



INSTALLATION/ OWNER'S MANUAL

AIR CONDITIONER

Please read this installation manual completely before installing the product. Installation work must be performed in accordance with the national wiring standards by authorized personnel only. Please retain this installation manual for future reference after reading it thoroughly.

BECON HVAC manager (AC Manager IV)
PACM4B000



P/NO : MFL68581202

www.lg.com

Explanatory Notes

Copyrights

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Product Features



AC Manager VI Configuration Integrates Easily.

- The integrated device management offers driver management, peak power control, demand control, and accumulated power divider.
- Status monitoring and control as shown in the plan.
- Operates indoor or outdoor groups on a schedule.
- Provides records of indoor use daily, weekly, or monthly.
- Report feature can be used to generate internal reports.



Other External Equipment Controls

- Works in conjunction with external equipment such as fire alarms, key tags, and lighting.
- Ability to link with ACP



Efficient Power Control

- Displays and manages the power usage of each room.
- Distributed power data can be saved or printed.
- Ability to control the outdoor unit capacity



Convenient Automation

- Switches between cooling and heating to reach the desired temperature of users.

How to Use This Guide

Please read from the beginning to the end of this User's Guide before using AC Manager VI. Also store this guide somewhere easily accessible.

Notations Used In This Guide

Keyboard Notation

- Keyboard strokes used by the system are marked by boldface text in angle brackets (< >).
Example: <Esc> Key
- Key combinations use the same format with the addition of a plus sign (+).
Example: <Ctrl+C> Key

Program UI Notation

- Control buttons displayed within the system are marked by boldface text in square brackets ([]).
Example: [OK], [Save]
- Option titles displayed in the program are marked by boldface text.
Example: **Start**, **Programs**

 MEMO

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Important Safety Precautions

The Important Safety Precautions shown in the following are to avoid potential injury or damage due to unexpected accidents, and to increase the lifetime of the product.



WARNING

If you don't follow the instructions, you could be injured or even killed.

- Keep the Lock Key out of reach of children. If a child happens to swallow it, see the doctor immediately.
- To prevent electric shock or fire, do not expose the Lock Key to water or humidity.
- Do not disassemble the Lock Key arbitrarily as it could cause electric shock.
- The Lock Key does not guarantee any use, which could result in injury or death due to impairment.



CAUTION

If you do not follow the instructions, you could have injury or property loss.

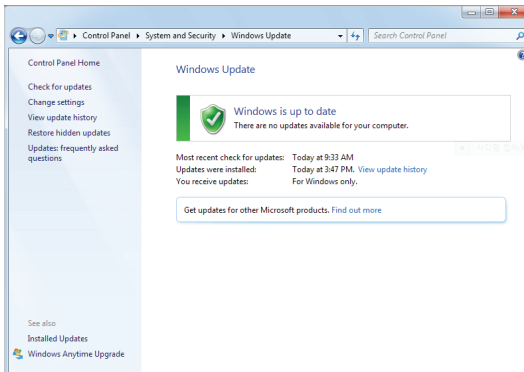
- The Lock Key could hurt your hands. Please use extreme care when using it.
- Never remove the Lock Key when you are using AC Manager.



CAUTION

To prevent installation error, Please check the status of your computer Windows.

- During Windows Update, if AC Manager VI installation starts, error occurs, and the installation cannot be completed.
- How to check: Start>Control Panel>System and Security>Windows Update





Preparation

The section provides the basic information required before using AC Manager VI.

Installation

This section explains the pre-installation preparations for AC Manager VI and how to install it.

Components

AC Manager VI packaging includes the following components as shown in the diagram. Please open the AC Manager VI package and verify that all components are included.



AC Manager VI
Installation DVD (User's Guide)



USB Authentication Key
(Hard Lock Key)



Quick Guide



CAUTION

If any product is used other than our standard product and a problem occurs, we don't take any responsibility regarding the problem. Please keep away from using other products.

Recommended Specifications

The recommended specifications for AC Manager VI are shown here.

Hardware	
CPU	Dual Core 2.4GHz or faster
System Memory	4 GB or more
Hard Disk Space	100 GB or more
OS	Windows XP/7/8/8.1
Resolution	1280 x 1024 or higher
Recommended Graphics	VGA: For NVidia, Geforce or later. For ATI, Radeon or later
ACP	ACP version 1.1.4p or higher

Installing AC Manager VI

Install AC Manager VI using the procedures outlined in this document.

Hardware Installation



AC Manager VI Software Installation (Client/Server)

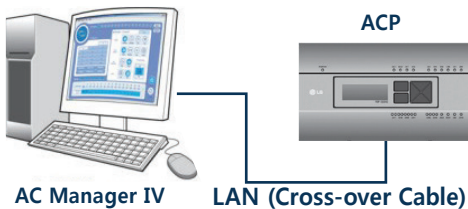
Hardware Installation

This section explains how to connect the computer to ACP to use AC Manager VI.

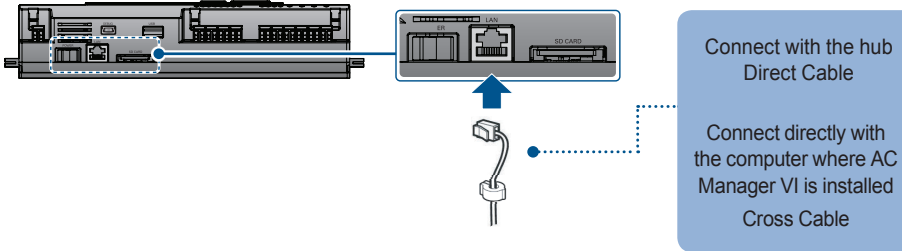
Connecting AC Manager VI to an ACP

Use these steps when installing AC Manager VI and connecting the ACP to the same computer.

1. Connect an Ethernet cross cable to the Ethernet port of the ACP.



2. Connect the other end of the Ethernet cross cable to the Ethernet port of the computer.
 - You should only use an Ethernet cross cable if you are connecting the computer (AC Manager VI) and the ACP without a hub. The ACP Ethernet terminal is located on the device as shown in the figure.



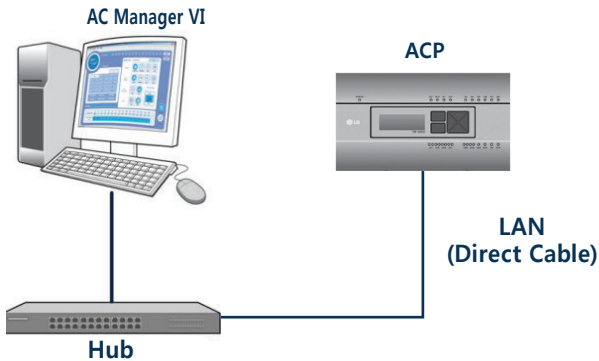
NOTES

Do not use the Ethernet cable before checking if it is a direct cable or cross cable. Use the LAN tester to examine the cable before connecting the cable.

Connecting AC Manager VI to multiple ACPs

Use these steps when connecting AC Manager VI to multiple ACPs by using a hub.

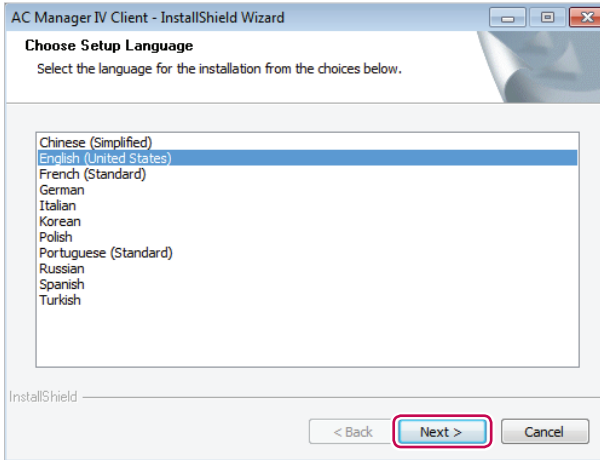
1. Connect each ACP to the hub with a standard Ethernet cable.



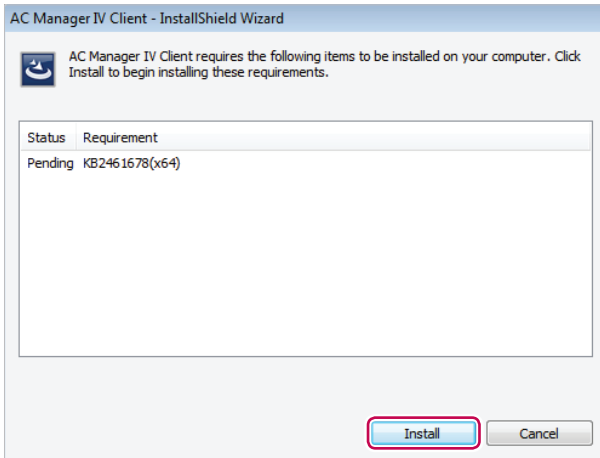
AC Manager VI software installation(Client)

This section explains how to install AC Manager VI software(Client).

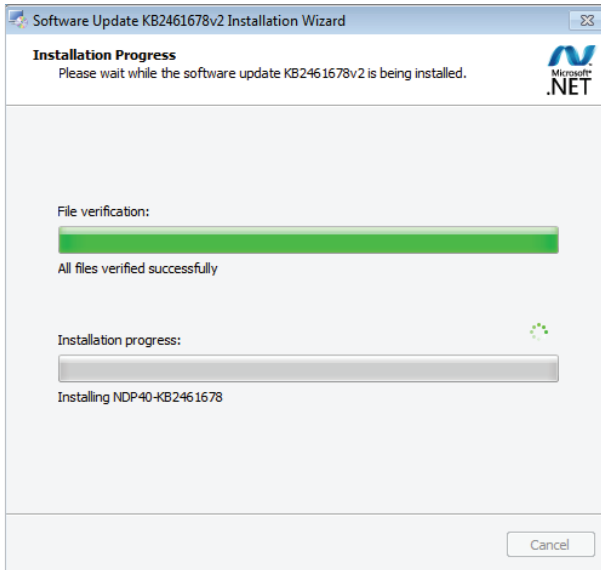
1. Double-click installation file.
2. Select the installation language and click **[Next>]** button.



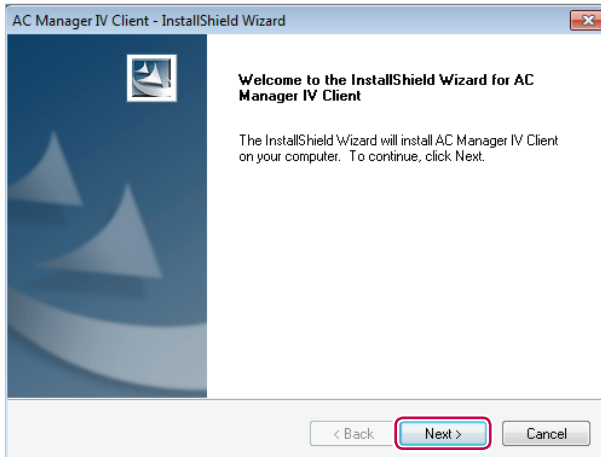
3. When the required components installation screen appears, click **[Install]** button.
 - This will begin the installation of the required components.



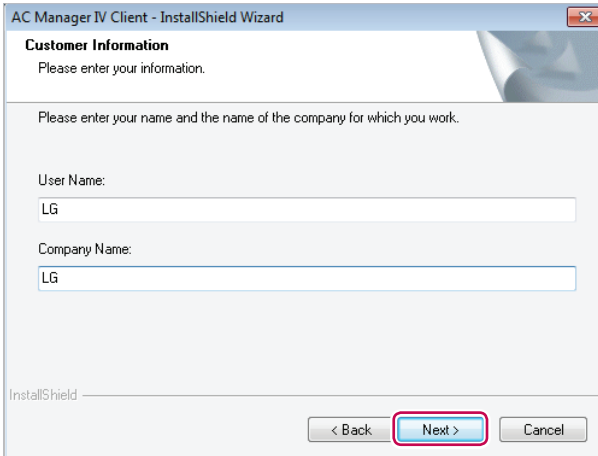
- When the required components installation is complete, AC Manager VI Client installation program prepares InstallShield Wizard. Please wait.



4. Once the AC Manager IV Client InstallShield Wizard appears, click **[Next >]** .



5. Enter the user information and click the **[Next >]** button.



AC Manager IV Client - InstallShield Wizard

Customer Information
Please enter your information.

Please enter your name and the name of the company for which you work.

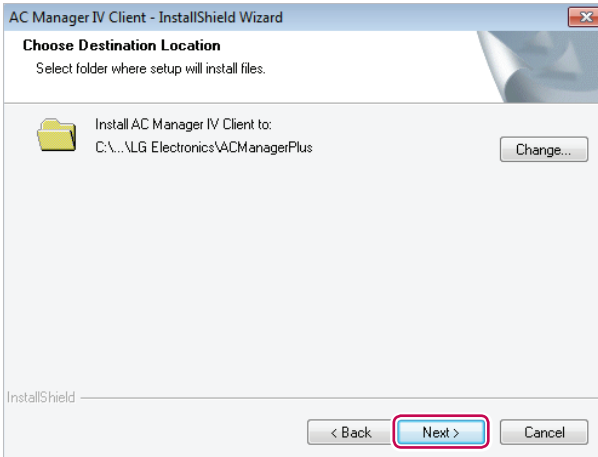
User Name:
LG

Company Name:
LG

InstallShield

< Back **Next >** Cancel

6. Confirm the install location of the AC Manager VI Client and click **[Next >]**.
- If you wish to change the install location, click **[Change...]** and set the desired location.



AC Manager IV Client - InstallShield Wizard

Choose Destination Location
Select folder where setup will install files.

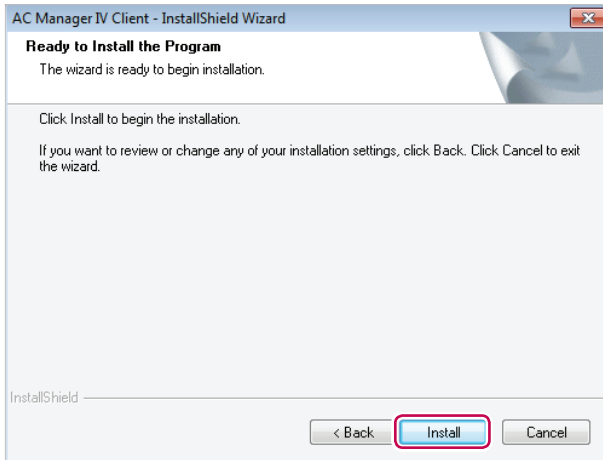
Install AC Manager IV Client to:
C:\...\\LG Electronics\VACManagerPlus

Change...

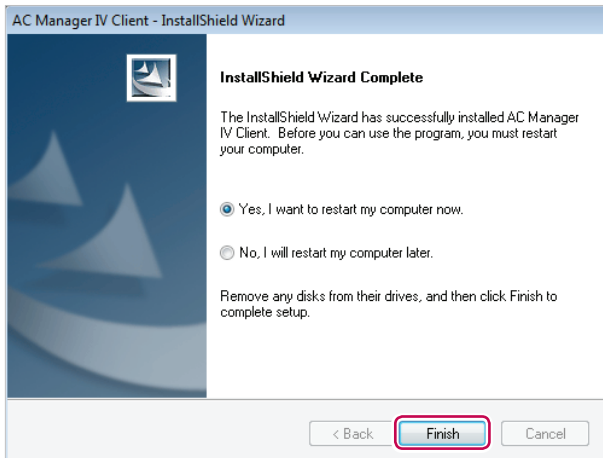
InstallShield

< Back **Next >** Cancel

7. To start the installation, click **[Install]**.
- The AC Manager VI Client will now be installed.



8. To restart the program, click **"Yes, I want to restart my computer now."** and click **[Finish]** button.
- Program installation is completed.



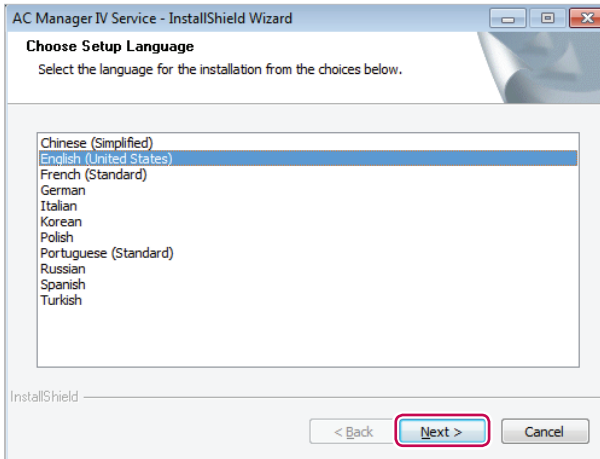
AC Manager VI software installation(Server)

**CAUTION**

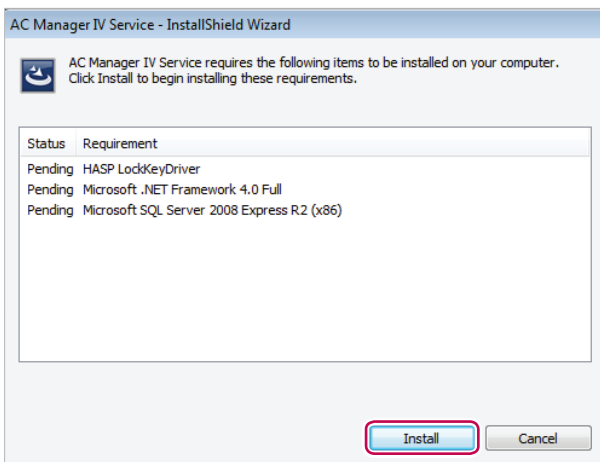
After the software installation is complete, Lock Key must to be inserted.

This section explains how to install AC Manager VI software(Server).

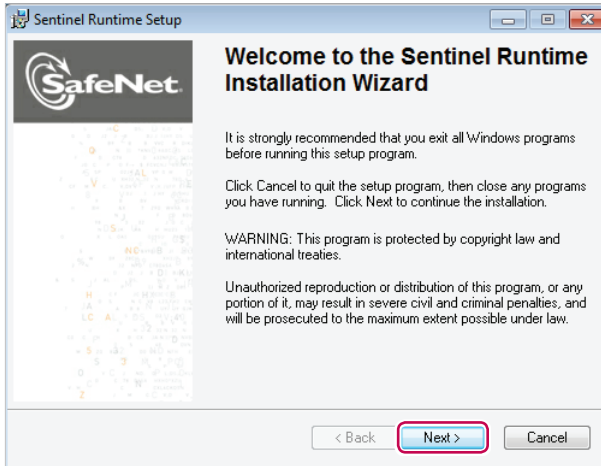
1. Double-click installation file.
2. Select the installation language and click **[Next>]** button.



3. When the required components installation screen appears, click **[Install]** button.
 - This will begin the installation of the required components.



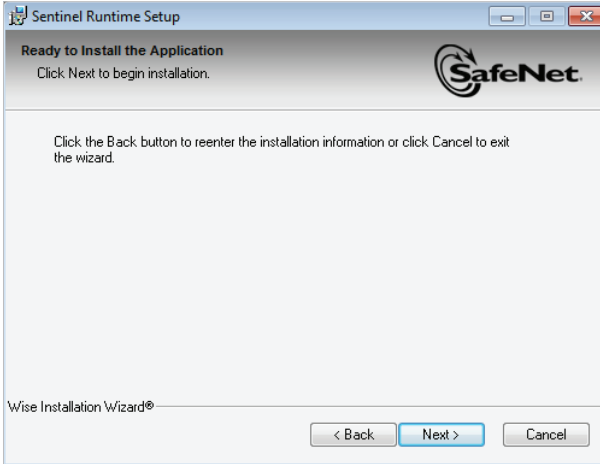
4. When the SafeNet installation screen appears, click [**Next >**] button.



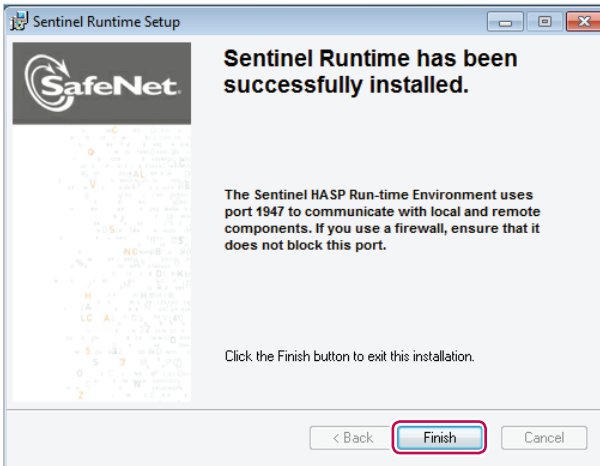
5. SafeNet License Agreement screen appears, click "I accept the license agreement", and click [**Next >**] button.



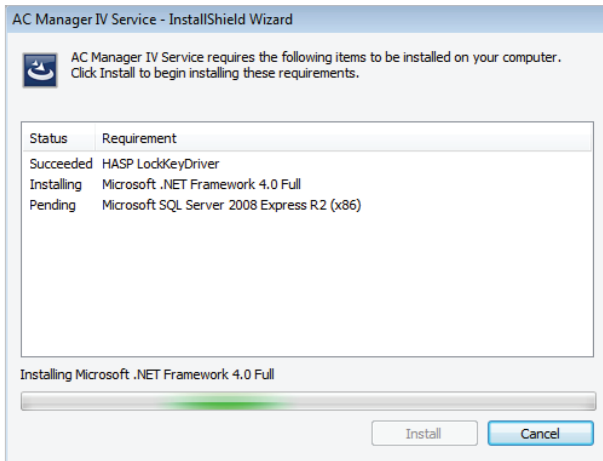
- This will begin the installation.



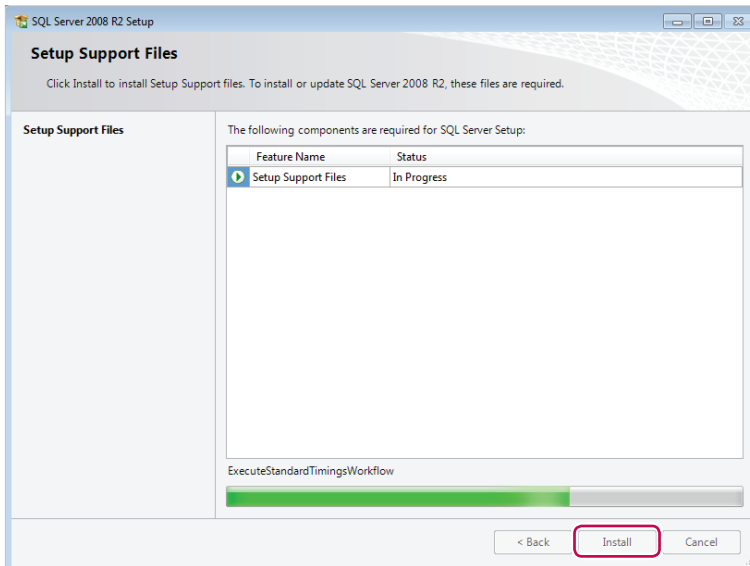
6. When the installation is complete, click **[Finish]** button.

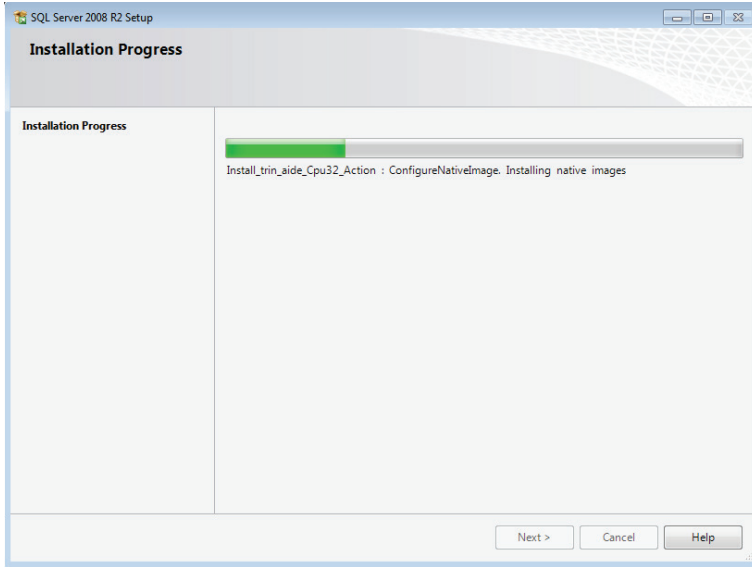


- This will start the installation of the following required components.

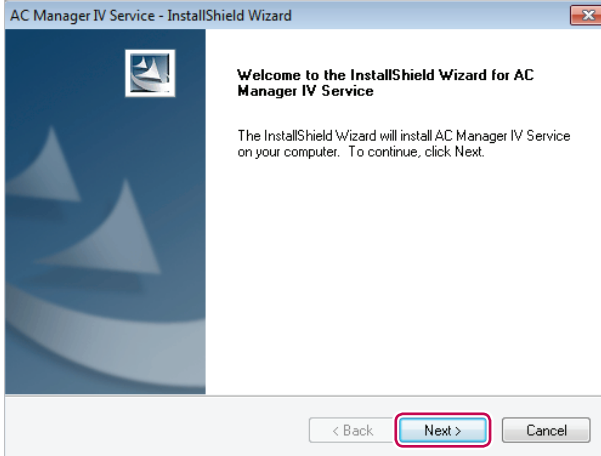


7. When Microsoft SQL Server 2008 Express R2 installation screen appears, click **[Install]** button.
 - When the required components installation is complete, AC Manager VI Server installation program prepares IntallShield Wizard. Please wait.





8. When AC Manager VI Service IntallShield Wizard screen appears, click **[Next(N)>]** button.



9. Input user information, and click **[Next(N)>]** button.

AC Manager IV Service - InstallShield Wizard

Customer Information
Please enter your information.

Please enter your name and the name of the company for which you work.

User Name:
LG

Company Name:
LG

InstallShield

< Back Next > Cancel

10. Check AC Manager VI Service installation location, and click **[Next(N)>]** button.

- To change installation location, click **[Change(C)...]** button, and designate the desired installation location.

AC Manager IV Service - InstallShield Wizard

Choose Destination Location
Select folder where setup will install files.

Install AC Manager IV Service to:
C:\...\LG Electronics\ACManagerPlus

Change...

InstallShield

< Back Next > Cancel

11. Set the database server and authentication method, and click **[Next(N)>]** button.

The screenshot shows the 'Database Server' step of the 'AC Manager IV Service - InstallShield Wizard'. The title bar reads 'AC Manager IV Service - InstallShield Wizard'. The main heading is 'Database Server' with the instruction 'Select database server and authentication method.' Below this, there are several input fields: 'Database server that you are installing to:' with a dropdown menu showing 'localhost' and a 'Browse...' button; 'Connect using:' with radio buttons for 'Windows authentication' (unselected) and 'SQL Server authentication using the Login ID and password below' (selected); 'Login ID:' with a text box containing 'sa'; 'Password:' with a masked text box of dots; and 'Name of database catalog:' with an empty text box and a 'Browse...' button. At the bottom, there are three buttons: '< Back', 'Next >' (highlighted with a red box), and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner.

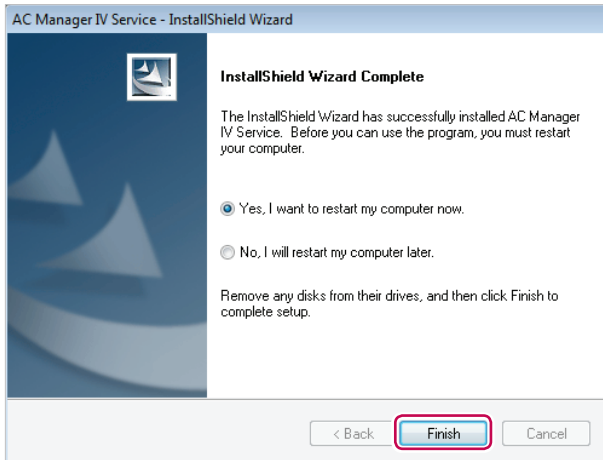
12. To start the installation, click **[installation(I)]** button.

- This will start AC Manager VI Service installation.

The screenshot shows the 'Ready to Install the Program' step of the 'AC Manager IV Service - InstallShield Wizard'. The title bar reads 'AC Manager IV Service - InstallShield Wizard'. The main heading is 'Ready to Install the Program' with the instruction 'The wizard is ready to begin installation.' Below this, there is a paragraph: 'Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.' At the bottom, there are three buttons: '< Back', 'Install' (highlighted with a red box), and 'Cancel'. The 'InstallShield' logo is visible in the bottom left corner.

13. To restart the program, click **"Yes, I want to restart my computer now."** and click **[Finish]** button.

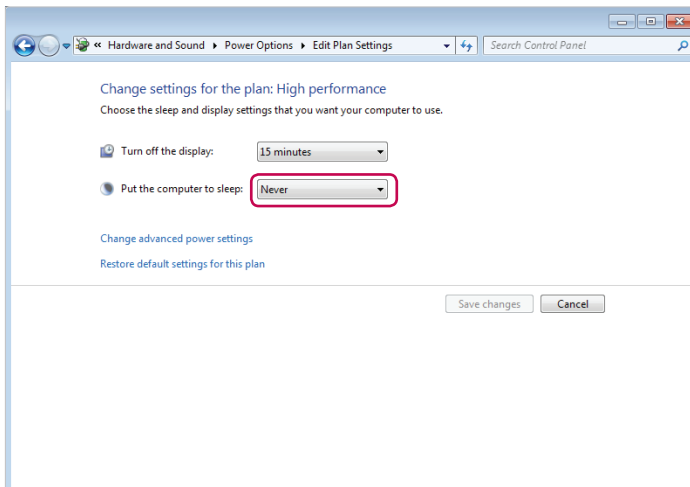
- Program installation is completed.



CAUTION

Check if the power saving mode of the computer is set.

- In Start>Control Panel>Hardware and Sound>Power Option>Change the time for the computer to switch to power saving mode, change the power saving mode to 'Never'.




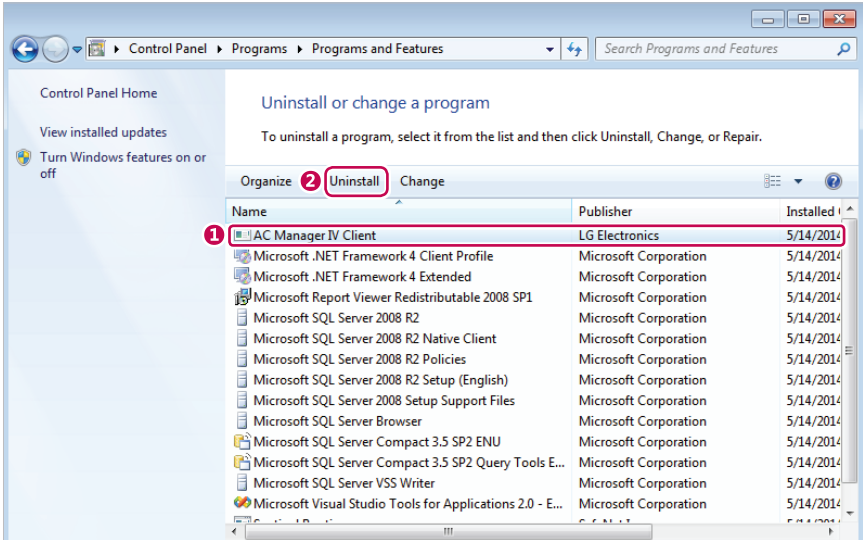
Deleting AC Manager VI (Windows 7)

This section explains how to delete AC Manager VI.

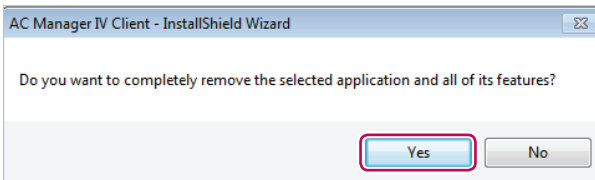
Delete AC Manager VI software(Client)

This section explains how to delete AC Manager VI software(Client).

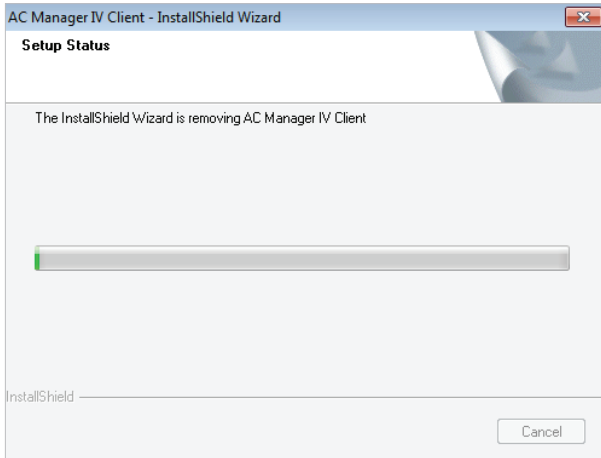
1.  > **Control Panel > Programs > Programs and Features.**
2. In the Uninstall or change a program window, highlight AC Manager VI Client and click **[Uninstall]**.



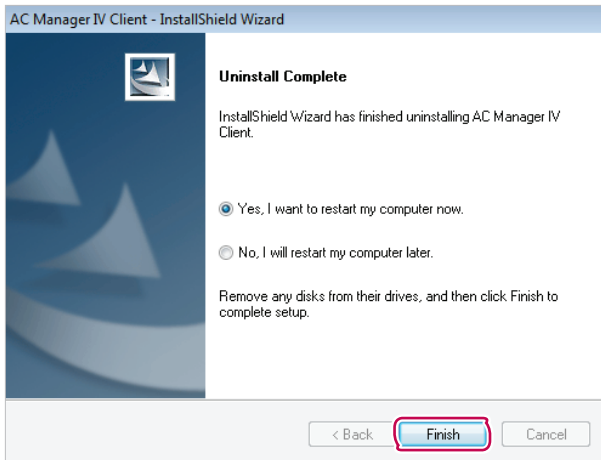
3. When you are prompted to confirm the removal, click **[Yes]**.



- This will start the removal.



4. To restart the program, click **"Yes, I want to restart my computer now."** and click **[Finish]** button.
 - This will finish the program removal.




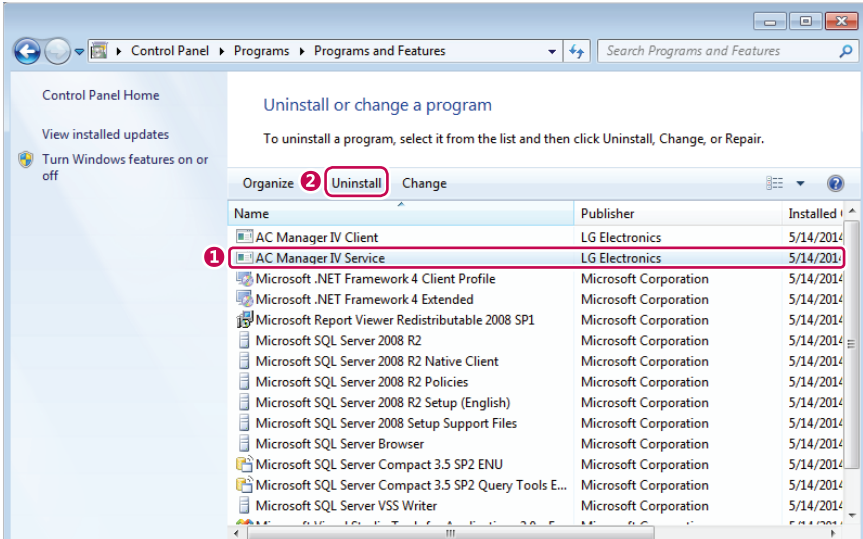
NOTES

If you delete AC Manager VI, all data will also be deleted.

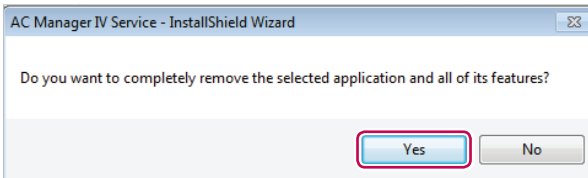
Delete AC Manager VI software(Server)

This section explains how to delete AC Manager VI software(Server).

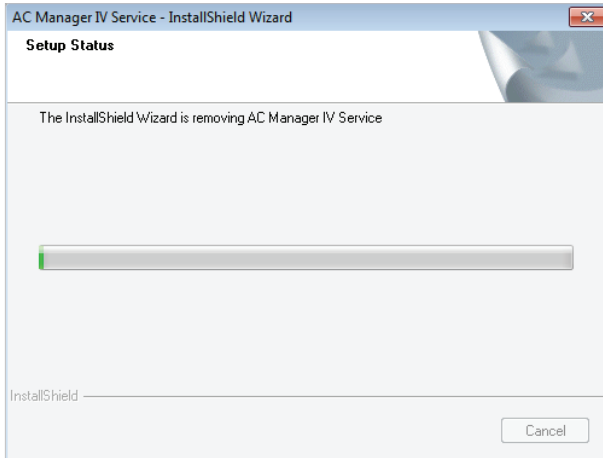
1.  > **Control Panel > Programs > Programs and Features.**
2. In the Uninstall or change a program window, highlight AC Manager VI Server and click **[Uninstall]**.



3. When you are prompted to confirm the removal, click **[Yes]**.

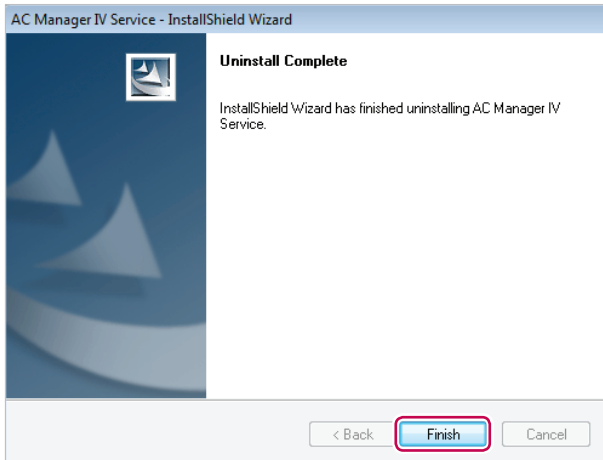


- This will start the removal.



4. To restart the program, click "**Yes, I want to restart my computer now.**" and click **[Finish]** button.

 - This will finish the program removal.



NOTES

If you delete AC Manager VI, all data will also be deleted.

Starting and Closing the Program

This section explains how to start and close AC Manager VI.

Starting the Program

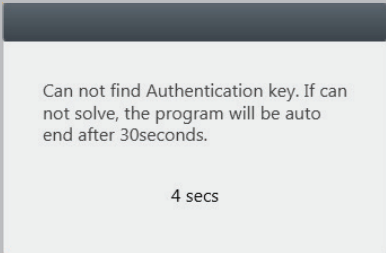
This section explains how to start AC Manager VI.

1. Connect the authentication key to a USB port on the computer with AC Manager VI.
 - If you attempt to start the program without the authentication key attached, a warning appears. Insert the authentication key and start the program again.





NOTES

- All functions of AC Manager VI are determined by the approval of the authentication key. Do not remove the authentication key from the computer while operating AC Manager VI.
- If the authentication key is removed while operating the program, the following warning message pop ups. If you insert the authentication within 30 seconds, the warning window is turned off and the program begins to operate normally.

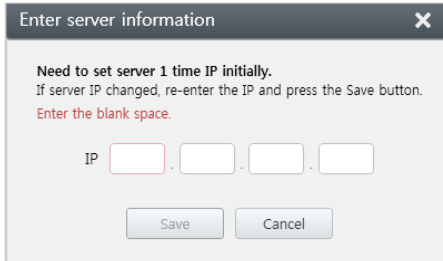


Can not find Authentication key. If can not solve, the program will be auto end after 30seconds.

4 secs

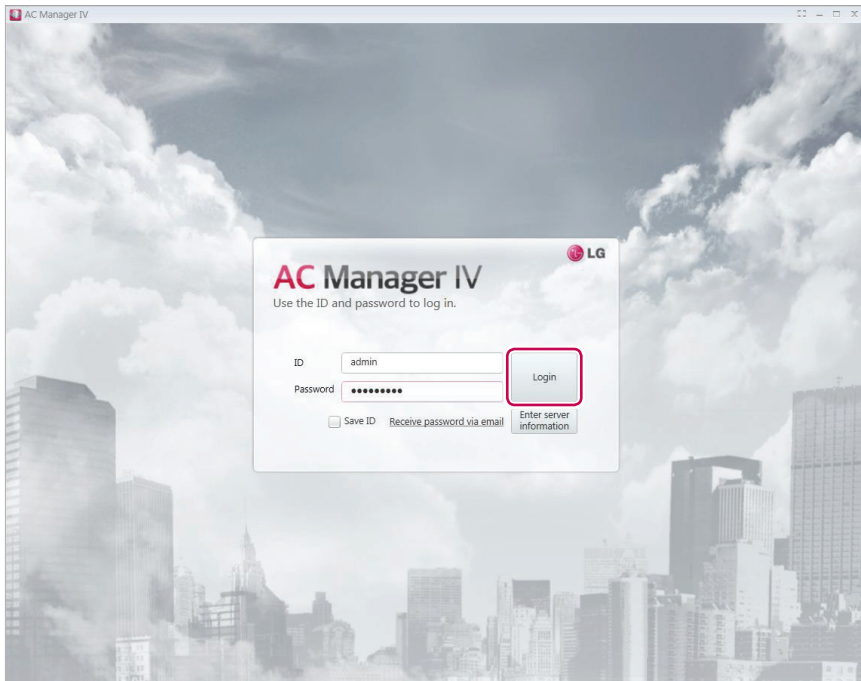
2.  > **All Programs > LG Electronics > AC Manager VI Client > Executing AC Manager VI.**
 - Alternatively, double-click the shortcut icon  on your desktop.
 - AC Manager VI Program will start.
3. In the login window, click **[Enter server information]**.

4. After entering the server's IP address, click **[Save]**.
 - This IP address may vary depending on which computer you are logging in from. If this is the server PC, enter the loopback address (127.0.0.1). If this is a client PC, enter the IP address of the server PC.



The screenshot shows a dialog box titled "Enter server information" with a close button (X) in the top right corner. The text inside reads: "Need to set server 1 time IP initially. If server IP changed, re-enter the IP and press the Save button. Enter the blank space." Below the text is an IP address input field consisting of four separate boxes separated by dots. The first box is highlighted with a red border. At the bottom of the dialog are two buttons: "Save" and "Cancel".

5. After entering your ID and password in the login window, click **[Login]**.

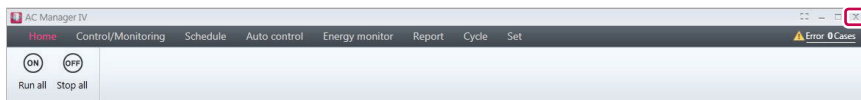


The screenshot shows the AC Manager IV login window. The title bar reads "AC Manager IV". The main content area has a background image of a city skyline under a cloudy sky. In the center, there is a white login form with the LG logo in the top right corner. The form contains the text "AC Manager IV" and "Use the ID and password to log in." Below this are two input fields: "ID" with the value "admin" and "Password" with masked characters "*****". To the right of the password field is a "Login" button, which is highlighted with a red border. At the bottom of the form are three options: a checkbox for "Save ID", a link for "Receive password via email", and a button for "Enter server information".

Closing the Program

You can exit and close AC Manager VI as follows.

1. From the AC Manager VI program, click the **[X]** in the right top corner.



Using the Program

This section explains how to use AC Manager VI.

Home

You can check operation status of the devices installed to AC Manager VI, today's schedule, and whether automatic control is applied. You can also control start/stop of all indoor units.

Screen Configuration and Features

This section explains the Home screen configuration and features.

The screenshot shows the AC Manager IV Home screen. At the top, there is a navigation bar with tabs: Home, Control/Monitoring, Schedule, Auto control, Energy monitor, Report, Cycle, and Set. A status indicator shows 'Error 0 Cases'. Below the navigation bar, there are 'ON' and 'OFF' buttons, and 'Run all' and 'Stop all' buttons, with a 'Run' button below them. This area is highlighted with a red box and a circled '1'. The main content area is titled 'AC Manager IV' and shows a summary of device counts: All, 59 Indoor Unit, 20 ERV, 10 AHU, 10 AWHP, 10 Chiller, and 1 ON/OFF, 4 DI, 2 DO, 2 AO. Below this, there are tabs for 'Total status', 'Managed Group', and 'Location Group'. The 'Operation Status' section features a donut chart showing 11 cases in grey and 48 cases in green. To the right is a 'Status of Device-specific' table. This area is highlighted with a red box and a circled '2'. Below the chart, there are two sections: 'Today's Schedule Sunits' and 'Auto control'. The 'Today's Schedule Sunits' section shows a list of schedules with times and actions. The 'Auto control' section shows various control parameters like Peak control, Temperature limit, Auto Change over, Time Limit, and Device Interlock. This area is highlighted with a red box and a circled '4'. A circled '3' points to the 'Today's Schedule Sunits' section. A circled '4' points to the 'Auto control' section.

Indoor Unit	ERV	AHU	AWHP	Chiller
Run	11	10	10	10
Stop	9	0	0	0
Error	0	0	0	0

ON/OFF	DI	DO	AI	AO
Run	4	0	2	0
Stop	0	2	0	0
Error	0	0	0	0

No.	Item	Description
①	Operation	Run/Stop of all indoor units

No.	Item	Description
①	Operation	Run/Stop of all indoor units

No.	Item	Description
②	Operation status	<ul style="list-style-type: none">• Overall operation status<ul style="list-style-type: none">- Check operation status(run/stop/error) of the devices installed to AC Manager VI- Classify by the number of the devices• Status by each management group<ul style="list-style-type: none">- Check status of each management group designated by the user• Status by each location group<ul style="list-style-type: none">- Check status of each location group designated by the user
③	Today's schedule	View up to 5 schedules list
④	Automatic control	Whether it is in automatic control operation

Control/Monitoring

This section explains how to control the device and monitor the control status of the device.

Screen Configuration and Features

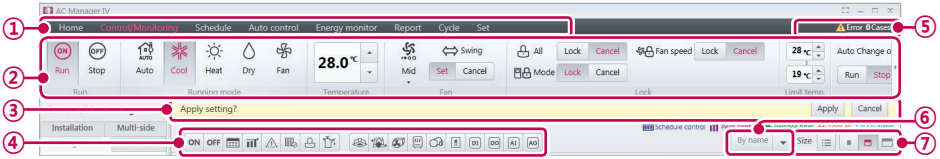
The screen configuration and features of the Control/Monitoring menu screen are as follows.

The screenshot shows the AC Manager IV interface. The top bar includes tabs for Home, Control/Monitoring, Schedule, Auto control, Energy monitor, Report, Cycle, and Set. The main control area features buttons for Run, Stop, Auto, Cool, Heat, Dry, and Fan, and a large temperature display of 28.0°C. Below this is a 'Control/Monitoring' section with a left sidebar for 'Management' and 'Location', and a main area displaying a grid of 30 indoor units. Each unit card shows its current temperature, target temperature, and fan speed. At the bottom, there is a 'Use status' section with a progress bar and a 'Working history' table.





No.	Item
①	Toolbars
②	Device List Tab
③	Content Display
④	Summary Display

Toolbars

This section explains the toolbars of the Control/Monitoring menu.



No.	Item	Description
①	AC Manager VI Menu Tab	Service Menu for AC Manager VI.
②	Toolbox Controls	Changes according to devices attached and other variables. (For more information, refer to the Toolbox Controls per Device on page 30.)
③	Apply/Cancel	Changes in the control status triggers this.
④	Content Filter Button	<p>Allows you to filter content in the Content Display area by device type or status. Click the boxes of each filter to see or hide the corresponding content.</p> <ul style="list-style-type: none"> • : Show active devices. • : Show inactive devices. • : Show devices with a schedule. • : Show devices controlled by peak and demand. • : Show devices with errors. • : Show devices in need of a filter replacement. • : Show devices with lock settings. • : Show Oil Alarm devices. • : Show indoor devices. • : Show devices with ventilators or direct expansions. • : Show AHU devices. • : Show AWHP / Hydro kit devices. • : Show Chiller devices. • : Show On/Off devices. • : Show DI devices. • : Show DO devices. • : Show AI devices. • : Show AO devices.

No.	Item	Description
⑤	Error Alarm	<ul style="list-style-type: none"> Shows the number of devices with errors. When selected, it changes to Report > Working history.
⑥	Sort Selection	<ul style="list-style-type: none"> By name: Sorts the devices by their names. By address: Sorts the devices by their addresses. By device: Sorts by equipment type. Whether running: Sorts by status; "On", "Error", or "Off".
⑦	Button to see by each device icon type	<p>Adjust the size of the device viewing icon appearing in the contents area</p> <ul style="list-style-type: none"> : View list : View small list : View normal list : View big list



NOTES

If the error code is displayed on the AC Manager VI, please double click to view the details for description of the error.

Toolbox Controls per Device

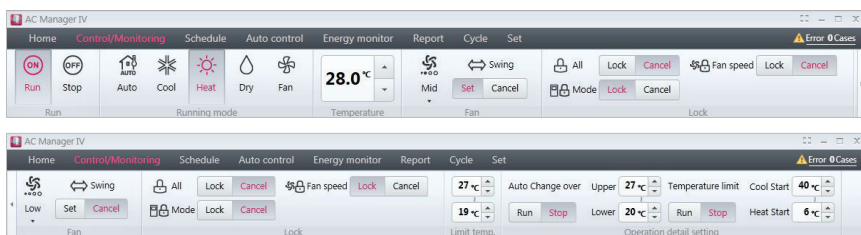
registered device, the menu of the toolbox controls may differ. The following explains the toolbox controls per device.



NOTES

The exact control limit for a device may differ from the actual device. Please be sure to refer to the manual for the device.

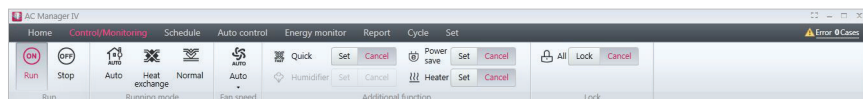
Indoor Device



Item	Description
Run	<ul style="list-style-type: none"> • [Run] Button: Starts the operation of the device. • [Stop] Button: Stops the operation of the device.
Running mode	<ul style="list-style-type: none"> • [Auto] Button: Changes to Auto Mode. • [Cool] Button: Changes to Cooling Mode. • [Heat] Button: Changes to Heating Mode. • [Dry] Button: Dehumidifies during rainy seasons or whenever humidity is high. You cannot set the temperature in this mode. • [Fan] Button: Purifies the air. You cannot set the temperature in this mode.
Temperature	Click [▲] / [▼] to set the temperature.
Fan	<ul style="list-style-type: none"> • Fan: Selects the fan speed. <ul style="list-style-type: none"> - [Auto] Button: Loops from Low to Medium to High - [High] Button: Fast fan speed. - [Mid]: Medium fan speed. - [Low] Button: Slow fan speed. • Swing [Set/Cancel] Button: Turn on or off automatic oscillation of the fan.

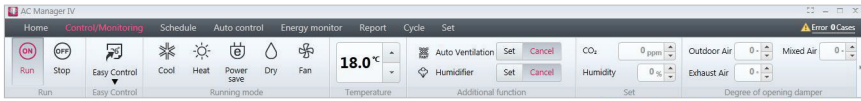
Item	Description
Lock	<ul style="list-style-type: none"> • All [Lock/Cancel] Button: Enables/disables remote control for all features. • Mode [Lock/Cancel] Button: Enables/disables remote control for mode selection. • Temperature [Lock/Cancel] Button: Enables/disables remote control for temperature setting. • Fan speed [Lock/Cancel] Button: Enables/disables remote control for fans.
Limit temp.	<p>Click [▲]/[▼] to set the temperature limit. This prevents a user from setting the indoor temperature outside the defined range.</p>
Operation detail setting	<ul style="list-style-type: none"> • Auto change over: It is the function to automatically change over to cooling operation when indoor temperature is over the upper limit temperature, and to heating operation when indoor temperature is below the lower limit temperature. (It is only supported by cooling/heating dual function outdoor unit.) <ul style="list-style-type: none"> - [Run] button: Set automatic change over. - [Stop] button: Reset automatic change over. • Lower: Touch [▲]/[▼] button to set lower limit temperature (18 °C~30 °C). • Upper: Touch [▲]/[▼] button to set upper limit temperature (18 °C~30 °C). • Temperature limit: It is the function to maintain the temperature of the space where the device is installed within certain boundary. (It is only supported by cooling/heating dual function outdoor unit.) <ul style="list-style-type: none"> - [Run] button: Set temperature limit. - [Stop] button: Reset temperature limit. • Cool Start: Touch [▲]/[▼] button to set cooling operation start temperature (21 °C~40 °C). • Heat Start: Touch [▲]/[▼] button to set heating operation start temperature (1 °C~20 °C).

■ Ventilator or Direct Expansion Ventilator



Item	Description
Run	<ul style="list-style-type: none"> • [Run] Button: Starts the operation of the device. • [Stop] Button: Stops the operation of the device.
Running mode	<ul style="list-style-type: none"> • [Auto] Button: Changes to Auto Mode. • [Heat exchange] Button: Air supply and emissions are all ventilated through the heat exchanger. • [Normal] Button: Ventilates emissions without passing through the heat exchanger.
Temperature	<p>(Only applicable to the Direct Expansion Ventilator.)</p> <p>Click [▲]/[▼] to set the temperature.</p>
Fan speed	<ul style="list-style-type: none"> • Auto : Loops from Low to High to Very High. <ul style="list-style-type: none"> - Users cannot select this mode. - When set to sleep/rapid mode, fans are automatically set to Auto mode. - When sleep/rapid mode is disabled, fans are automatically set to High. - Sleep/rapid mode is disabled if Very High, High, or Low is selected while Auto operation mode is active. • Super High: Maximum fan speed. • High: Fast fan speed. • Low: Slow fan speed.
Air Conditioner	<p>(Only applicable to the Direct Expansion Ventilator.)</p> <ul style="list-style-type: none"> • [Off] Button: Disables air conditioning for the Direct Expansion Ventilator. • [Cool] Button: Changes to cooling mode. • [Auto] Button: Automatically changes the mode based on indoor conditions. • [Heat] Button: Changes to heating mode.
Additional function	<ul style="list-style-type: none"> • Quick [Set/Cancel] Button: Turns Rapid feature on/off. (If Rapid is enabled, Sleep is disabled.) • Humidifier [Set/Cancel] Button: Turns the Humidify feature on/off. (Only when Air Conditioning is in Heating mode.) • Power save [Set/Cancel] Button: Turns Sleep mode on/off. (If Sleep is enabled, Rapid is disabled.) • Heater [Set/Cancel] Button: Turns the Heater feature on/off.
Lock	<p>All [Lock/Cancel] Button: Enables/disables remote control for all features.</p>

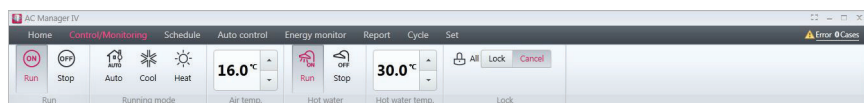
AHU



Item	Description
Run	<ul style="list-style-type: none"> • [Run] Button: Starts the operation of the device. • [Stop] Button: Stops the operation of the device.
Easy control	<p>Press [Easy control ▼] button to add/edit/delete easy control mode (user mode).</p> <ul style="list-style-type: none"> • You can set up to 4 easy control modes. • The control commands applied as the set easy control mode are not saved in the control tool box.
Running mode	<ul style="list-style-type: none"> • [Cool] Button: Changes to Cooling Mode. • [Heat] Button: Changes to Heating Mode. • [Fan] Button: Purifies the air. You cannot set the temperature in this mode. • Additional options will appear under Operating Modes after registering an AHU. <ul style="list-style-type: none"> - [Power save] Button: Reduces energy consumption by operating in the most efficient way. Emission air is greater than air supply to emit remove air from indoors more effectively. - [Dry] Button: Dehumidifies during rainy seasons or whenever humidity is high. You cannot set the temperature in this mode.
Temperature	Click [▲]/[▼] to set the temperature.
Additional function	<ul style="list-style-type: none"> • These options only show when add-ons for the AHU are installed. • Auto Ventilation [Set/Cancel] Button: Turns Automatic Ventilation on/off. • Humidifier [Set/Cancel] Button: Turns Humidification on/off.
Set	<ul style="list-style-type: none"> • CO₂: Use [▲]/[▼] to set the desired carbon dioxide emissions from 500 ppm to 1 500 ppm in intervals of 100 ppm.(CO₂ is only settable in Auto Vent) • Humidity: Use [▲]/[▼] to set the desired humidity from 40 % to 60 % in intervals of 5 % (the humidify is only settable in the humidity setting).

Item	Description
Degree of opening damper	<ul style="list-style-type: none"> • Outdoor Air: Use [▲]/[▼] to set the air intake damper opening value from 0 to 90 SDgr in intervals of 1SDgr. • Exhaust Air: Use [▲]/[▼] to set the emission damper opening value from 0 to 90 SDgr in intervals of 1SDgr. • Mixed Air: Use [▲]/[▼] to set the mixer damper opening value from 0 to 90SDgr in intervals of 1SDgr (the damper opening value is only setttable in the Cooling/Heating Fan modes). <p>*Set > System Settings > Basic Setting > If 'Setting Damper' button is 'Set', it is operate<Outdoor Air(OA)=Exhaust Air(EA), Outdoor Air(OA)+Mixed Air(MIX)=90></p>
Lock	All [Lock/Cancel] Button: Enables/disables remote control for all features.

■ AWHP / Hydro kit



Item	Description
Run	<ul style="list-style-type: none"> • [Run] Button: Starts the operation of the device. • [Stop] Button: Stops the operation of the device.
Running mode	<ul style="list-style-type: none"> • [Auto] Button: Changes to Auto Mode. • [Cool] Button: Changes to Cooling Mode. • [Heat] Button: Changes to Heating Mode.
Outlet water temperature*	(Only operates on Cooling/Heating modes.) <ul style="list-style-type: none"> • Water temperature setting for underfloor cooling and heating. • Click [▲]/[▼] to set the temperature for Cooling and Heating modes.
Air Temp.*	(Only operates on Cooling/Heating modes.) Click [▲]/[▼] to set the indoor air temperature.
Hot water	<ul style="list-style-type: none"> • [Run] Button: Start hot water operation. • [Stop] Button: Stop hot water operation.
Hot water temp.	Click [▲]/[▼] to set the water heater temperature.
Lock	All [Lock/Cancel]: Enables/disables remote control for all features.

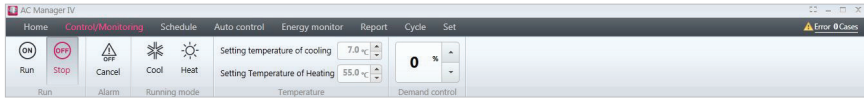
* When setting the AWHP device, the selected temperature is shown. (Refer to **AWHP on page 108**)



NOTES

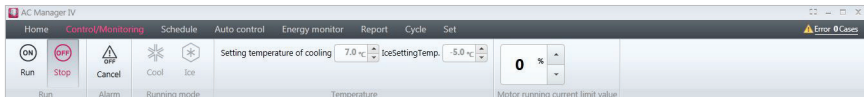
Chiller is optional feature, it can not be supported.

■ Scroll chiller



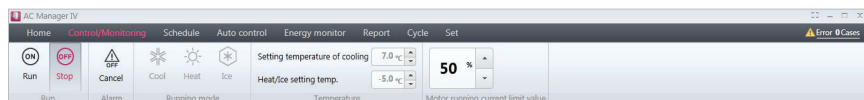
Item	Description
Run	<ul style="list-style-type: none"> • [Run] Button: Starts the operation of the device. • [Stop] Button: Stops the operation of the device.
Alarm	[Cancel] button: Reset alarm in the device.
Running mode	(It is only shown when the device supports the corresponding mode.) <ul style="list-style-type: none"> • [Cool] button: Change over to cooling mode. • [Heat] button: Change over to heating mode.
Temperature	<ul style="list-style-type: none"> • Set load water outlet temperature for indoor cooling/heating. • Press [▲]/[▼] button to set cooling mode and heating mode temperatures.
Demand control	Press [▲]/[▼] button to set demand limit ratio.

■ Screw chiller



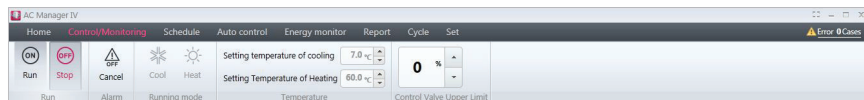
Item	Description
Run	<ul style="list-style-type: none"> • [Run] Button: Starts the operation of the device. • [Stop] Button: Stops the operation of the device.
Alarm	[Cancel] button: Reset alarm in the device
Running mode	Operation mode cannot be controlled. Control of the set temperature of the monitored operation mode.
Temperature	<ul style="list-style-type: none"> • Set load water outlet temperature for indoor cooling/ice making. • Press [▲]/[▼] button to set cooling mode and ice making mode temperatures.
Motor running current limit value	Press [▲]/[▼] button to set motor current limit ratio.

Turbo chiller



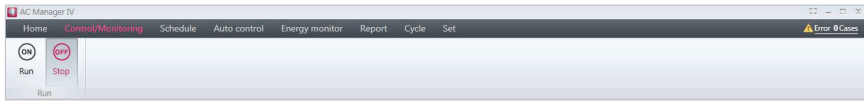
Item	Description
Run	<ul style="list-style-type: none"> • [Run] Button: Starts the operation of the device. • [Stop] Button: Stops the operation of the device.
Alarm	[Cancel] button: Reset alarm in the device.
Running mode	Operation mode cannot be controlled. Control of the set temperature of the monitored operation mode.
Temperature	<ul style="list-style-type: none"> • Set load water outlet temperature for indoor cooling/heating/ice making. • Press [▲]/[▼] button to set cooling mode and heating/ice making mode temperatures.
Motor running current limit value	Press [▲]/[▼] button to set motor current limit ratio.

Absorb chiller



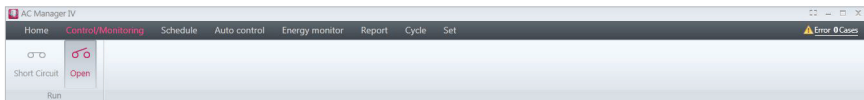
Item	Description
Run	<ul style="list-style-type: none"> • [Run] Button: Starts the operation of the device. • [Stop] Button: Stops the operation of the device.
Alarm	[Cancel] button: Reset alarm in the device
Running mode	Operation mode cannot be controlled. Control of the set temperature of the monitored operation mode.
Temperature	<ul style="list-style-type: none"> • Set load water outlet temperature for indoor cooling/heating. • Press [▲]/[▼] button to set cooling mode and heating mode temperatures.
Control Valve Upper Limit	Press [▲]/[▼] button to set control valve upper limit ratio.

On/Off device



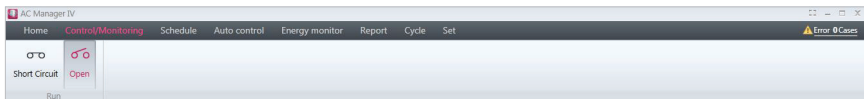
Item	Description
Run	<ul style="list-style-type: none"> • [Run] Button: Starts the operation of the device. • [Stop] Button: Stops the operation of the device.

DI



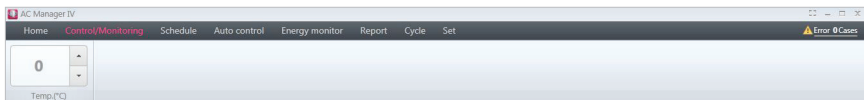
Item	Description
Run	<ul style="list-style-type: none"> • [Short Circuit] Button: Short signal output. • [Open] Button: Open signal output.

DO



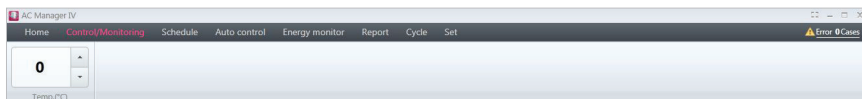
Item	Description
Run	<ul style="list-style-type: none"> • [Short Circuit] Button: Short signal output. • [Open] Button: Open signal output.

AI



Item	Description
Temperature	Press [▲] / [▼] button to set the desired temperature.

■ AO



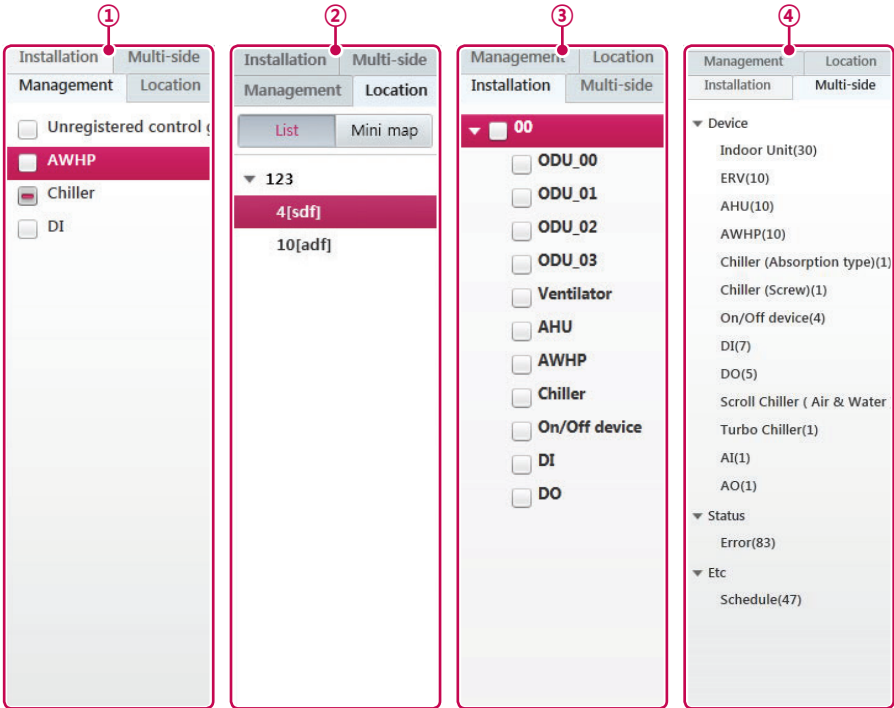
Item	Description
Temperature	Press [▲]/[▼] button to set the desired temperature.

**NOTES**

Control tool box text and unit are shown variably for ACS I/O devices according to the usage setting.

Device List Tab

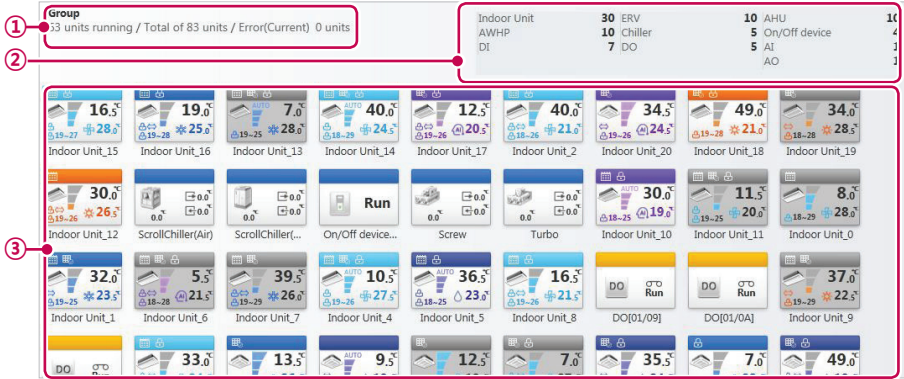
Explains the Tab of Device List.



No.	Item	Description
①	Management	List of management devices for user convenience.
②	Location	<ul style="list-style-type: none"> • A floor plan showing control and management for each device. • Includes a mini-map.
③	Installation	Provides information on all connected devices.
④	Multi-side	<ul style="list-style-type: none"> • A list sorted into three groups: Devices, Status, and Other. • Displays histories based on the selected items.

Content Display






The setting status of a device is displayed as follows.




No.	Item	Description
①	Group Display	Displays the management group name, number of active devices, number of installed devices and number of errored devices.
②	Installed Device Count	Displays the number of installed devices in each group. (Set or Cancel this under Set .)
③	Content Details	<ul style="list-style-type: none"> • Large icon <ul style="list-style-type: none"> ① Device status icon ② Device icon / operation status ③ Current temp / current temp / operation mode ④ Device address • Medium icon <ul style="list-style-type: none"> ① Device status icon ② Device icon / operation status ③ Current temp / current temp / operation mode • Small icon <ul style="list-style-type: none"> Device icon / operation status / operation mode • List: Displays all attributes of the devices in the group.

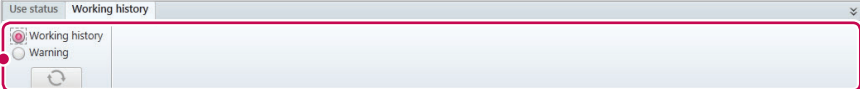
Content Display Icons

Device Status Icons

Icon		Status
Enlarge / Normal	Small	
 Schedule control	-	Schedule control
 Peak control	-	Peak control
 Replace filter	-	Replace filter
 Lock all	-	Lock all
 Oil alarm	-	Oil alarm

Summary Display

① 

② 

No.	Item	Description
①	Use status	Shows the current status of the selected device.
②	Working history	Shows the operation history of the device.

Device Control

You can control the registered device by setting it to the desired state.

1. In the menu bar at the top, click **Control/Monitoring**.
2. Click the desired tab in the Device List.

















Item	Description
Management	List of management devices for user convenience.
Location	<ul style="list-style-type: none"> • A floor plan showing control and management for each device. • Includes a mini-map.
Installation	Provides information on all connected devices.
Multi-side	<ul style="list-style-type: none"> • A list sorted into three groups: Devices, Status, and Other. • Displays histories based on the selected items.

3. Select the device you wish to manage in the list.
 - You can control multiple devices at the same time. Drag selected devices to the Content Display. Hold **<Ctrl>** to individually select multiple devices. If you want to choose all devices in a group, check the check box for the selected group. Depending on the types of devices chosen, the control box is limited.
4. Use the Toolbox to set the control state of the selected device.
5. When you have completed making changes, click **[Apply]**.

Monitoring Devices

You can check the control state of registered devices.

1. In the menu bar at the top, click **Control/Monitoring**.
2. Click the desired tab in the Device List.
3. Click the filter button of the device type or status in the Content Display.
 - Multiple filters can be selected, excluding ON or OFF.
 - Select the content information of the corresponding part.

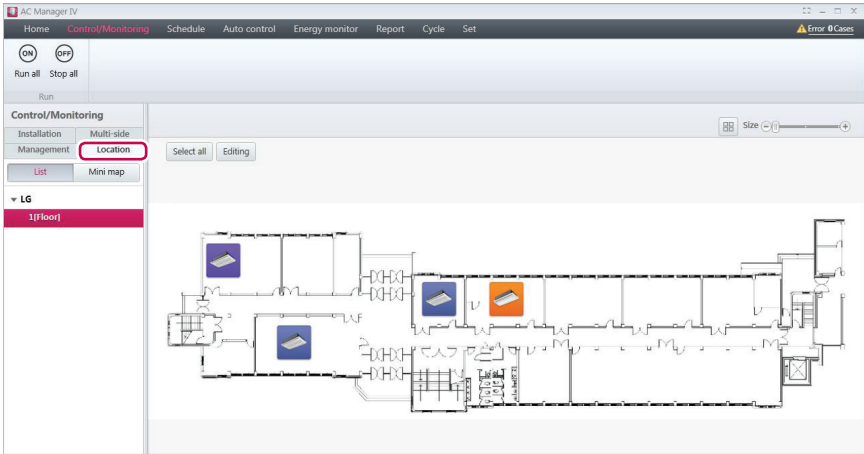
Item	Description
<input type="checkbox"/> ON	Show active devices(<input type="checkbox"/> OFF cannot select with)
<input type="checkbox"/> OFF	Show inactive devices(<input type="checkbox"/> ON cannot select with)
	Show devices with a schedule.
	Show devices controlled by peak and demand.
	Show devices with errors.
	Show devices in need of a filter replacement.
	Show devices with lock settings.
	Show Oil Alarm devices.
	Show indoor devices.
	Show devices with ventilators or direct expansions.
	Show AHU devices.
	Show AWHP / Hydro kit devices.
	Show Chiller devices.
	Show On/Off devices.
	Show DI devices.
	Show DO devices.
	Show AI devices.
	Show AO devices.

4. Please see the device information in the Content Display.
 - You can reduce/enlarge the size of the device icons with the slider.
5. To set the control status details of a device, double-click its icon.
 - This moves you to the detailed information display of the selected device.
6. If you want to return to the monitoring screen, click the device list or click **[Go to Main menu]**.

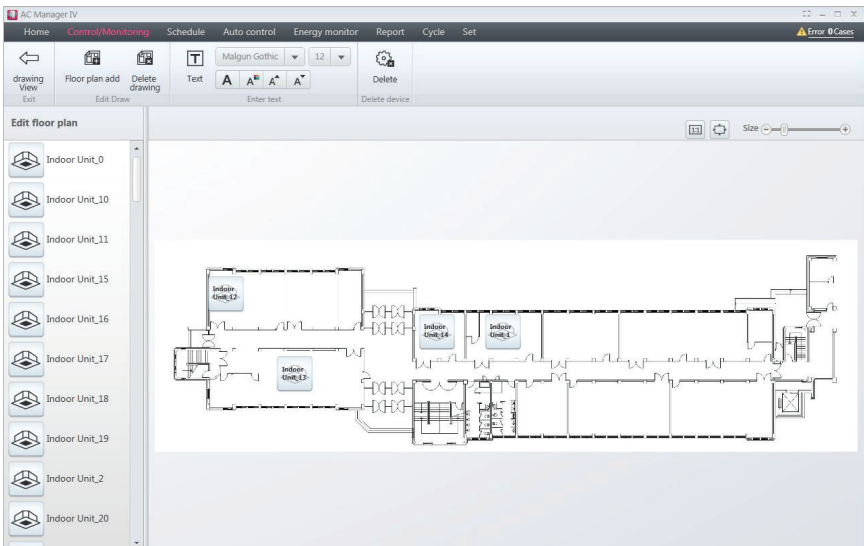
Editing the Floor Plan

You may edit the floor plan by selecting the **Location** tab in the Control/Monitoring menu.

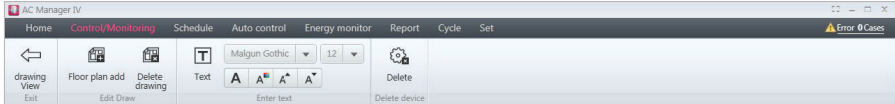
1. In the menu bar at the top, click **Control/Monitoring**.
2. Click the **Location** tab in the Device List.
 - The floor plan opens.



3. Click **[Editing]** button.
4. The floor plan editor opens.



5. To add a floor plan, click **[Floor plan add]**.
6. If the file import window appears, select the floor plan file you wish to use and click **[Open]**.
 - The selected image will appear in the floor plan editor.
7. To add a device to the floor plan, select the device in the device list and drag it onto the floor plan.
8. To add or edit text on the floor plan, use the Enter Text control in the Toolbox.



Item	Description
Enter Text	<ul style="list-style-type: none"> • Text: Inserts a text box into the floor plan. • Font: Click [▼] to select the desired font from a list. • Font size: Click [▼] to select the desired font from a list. • Bold: Change the text to boldface. • Color: Select the desired font color from a palette. • Larger: Increases the font size by 1 pt. • Smaller: Decreases the font size by 1 pt.

9. When you have completed making changes, click **[Apply]**.
10. To move to the main floor plan screen, click **[drawing View]**.



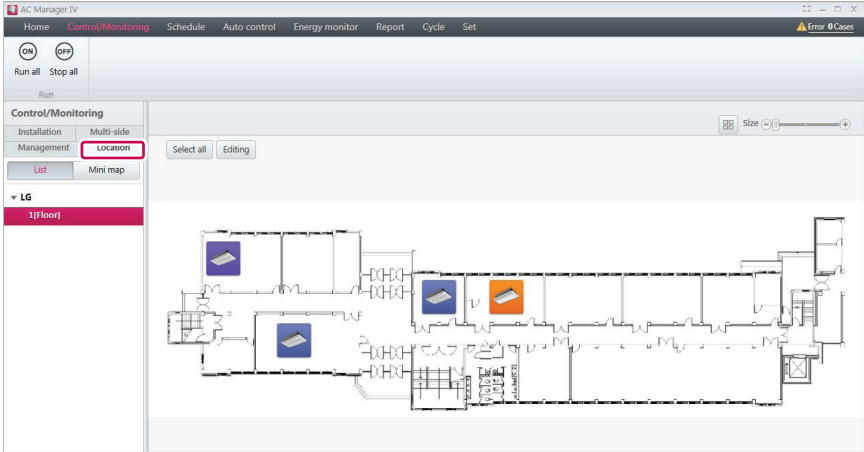
NOTES

- To add a floor plan, you can only use jpg, bmp or png format.
- To add a floor plan, 2MB or less image size is recommended. If the size is exceeded, the alarm popup appears.

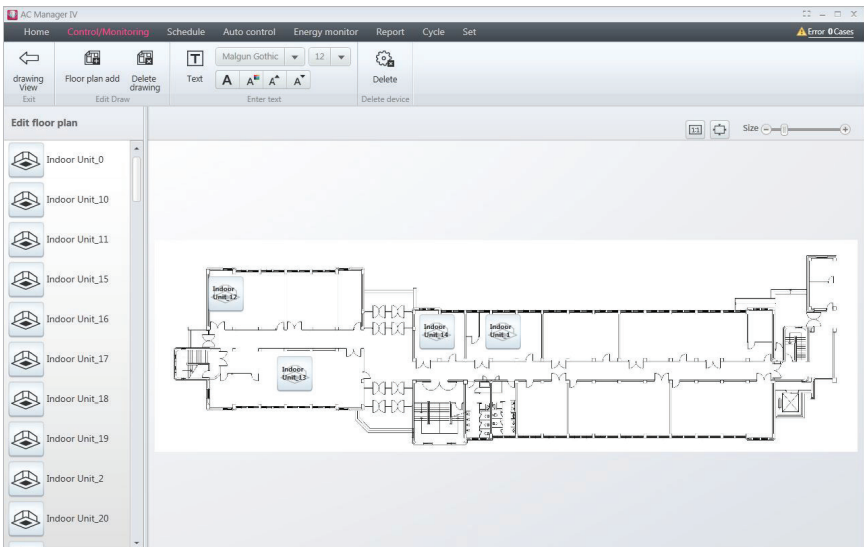
Deleting the Floor Plan

You can delete the added floor plan.

1. In the menu bar at the top, click **Control/Monitoring**.
2. Click the **Location** tab in the Device List.
 - The floor plan opens.

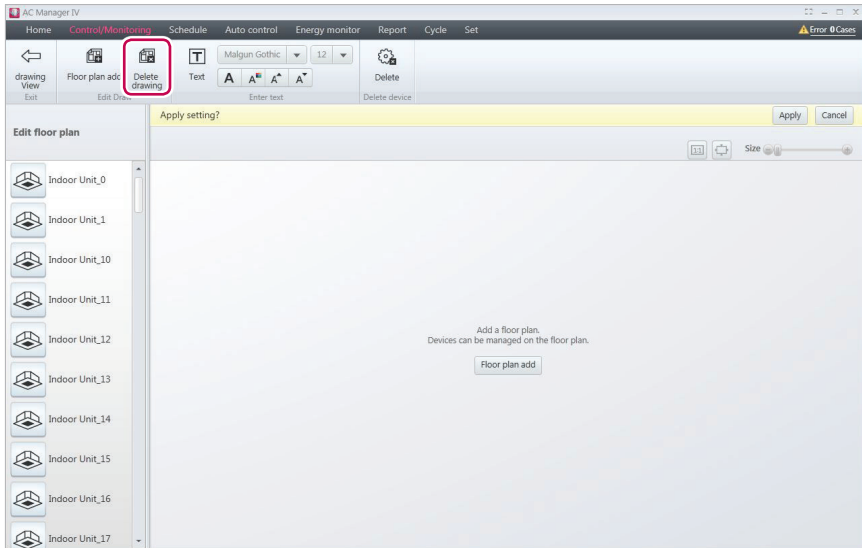


3. Click **[Editing]** button.
 - The floor plan editor opens.



4. To delete a floor plan, click **[Delete drawing]**.

- The floor plan is deleted.



Schedule

The Schedule feature allows you to program the behavior of the devices. If a device must adhere to a certain schedule, you can program the device to operate only at scheduled times. Scheduled devices do not activate unless programmed to do so and are managed centrally. This can significantly reduce energy consumption.

View overall schedule

You can see the list of the items in all schedules set in AC Manager VI.

You can check whether the set schedule is applied, name, repetition dates, start date, end date, and device list. When you select the desired schedule, the summary information is shown at the bottom. You can also immediately apply or reset the desired schedule.

The screenshot shows the AC Manager IV software interface. The main window is titled 'AC Manager IV' and has a menu bar with 'Home', 'Control/Monitoring', 'Schedule', 'Auto control', 'Energy monitor', 'Report', 'Cycle', and 'Set'. Below the menu bar is a toolbar with various icons and buttons. The 'Schedule' section is active, showing a calendar for 2014 on the left and a 'Schedule List' table on the right. The table is highlighted with a red border.

State	Schedule Name	Repeat Pattern	Start Date	End Date	Device List
ON	Schedule #1	Fri.Sun	2014-05-18	2100-01-01	All(47), AHU(10), AWHP(10), IDU(17), Vent(10)
ON	Schedule #2	Wed.Thu	2014-05-18	2100-01-01	All(47), AHU(10), AWHP(10), IDU(17), Vent(10)
ON	Schedule #3		2014-05-18	2014-05-18	All(47), AHU(10), AWHP(10), IDU(17), Vent(10)
ON	Schedule #4		2014-05-18	2014-05-18	All(47), AHU(10), AWHP(10), IDU(17), Vent(10)
ON	Schedule #5		2014-05-18	2014-05-18	All(47), AHU(10), AWHP(10), IDU(17), Vent(10)

Creating Schedules

Follow these steps to add a schedule.



1. In the menu bar at the top, click **Schedule**.
2. From the Toolbox, click **[New schedule]**.
 - The new schedule screen opens.

The screenshot shows the 'Schedule #1' configuration window in the AC Manager IV software. The window is divided into several sections:

- 1. Schedule #1:** This section contains the title 'Schedule #1', a 'Repeat' section with a radio button for 'Once' and a 'Select the day' section with checkboxes for 'Mon', 'Tue', 'Wed', 'Thu', 'Fri', 'Sat', and 'Sun'. Below this are 'Start date' and 'End date' fields, both set to '2014-05-18' and '2100-01-01' respectively. There is also a checkbox for 'End date is not designated'.
- 2. Exception date:** This is a separate window or panel titled 'Exception date' with a 'Load saved data' button and an 'Enter exception date' input field.
- 3. Registered device:** This is a table listing registered devices. The table has columns for 'Type', 'Device name', 'Address', 'ACP', 'Control group', and 'Location'. The data rows are:

Type	Device name	Address	ACP	Control group	Location
AHU	AHU_9	09	ACP:00	Group	LG 1[Floor]
AWHP	AWHP_0	00	ACP:00	Group	LG 1[Floor]
AWHP	AWHP_1	01	ACP:00	Group	LG 1[Floor]
AWHP	AWHP_2	02	ACP:00	Group	LG 1[Floor]
AWHP	AWHP_3	03	ACP:00	Group	LG 1[Floor]
AWHP	AWHP_4	04	ACP:00	Group	LG 1[Floor]
AWHP	AWHP_5	05	ACP:00	Group	LG 1[Floor]
AWHP	AWHP_6	06	ACP:00	Group	LG 1[Floor]
AWHP	AWHP_7	07	ACP:00	Group	LG 1[Floor]
AWHP	AWHP_8	08	ACP:00	Group	LG 1[Floor]
- 4. Event:** This section contains a '1.' label, a time selector set to '06:00', and a control panel with buttons for 'Run', 'Stop', 'Auto', 'Cool', 'Heat', 'Dry', 'Fan', 'Swing', 'Set', 'Cancel', 'All', 'Lock', 'Cancel', 'Mode', 'Lock', 'Cancel', and 'Lock'.

No.	Item	Description
①	Name & Schedule	Set the schedule name, start date, end date, and days of operation.
②	Exception date	Manage exception days.
③	Device List	<ul style="list-style-type: none"> • Displays information on registered devices. • [Edit device] Button: Add or delete a device.


No.	Item	Description
④	Events	<ul style="list-style-type: none"> • Create events for the selected device. • Entering Times <ul style="list-style-type: none"> - Click [▲]/[▼] to set the time. - Valid entries are in the 00:00 - 23:50 range in 10 minute intervals. • Device Settings <ul style="list-style-type: none"> - The available device tabs depend on the device selected in the Device List. Use these controls to set behavior. • [Add event] Button: Create an additional event. •  Button: Copies the current event. •  Button: Deletes the current event.

3. Enter a name for the schedule in the window.
4. Select repeat dates to repeat the schedule.

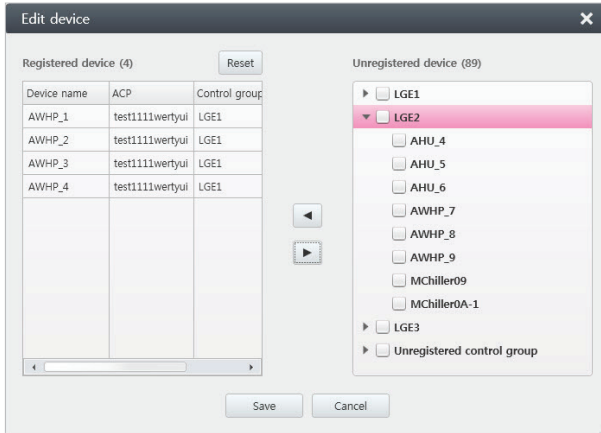
Item	Description
Once	<ul style="list-style-type: none"> • Apply the schedule on the start date and no other days. • You cannot specify repeat days with this setting. • You can not select an end date.
Select day of week	Select the desired day of week to repeat only on the corresponding day of week from the start date to the end date.

5. Set the desired period

Item	Description
Start date	<ul style="list-style-type: none"> • Select the desired start date from the mini calendar. • Default start date is selected as the today's date.
End dates	<ul style="list-style-type: none"> • Select the last day of operation. Click the date to open a calendar. • You cannot set the end date as the same or previous date from the start date.
End date is not designated	This schedule repeats until ended manually.

6. To set exception dates, click **[Load saved data]**.
 - The exception dates are imported from the system settings and displayed.
7. To manually add new exception dates, click  and select the exception dates to add.
8. Add an exception name in the name box.

9. In the Device List, click **[Edit device]**.
 - The edit device window opens.
10. In the unregistered devices list, click the group that the device you want to register belongs to and click **[◀]** button.
 - To register multiple groups at a time, tick the checkbox for the groups you want to register and click **[◀]** button.
 - The selected devices are added to the device list.




NOTES

If you register Exp.I/O devices of the different types, a warning message **"You cannot register Exp.I/O devices of the different types at the same type."** appears for 3 seconds and disappears.

11. After registering a device, click **[Save]**.
12. To add a new event, click **[Add event]**.
13. In the Events list, use **[▲]/[▼]** to set the desired time, then select the control status.



NOTES

Click  button to copy the previously set schedule event except time. The setup time interval for an event should be 10 minutes or longer.

14. When you have completed making changes, click **[Apply]**.

Setting Exceptions

You can import and edit the exception dates that are already set in the system. You can also add additional exception dates.

Importing Exceptions


You can import the exception dates that are already set in the system, as follows.

1. In the Schedule screen, click **[Load saved data]**.
 - The exception dates are imported from the system settings and displayed.
2. To save these settings, click **[Apply]**.

Adding or Deleting Exceptions

You can add or delete exception dates as desired, as follows.

1. Add or delete exceptions dates from the Schedule screen.

No.	Item	Description
①	Delete All	Delete all listed exception dates.
②	Delete Selected	Delete the selected exception date.
③	Add Exception	<ul style="list-style-type: none"> • Add an additional exception date. •  Select exception dates to add by clicking → Enter a name for the exception in the input box.

2. To save these settings, click **[Apply]**.

Checking Schedules

Follow these steps to check a schedule.




- In the menu bar at the top, click **Schedule**.
 - The schedule screen opens.



The screenshot shows the AC Manager IV software interface. The top menu bar includes Home, Control/Monitoring, Schedule, Auto control, Energy monitor, Report, Cycle, and Set. The toolbar contains icons for New schedule, Edit, Delete, View history, Save as file, Print, Copy schedule, and Export. The main area is divided into a calendar on the left and a schedule grid on the right. The calendar shows the date 2014-05-18 (Sunday) selected. The schedule grid has five columns labeled Schedule #1 through Schedule #5 and rows for each hour from 00:00 to 13:00. A summary panel at the bottom displays details for Schedule #1, including the indoor unit name and settings.

No.	Item	Description
①	Dates	<ul style="list-style-type: none"> Shows the date currently displayed below. Click [◀]/[▶] to change the currently displayed date.
②	Event Display	<ul style="list-style-type: none"> Check the box to show the selected schedule. Schedules are shown by color, date, and name (You cannot manually set the schedule color).
③	Summary	<ul style="list-style-type: none"> A summary of the selected schedule. Provides information about the schedule name, duration, repeats, and devices. Displays settings according to time.

- Select the date to display on the calendar or in the Toolbox.

3. Select a viewing mode to see the schedule.

Item	Description
	Day View
	Week View
	Month View

4. Select the schedule item you wish to see from the schedule list.
- To select multiple schedules, check the box at the beginning of the list.
 - The settings screen for the selected schedules appears.
5. If you want to batch start the selected schedules, click **[Start All]**. To batch stop the selected schedules, click **[Stop All]**.
- To start a single schedule, click  by the schedule name. To stop a running schedule, click .
 - To save the schedule settings as a file, click **[Save as file]**. When the file save screen appears, enter a file name and click **[Save]**.
 - To print the schedule, click **[Print]**.

Editing Schedules

You can change the settings for schedules that are currently listed.

1. In the menu bar at the top, click **Schedule**.

The screenshot shows the AC Manager IV software interface. The top menu bar includes Home, Control/Monitoring, **Schedule**, Auto control, Energy monitor, Report, Cycle, and Set. Below the menu bar, there are buttons for New schedule, Edit, Delete, Reference date (2014-05-18), View history, Save as file, Print, and Copy schedule. The main area is divided into a left sidebar and a main grid.

The left sidebar contains a calendar for May 2014, with the 18th selected. Below the calendar are buttons for Start all and Stop all, and radio buttons for By name and By action. A 'Show Schedule List' section shows five schedules:

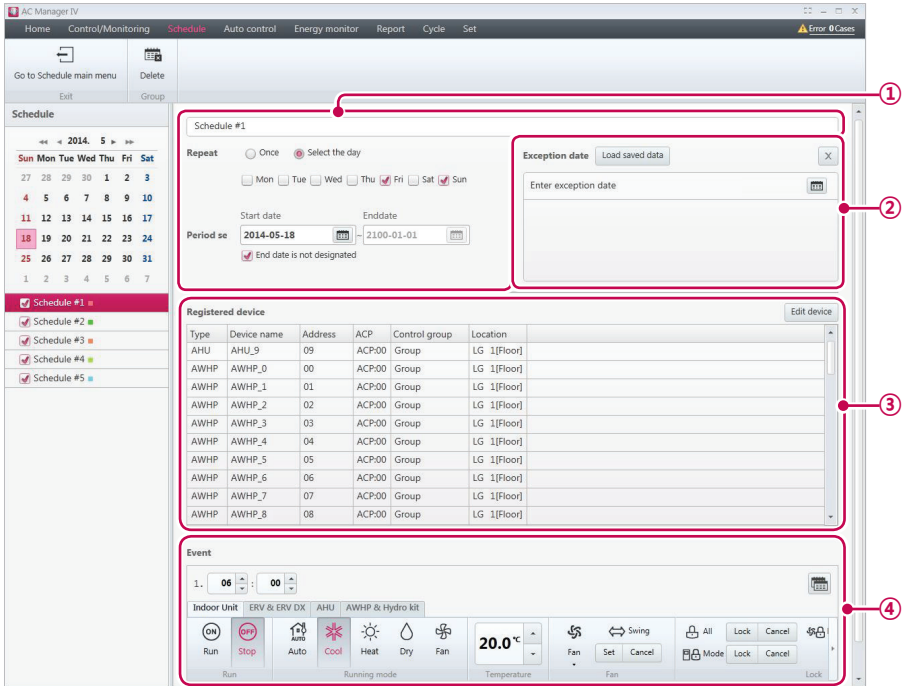
- Schedule #1 (ON)
- Schedule #2 (ON)
- Schedule #3 (ON)
- Schedule #4 (ON)
- Schedule #5 (ON)

The main grid displays a schedule for Sunday, May 18, 2014. The grid has columns for Schedule #1 through Schedule #5 and rows for time slots from 00:00 to 13:00. The following table represents the data in the grid:



Time	Schedule #1	Schedule #2	Schedule #3	Schedule #4	Schedule #5
00:00					
01:00					
02:00					
03:00					
04:00					
05:00					
06:00	06:00				
07:00		07:00			
08:00					
09:00					
10:00					
11:00					
12:00				12:00	
13:00					

At the bottom, a 'Summary' section shows details for Schedule #1: 06:00 Indoor Unit : Run(Stop), Running mode(Cool), Set temp.(20). Below this is an 'Edit' button and the text: Schedule #1, Indoor Unit(L7), ERV(10), AWHP(10), AHU(10), 2014-05-18 ~ 2100-01-01, Fr,Sun.

2. Select the schedule you wish to modify from the list.
3. Click **[Edit]**.
 - The schedule screen opens.



No.	Item	Description
①	Name & Schedule	Modify the schedule name, start date, end date, and days of operation.
②	Exceptions	Manage exception days. <ul style="list-style-type: none"> • [Load saved data] Button: Import a list of exception dates from system settings.
③	Device List	<ul style="list-style-type: none"> • Displays information on registered devices. • [Edit device] Button: Add or delete a device.

No.	Item	Description
④	Events	<ul style="list-style-type: none"> • Create events for the selected device. • Entering Times <ul style="list-style-type: none"> - Click [▲]/[▼] to set the time. - Valid entries are in the 00:00 - 23:50 range in 10 minute intervals. • Device Settings <ul style="list-style-type: none"> - The available device tabs depend on the device selected in the Device List. Use these controls to set behavior. • [Add event] Button: Create an additional event. •  Button: Copies the current event. •  Button: Deletes the current event.

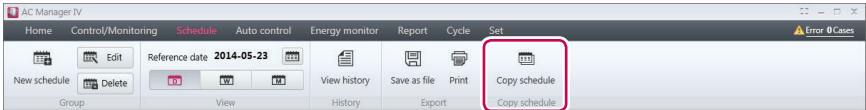
4. Modify the desired schedule.

5. When you have completed making changes, click **[Apply]** .

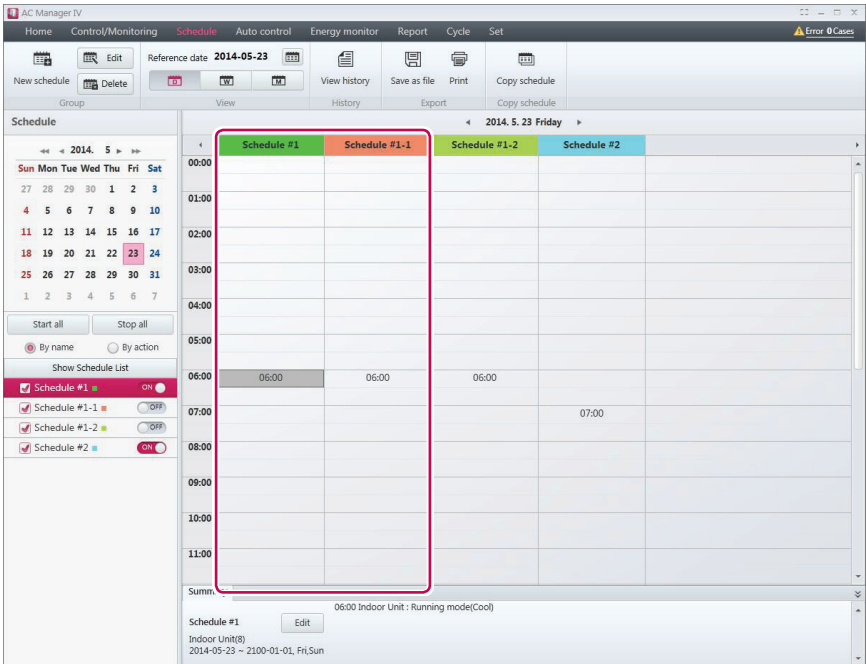
Copy Schedule

You can copy of Schedule.

1. In the menu bar at the top, click **Schedule**.
2. Select a schedule from the list , please copy the schedule.
3. From the toolbar area, click the button **[Copy schedule]**.



4. When the confirm pop-up window appears, click **[OK]**.
 - A list of the selected schedule will be copied.



Deleting Schedules

Follow these steps to delete a schedule.

1. In the menu bar at the top, click **Schedule**.
2. Select the schedule to delete in the schedule list.
3. From the Toolbox, click **[Delete]**.
4. When you are prompted to confirm the deletion, click **[OK]**.
 - The selected schedule is then deleted and removed from the list.

View history

View a history of scheduled activity in this log.

1. In the menu bar at the top, click **Schedule**.
2. From the Toolbox, click **[View history]**.
 - The log report appears.

Date time	Category	Address	Device type	Main agent	Reference Code	Detail	Location group	ACP
2014-05-23 PM 04:02	Event	48	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	4C	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	58	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	5A	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	5E	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	6E	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	71	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	74	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	75	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	AWHP_1	01	AWHP	ACP	Schedule	-	ACP00
2014-05-23 PM 04:02	Event	AWHP_3	03	AWHP	ACP	Schedule	-	ACP00
2014-05-23 PM 04:02	Event	AWHP_9	09	AWHP	ACP	Schedule	-	ACP00
2014-05-23 PM 04:02	Event	0A	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	0C	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	14	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	18	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	1D	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	23	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	26	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	27	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	2D	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	33	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	37	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	3A	-	ACP	Schedule	-	-	-
2014-05-23 PM 04:02	Event	3D	-	ACP	Schedule	-	-	-

3. To save the log as a file, click **[Save as file]**. When the file save screen appears, enter a file name and click **[Save]**.
4. To print the log, click **[Print]**.

Auto Control

Auto control allows you to change power consumption or control external devices by linking to them. You can also set the indoor temperature to automatically change according to outdoor conditions or activate devices for certain periods of time.



NOTES

- If you change the control value of the device in the Auto Control mode, the existing Auto Control values are cancelled.
- Chiller is not in automatic control linkage .
- When you change the group information of the automatic control, **Automatic control > Peak/Demand control** information is initialized.


Peak Control



Peak control limits the peak power consumption. You can set the target operating rate so that the total power consumption does not exceed this limit. To prevent power consumption from exceeding the limit, the system will automatically change cooling mode to fan mode and cancel heating mode.

1. In the menu bar at the top, click **Auto control**.
2. From the Toolbox, click [**Peak control**].
 - The peak control screen opens.

The screenshot shows the AC Manager IV software interface. The 'Auto control' menu is selected. The 'Peak control' screen is active, showing a 'Control method' section with a slider for 'Current operating rate (%)' and 'Target operation rate (%)'. The 'Target operation rate (%)' is set to 73. The 'Operation Change over time (Minutes)' is set to 5. Below this is a table of indoor units with columns for Device name, Run status, Room temp., Set temp., and Mode.

Device name	Run	Room temp.	Set temp.	Mode
All				
Indoor Unit_0	Run	29.0°C	23.0°C	Dry
Indoor Unit_1	Stop	30.0°C	24.0°C	Fan
Indoor Unit_10	Run	44.5°C	23.0°C	Dry
Indoor Unit_11	Run	35.0°C	25.0°C	Heat
Indoor Unit_12	Run	36.0°C	25.0°C	Fan
Indoor Unit_13	Run	32.5°C	20.5°C	Auto
Indoor Unit_14	Stop	14.5°C	26.5°C	Heat
Indoor Unit_15	Run	13.0°C	23.0°C	Heat
Indoor Unit_16	Run	17.0°C	26.0°C	Dry
Indoor Unit_17	Run	32.5°C	27.0°C	Auto
Indoor Unit_18	Stop	24.5°C	29.0°C	Auto
Indoor Unit_19	Run	34.5°C	18.5°C	Fan
Indoor Unit_2	Stop	16.0°C	19.0°C	Dry
Indoor Unit_3	Run	23.0°C	24.0°C	Fan
Indoor Unit_4	Stop	16.0°C	28.0°C	Auto
Indoor Unit_5	Stop	49.0°C	28.5°C	Dry
Indoor Unit_6	Run	17.0°C	25.0°C	Heat
Indoor Unit_7	Run	12.5°C	21.0°C	Fan
Indoor Unit_8	Stop	9.0°C	29.0°C	Cool
Indoor Unit_9	Stop	23.0°C	20.0°C	Dry

No.	Item	Description
①	Control Info Display	<ul style="list-style-type: none"> • Run <ul style="list-style-type: none"> - [Apply peak control] Button: Activates peak control for the selected ACP. - [Cancel peak control] Button: Deactivates peak control for the selected ACP. • Control Methods <ul style="list-style-type: none"> - Outdoor unit capacity control function: Applies limits to outdoor units to control outdoor limits. - Priority Control: Applies limits according to the priority of each ACP. • Operation rate Bar <ul style="list-style-type: none"> - This graphical bar shows the current operation rate and the target operation rate of indoor units. - You can drag the triangle slider() to change the target operation rate. • Current operation rate (%) <ul style="list-style-type: none"> - Shows the percentage of currently operating units from all entire indoor ACP units (blue bar). • Target operation rate (%) <ul style="list-style-type: none"> - Click [▲]/[▼] to set the desired operation rate (green bar). • Operation Change over time (Minutes) <ul style="list-style-type: none"> - Click [▲]/[▼] to set the time in minutes to force operation to stop. - You can set this from 5 to 15 minutes.
②	Operation Status	Shows device name, activity, current temperature, set temperature, and operation mode.

3. Select the ACP you wish to control from this list.
 - The ACP settings are then shown to the right of the list.
4. Select the control status in the control status display.
5. To apply control settings, click **[Apply]**.
 - The control settings are then saved.
6. To activate the selected group, click **[Apply peak control]** or  next to the group name.
 - To deactivate the group, click **[Cancel peak control]** or  next to the group name.
7. To apply all peak controls to registered ACPs, click **[Apply to all]**. To disable all peak controls, click **[Cancel all]**.



NOTES

- Depending on the installation site specifications, either of the peak control and demand control can be selected. Go to **Set > System setting > Basic setting**. In **Select peak/demand control** select a desired control method.
- The peak control is only limited to the indoor device and you can not register other devices such as ventilator or AHU, except a indoor device.

Editing Groups

Follow these steps to change group settings at the bottom of the ACP.

- In the menu bar at the top, click **Auto control**.
- From the Toolbox, click **[Peak control]** and select an ACP.
- Click **[Edit]**.
 - The peak control group edit screen opens.

No.	Item	Description
①	Group Tabs	All registered groups are shown as tabs.
②	Group Name	Enter or modify the group name in this textbox.
③	Group Priority	Choose the priority of the group: Very low, Low, Normal, High, Very high
④	[Edit device] Button	Opens a window to edit the device list (add or remove).

No.	Item	Description
⑤	Device List	Displays a list of devices registered in the selected group.

- You can group multiple outdoor units together, or add or delete specific units from a group. Edit the selected group to your desired preferences.
 - For details about grouping outdoor units, refer to **Applying to Outdoor Units** on page 63.
 - For details about adding groups, refer to **Adding Groups** on page <OV>.
 - For details about deleting groups, refer to **Deleting Groups** on page 65.
- To apply control settings, click **[Apply]**.
 - The control settings are then saved.

Applying to Outdoor Units

You can group multiple outdoor units (registered in ACP) together.

- To apply settings to outdoor units registered to the ACP, click **[Apply by outdoor unit]**.
 - Peak control is applied to that group.

The screenshot shows the AC Manager IV software interface. The 'Apply by outdoor unit' button is highlighted with a red box. The 'Edit group ACP' window is open, showing the 'Group name' as 'ODU1' and the 'Priority' set to 'Normal'. A table of registered devices is displayed below.

Device name	Address	ACP	Control group	Location
Indoor Unit_0	ACP:00_IDU_00	ACP	Group	LG 1[Floor]
Indoor Unit_1	ACP:00_IDU_01	ACP	Group	LG 1[Floor]
Indoor Unit_10	ACP:00_IDU_10	ACP	Group	LG 1[Floor]
Indoor Unit_11	ACP:00_IDU_11	ACP	Group	LG 1[Floor]
Indoor Unit_12	ACP:00_IDU_12	ACP	Group	LG 1[Floor]
Indoor Unit_13	ACP:00_IDU_13	ACP	Group	LG 1[Floor]
Indoor Unit_14	ACP:00_IDU_14	ACP	Group	LG 1[Floor]
Indoor Unit_15	ACP:00_IDU_15	ACP	Group	LG 1[Floor]
Indoor Unit_16	ACP:00_IDU_16	ACP	Group	LG 1[Floor]
Indoor Unit_17	ACP:00_IDU_17	ACP	Group	LG 1[Floor]
Indoor Unit_18	ACP:00_IDU_18	ACP	Group	LG 1[Floor]
Indoor Unit_19	ACP:00_IDU_19	ACP	Group	LG 1[Floor]
Indoor Unit_2	ACP:00_IDU_02	ACP	Group	LG 1[Floor]
Indoor Unit_3	ACP:00_IDU_03	ACP	Group	LG 1[Floor]
Indoor Unit_4	ACP:00_IDU_04	ACP	Group	LG 1[Floor]
Indoor Unit_5	ACP:00_IDU_05	ACP	Group	LG 1[Floor]
Indoor Unit_6	ACP:00_IDU_06	ACP	Group	LG 1[Floor]

- To save these settings, click **[Apply]**.



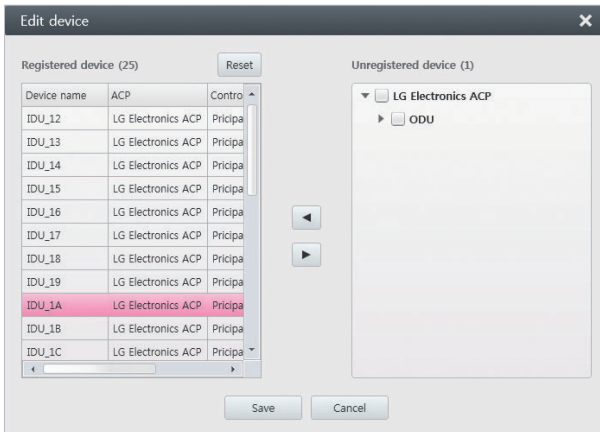
NOTES

If outdoor unit is applied, previously created group will be deleted.

Adding Groups

Follow these steps to add a new group.

- To add a group, click **[Add group]**.
 - The add group screen opens.
- Enter a name for the group in the group name textbox.
- Set the priority of the group.
- To add a device, click **[Edit device]**.
 - The edit device screen opens.
- Check the box of unregistered devices you wish to add and click **[◀]**.
 - You can only add indoor units for peak control.
 - To add multiple devices at one time, check multiple boxes before clicking **[◀]**.
 - The selected devices are added to the device list.



NOTES

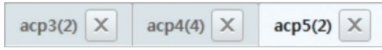
A device that does not belong to the group cannot be registered.

- To accept changes to the list, click **[Save]**.
- To save these settings, click **[Apply]**.

Deleting Groups

Follow these steps to delete a group from the group list.

1. Click the [X] on the tab of the group you wish to delete.
 - The selected group is deleted and the tab removed.

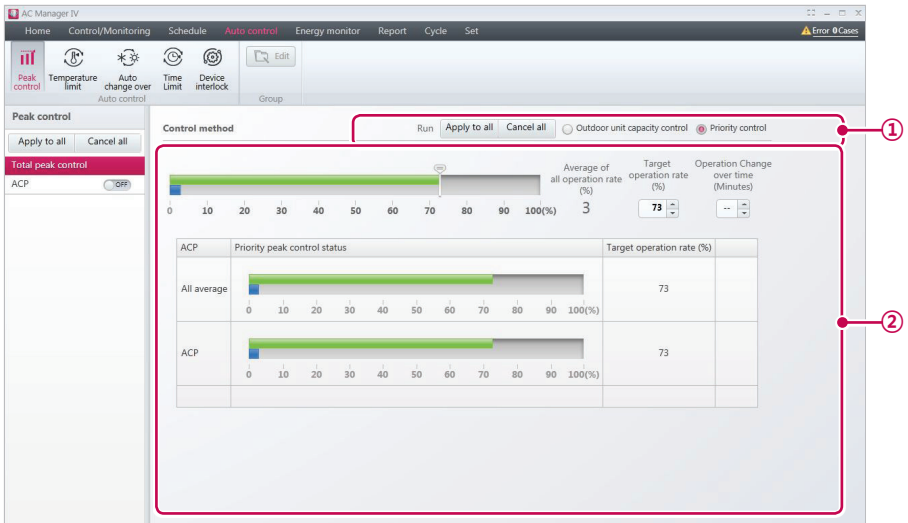


2. To save these settings, click [Apply].

Viewing the Status of Peak Controls

Follow these steps to view the status of current peak controls.

1. In the menu bar at the top, click **Auto control**.
2. From the tool box, click [**Peak control**] button.
3. From the control list, click [**View peak control status**] button.
 - Peak control status viewing screen appears.



No.	Item	Description
①	Control Info Display	<ul style="list-style-type: none"> • Control Method - Priority Control: Switch to control by priority. - Outdoor unit capacity control function: Switch to control by outdoor units.

No.	Item	Description
②	Peak Control List	<p>(Control method when priority control is selected)</p> <ul style="list-style-type: none"> • Shows a status list of peak controls for each ACP. <ul style="list-style-type: none"> - Priority peak control status: Graphical display of current operation rates and target operation rates for each ACP. - Current operation rate (%): Displays the current operation rate of each ACP (blue bar). - Target operation rate (%): Displays the target operation rate of each ACP (green bar). <p>(Control method when outdoor unit control is selected)</p> <ul style="list-style-type: none"> • Displays a capacity control list for outdoor units on each ACP. <ul style="list-style-type: none"> - Outdoor unit capacity peak control status: Displays the target operation rate (%). - Target Operation rate (%): Displays target operation rate for outdoor units on each ACP.

Demand Control

After observing changes in power consumption, this feature can prevent power consumption from exceeding a set limit. If you set the demand control and the program predicts that power consumption will exceed the limit, it will begin deactivating less important devices to save energy.

1. In the menu bar at the top, click **Auto control**.
2. From the Toolbox, click [**Demand control**].
 - The demand control screen opens.

Device name	Run	Room temp.	Set temp.	Mode
Indoor_Unit_0	Run	8.0°C	23.5°C	Dry
Indoor_Unit_1	Run	22.5°C	29.0°C	Dry
Indoor_Unit_10	Run	20.5°C	20.0°C	Fan
Indoor_Unit_11	Stop	12.5°C	29.5°C	Cool
Indoor_Unit_12	Stop	6.5°C	27.5°C	Auto
Indoor_Unit_13	Stop	32.5°C	19.5°C	Dry
Indoor_Unit_14	Run	31.0°C	29.5°C	Auto
Indoor_Unit_15	Stop	36.0°C	25.5°C	Fan
Indoor_Unit_16	Stop	46.0°C	24.5°C	Auto
Indoor_Unit_17	Stop	46.5°C	24.5°C	Fan
Indoor_Unit_18	Run	8.5°C	27.5°C	Auto
Indoor_Unit_19	Run	20.5°C	27.5°C	Auto
Indoor_Unit_2	Stop	16.0°C	25.0°C	Dry
Indoor_Unit_20	Stop	49.5°C	20.5°C	Cool
Indoor_Unit_21	Stop	25.5°C	25.5°C	Cool

No.	Item	Description
①	Control Info Display	<ul style="list-style-type: none"> • Control Method <ul style="list-style-type: none"> - Outdoor unit capacity control: Switches to a screen that offers controls based on the outdoor unit capacity limit. - Priority control: Switches to a screen that offers controls based on ACP Group Priority. • Operation rate bar: This graphical bar shows the current operation rate and the target operation rate of indoor units. • Current operation rate (%) <ul style="list-style-type: none"> - Shows the percentage of currently operating units from all entire indoor ACP units (blue bar). • Target operation rate (%) <ul style="list-style-type: none"> - Displays the target operation rate (green bar).
②	Operation Status	Shows device name, activity, current temperature, set temperature, and operation mode.

3. Select an ACP group to see its control status.

- You can check the demand control status in the control information display and the operation status list.



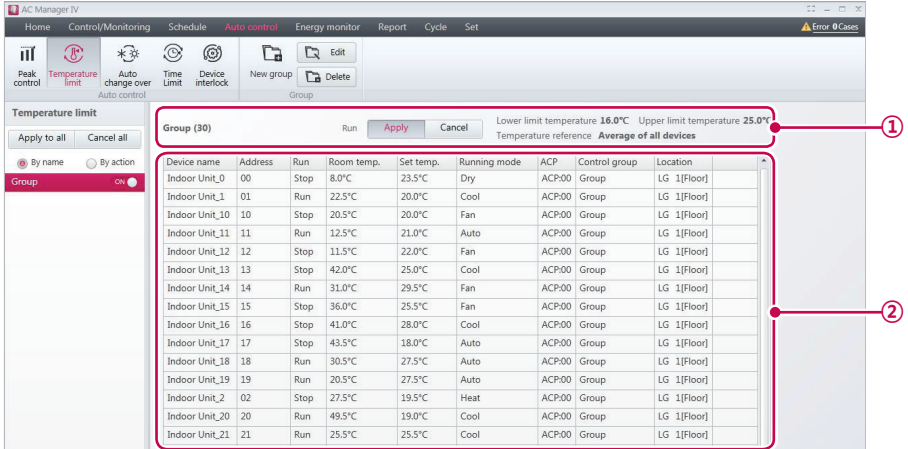
NOTES

- Depending on the installation site specifications, either of the peak control and demand control can be selected. Go to **Set > System setting > Basic setting**. In **Select peak/demand control** select a desired control method.
- You can check the demand control status and edit groups in the demand control menu. But you can not set the target operation rate, switchover, Activity Controls, and Apply All/Disable All.

Temperature limit

The temperature limit feature allows you to maintain a certain temperature range.

1. In the menu bar at the top, click **Auto control**.
2. From the Toolbox, click **[Temperature limit]**.
 - The temperature limit screen opens.



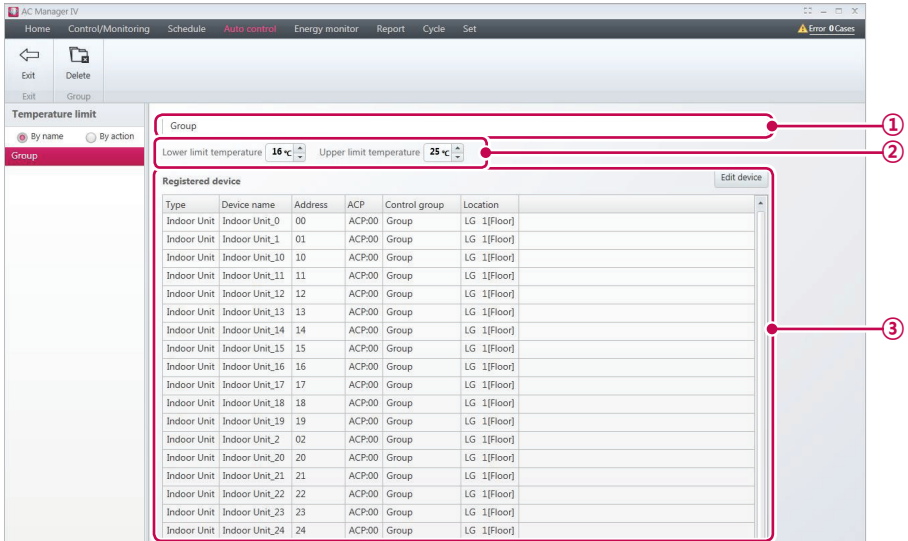
No.	Item	Description
①	Control Info Display	<ul style="list-style-type: none"> • Run <ul style="list-style-type: none"> - Apply: Activate the selected group. - Cancel: Deactivate the selected group. • Set temp. <ul style="list-style-type: none"> - Low limit temperature: The lowest temperature that is allowed indoors. - Upper limit temperature: The highest temperature that is allowed indoors. • Temperature referenc: Displays the method of measuring the indoor temperature. <ul style="list-style-type: none"> - Average of all devices: The average temperature of readings from all indoor devices.
②	Control List	Displays a list of each registered devices and its current status.

3. Select the group to apply temperature limits to in the group list.
 - The control settings status of the selected group opens.
4. To activate the selected group, click **[Apply]** or the **OFF** next to the group name.
 - To deactivate the selected group, click **[Cancel]** or **ON** next to the group name.
5. To batch start all groups, click **[Apply to all]**. To batch stop all groups, click **[Cancel All]**.

Adding Groups

Follow these steps to add a new group.

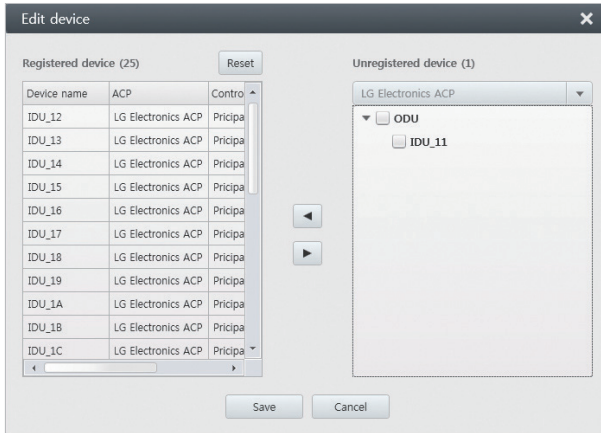
1. In the menu bar at the top, click **Auto control**.
2. From the Toolbox, click **[Temperature limit]**, then click **[New group]**.
 - The add group screen opens.



No.	Item	Description
①	Group Name	Enter or modify the group name in this textbox.
②	Set temp.	<ul style="list-style-type: none"> • Low limit temperature: Use [▲]/[▼] to set the possible lowest indoor temperature. • Upper limit temperature: Use [▲]/[▼] to set the possible highest indoor temperature.
③	Device List	<ul style="list-style-type: none"> • Displays information on registered devices. • [Edit device] Button: Add or delete a device.

3. Enter a name for the group in the group name textbox.
4. Click **[▲]/[▼]** to set the low and high temperature limits.
5. To add a device, click **[Edit device]**.
 - The edit device window opens.

6. Check the box of unregistered devices you wish to add and click [◀].
- You can only apply temperature limits to indoor units.
 - To add multiple devices at one time, check multiple boxes before clicking [◀].
 - The selected devices are added to the device list.

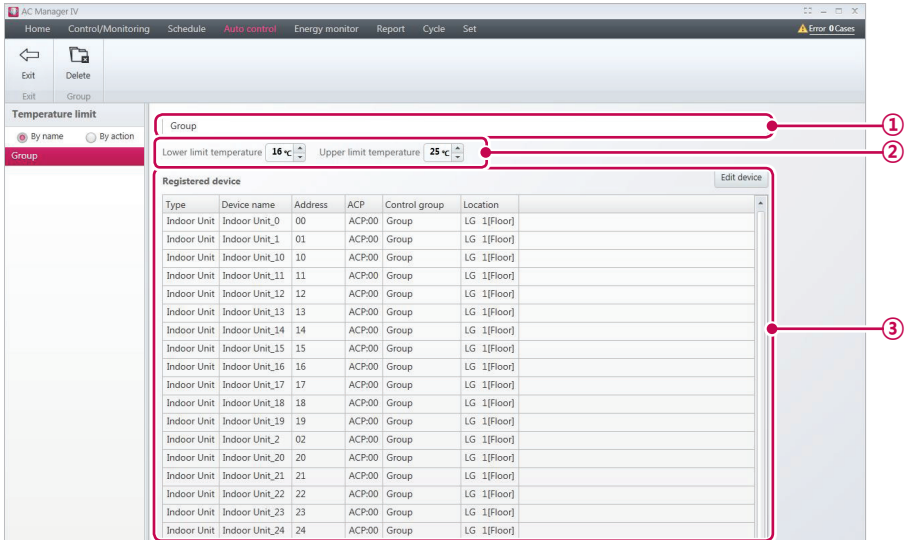


7. After registering a device, click [Save].
8. To save these settings, click [Apply].

Editing Groups

Follow these steps to change group settings.

1. In the menu bar at the top, click **Auto control**.
2. From the Toolbox, click **[Temperature limit]**.
 - The temperature limit screen opens.
3. Select the group to modify in the group list, then click **[Edit]** in the Toolbox.
 - The edit group screen opens.



No.	Item	Description
①	Group Name	Enter or modify the group name in this textbox.
②	Set temp.	<ul style="list-style-type: none"> • Low limit temperature: Use [▲]/[▼] to set the possible lowest indoor temperature. • Upper limit temperature: Use [▲]/[▼] to set the possible highest indoor temperature.
③	Device List	<ul style="list-style-type: none"> • Displays information on registered devices. • [Edit device] Button: Add or delete a device.

4. Edit the selected controls to your desired preferences.
5. To save these settings, click **[Apply]**.

Deleting Groups

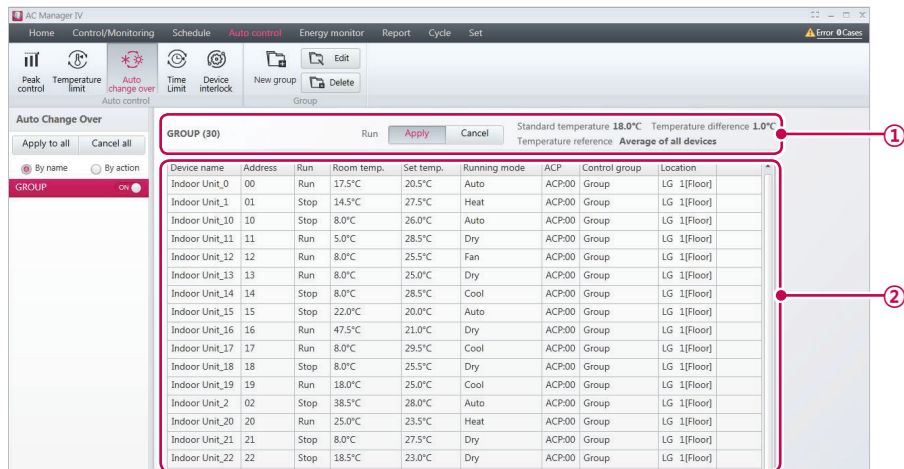
Follow these steps to delete a group from the group list.

1. In the menu bar at the top, click **Auto control**.
2. From the Toolbox, click [**Temperature limit**].
 - The temperature limit screen opens.
3. Select the group to delete from the list and click [**Delete**] in the Toolbox.
4. When you are prompted to confirm the deletion, click [**OK**].
 - The selected group is deleted and removed from the list.

Auto change over

If the temperature exceeds the high limit, the cooling system activates. If it falls below the low limit, the heating system activates.

1. In the menu bar at the top, click **Auto control**.
2. From the Toolbox, click **[Auto change over]**.
 - The auto switchover screen opens.



No.	Item	Description
①	Control Info Display	<ul style="list-style-type: none"> • Run <ul style="list-style-type: none"> - Apply: Activate the selected group. - Cancel: Deactivate the selected group. • Set temp. <ul style="list-style-type: none"> - Standard temperature: Shows the currently set indoor temperature. - Temperature difference: Shows the current temperature difference from the set temperature. • Temperature reference: Displays the method of measuring the indoor temperature. <ul style="list-style-type: none"> - All of all devices: The average temperature of readings from all indoor devices.
②	Control List	Displays a list of each registered devices and its current status.

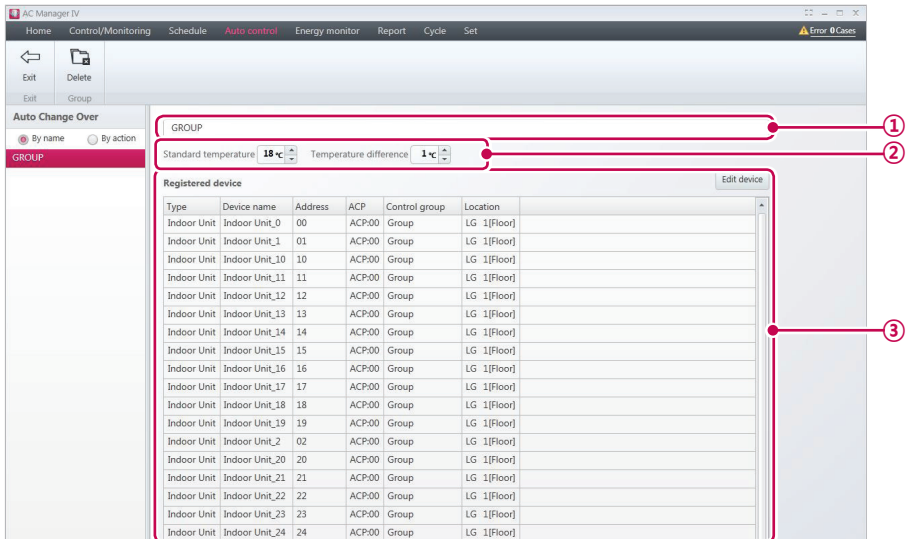
3. Select the group to apply auto switchover to in the group list.
 - The control settings status of the selected group opens.

4. To activate the selected group, click **[Apply]** or the **OFF** next to the group name.
 - To deactivate the selected group, click **[Cancel]** or **ON** next to the group name.
5. To batch start all groups, click **[Apply to all]**. To batch stop all groups, click **[Cancel all]**.

Adding Groups

Follow these steps to add a new group.

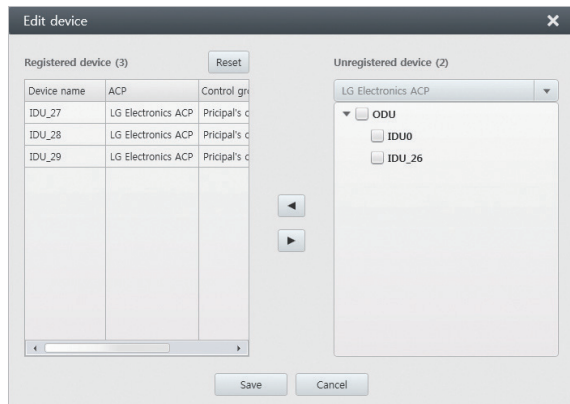
1. In the menu bar at the top, click **Auto control**.
2. From the Toolbox, click **[Auto change over]**, then click **[New group]**.
 - The add group screen opens.



No.	Item	Description
①	Group Name	Enter or modify the group name in this textbox.
②	Set temp.	<ul style="list-style-type: none"> • Standard temperature: Use [▲]/[▼] to set an allowable indoor temperature. • Temperature difference: Use [▲]/[▼] to set the temperature change range.
③	Device List	<ul style="list-style-type: none"> • Displays information on registered devices. • [Edit device] Button: Add or delete a device.

3. Enter a name for the group in the group name textbox.
4. Click **[▲]/[▼]** to set the difference from the reference temperature.
5. To add a device, click **[Edit device]**.
 - The edit device window opens.

6. Check the box of unregistered devices you wish to add and click [**◀**].
 - You can only apply auto switchover to indoor units.
 - To add multiple devices at one time, check multiple boxes before clicking [**◀**].
 - The selected devices are added to the device list.

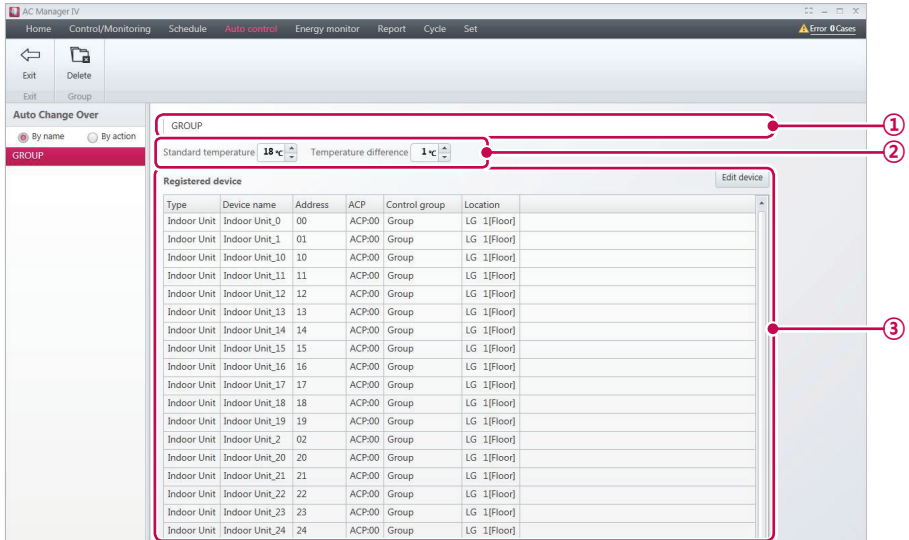


7. After registering a device, click [**Save**].
8. To save these settings, click [**Apply**].

Editing Groups

Follow these steps to change group settings.

1. In the menu bar at the top, click **Auto control**.
2. From the Toolbox, click **[Auto change over]**.
 - The auto switchover screen opens.
3. Select the group to modify in the group list, then click **[Edit]** in the Toolbox.
 - The edit group screen opens.



No.	Item	Description
①	Group Name	Enter or modify the group name in this textbox.
②	Set temp.	<ul style="list-style-type: none"> • Standard temperature: Use [▲]/[▼] to set an allowable indoor temperature. • Temperature difference: Use [▲]/[▼] to set the temperature change range.
③	Device List	<ul style="list-style-type: none"> • Displays information on registered devices. • [Edit device] Button: Add or delete a device.

4. Edit the selected controls to your desired preferences.
5. To save these settings, click **[Apply]**.

Deleting Groups

Follow these steps to delete a group from the group list.

1. In the menu bar at the top, click **Auto control**.
2. From the Toolbox, click **[Auto change over]**.
 - The auto switchover screen opens.
3. Select the group to delete from the list and click **[Delete]** in the Toolbox.
4. When you are prompted to confirm the deletion, click **[OK]**.
 - The selected group is deleted and removed from the list.

Time Limit

You can set limits on when devices will function.

- In the menu bar at the top, click **Auto control**.
- In the Toolbox, click **[Time Limit]**.
 - The time limit screen opens.

The screenshot shows the 'Time Limit' screen in AC Manager IV. The interface includes a menu bar with 'Auto control' selected, and a toolbox with 'Time Limit' highlighted. The main area displays a table for 'GROUP (40)' with the following data:

Type	Device name	Address	Remaining time	Run	Room temp.	Set temp.	Running mode	ACP	Control g
ERV	ERV_0	00	00:00	Stop	0.0°C		None	ACP:00	Group
ERV	ERV_1	01	00:00	Stop	0.0°C		None	ACP:00	Group
ERV	ERV_2	02	00:00	Stop	0.0°C		None	ACP:00	Group
ERV	ERV_3	03	00:00	Stop	0.0°C		None	ACP:00	Group
ERV	ERV_4	04	00:00	Stop	0.0°C		None	ACP:00	Group
ERV	ERV_5	05	00:00	Stop	0.0°C		None	ACP:00	Group
ERV	ERV_6	06	00:00	Stop	0.0°C		None	ACP:00	Group
ERV	ERV_7	07	00:00	Stop	0.0°C		None	ACP:00	Group
ERV	ERV_8	08	00:00	Stop	0.0°C		None	ACP:00	Group
ERV	ERV_9	09	00:00	Stop	0.0°C		None	ACP:00	Group
Indoor Unit	Indoor Unit_0	00	00:00	Run	11.0°C	22.5°C	Auto	ACP:00	Group
Indoor Unit	Indoor Unit_1	01	00:00	Run	41.0°C	27.5°C	Auto	ACP:00	Group
Indoor Unit	Indoor Unit_10	10	00:00	Stop	8.0°C	19.5°C	Fan	ACP:00	Group
Indoor Unit	Indoor Unit_11	11	00:00	Stop	5.5°C	28.5°C	Heat	ACP:00	Group
Indoor Unit	Indoor Unit_12	12	00:00	Run	8.0°C	27.0°C	Heat	ACP:00	Group
Indoor Unit	Indoor Unit_13	13	00:00	Run	8.0°C	23.5°C	Auto	ACP:00	Group
Indoor Unit	Indoor Unit_14	14	00:00	Stop	15.5°C	28.5°C	Auto	ACP:00	Group
Indoor Unit	Indoor Unit_15	15	00:00	Run	8.5°C	19.5°C	Auto	ACP:00	Group
Indoor Unit	Indoor Unit_16	16	00:00	Run	10.5°C	25.5°C	Dry	ACP:00	Group
Indoor Unit	Indoor Unit_17	17	00:00	Run	32.0°C	22.5°C	Cool	ACP:00	Group

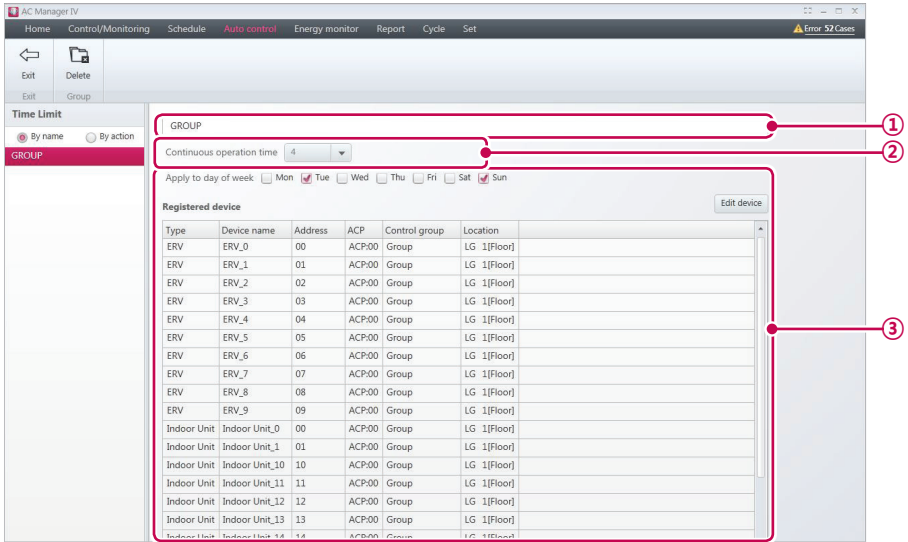
No.	Item	Description
①	Control Info Display	<ul style="list-style-type: none"> Run <ul style="list-style-type: none"> - Apply: Activate the selected group. - Cancel: Deactivate the selected group. Continuous operation time: Displays continuous operation time. Apply to day of week: Displays the days when the time limit is enforced.
②	Control List	Displays a list of each registered devices and its current status.

- Select a group from the list.
 - The control settings status of the selected group opens.
- To activate the selected group, click **[Apply]** or the **OFF** next to the group name.
 - To deactivate the selected group, click **[Cancel]** or **ON** next to the group name.
- To batch start all groups, click **[Apply to all]**. To batch stop all groups, click **[Cancel all]**.

Adding Groups

Follow these steps to add a new group.

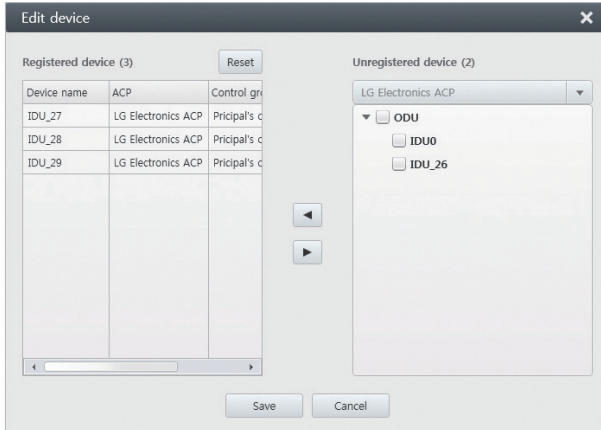
1. In the menu bar at the top, click **Auto control**.
2. From the Toolbox, click **[Time Limit]**, then click **[New group]**.
 - The add group screen opens.



No.	Item	Description
①	Group Name	Enter a name for the group.
②	Set Time	<ul style="list-style-type: none"> • Continuous operation time: Click [▼] to select the allowed uptime (1 - 4 hours). • Apply to day of week: Click the boxes to select which days have the time limit enforced. (You can select overlapping days.)
③	Device List	<ul style="list-style-type: none"> • Displays information on registered devices. • [Edit device] Button: Add or delete a device.

3. Enter a name for the group in the group name textbox.
4. Click [▼] to select the allowed uptime.
5. Click on the boxes to select which days the limit is enforced.

6. To add a device, click **[Edit device]**.
 - The edit device window opens.
7. Check the box of unregistered devices you wish to add and click **[◀]**.
 - You can use time limit control on all devices except AHU, AWHP, Hydro kit, DI, DO and ON/OFF.
 - To add multiple devices at one time, check multiple boxes before clicking **[◀]**.
 - The selected devices are added to the device list.

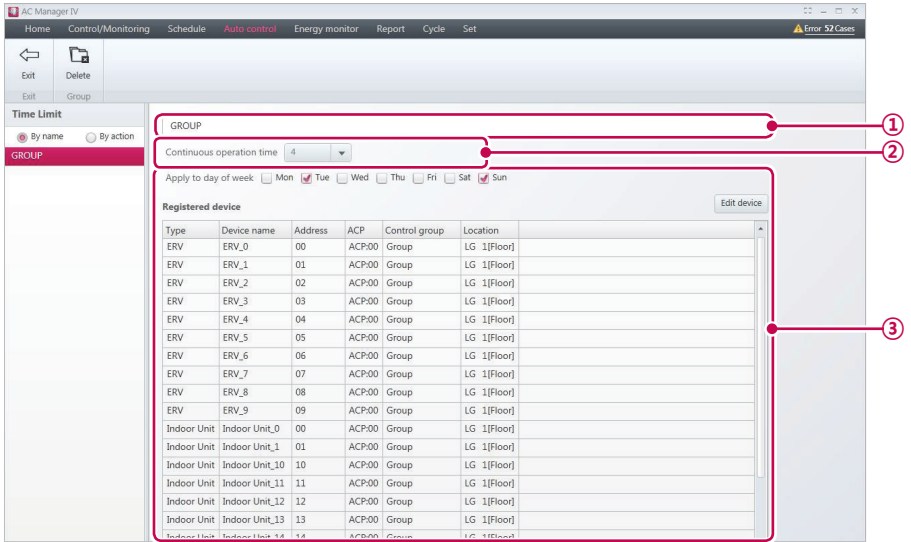


8. After registering a device, click **[Save]**.
9. To save these settings, click **[Apply]**.

Editing Groups

Follow these steps to change group settings.

1. In the menu bar at the top, click **Auto control**.
2. In the Toolbox, click **[Time Limit]**.
 - The time limit screen opens.
3. Select the group to modify in the group list, then click **[Edit]** in the Toolbox.
 - The edit group screen opens.



No.	Item	Description
①	Group Name	Enter or modify the group name in this textbox.
②	Set Time	<ul style="list-style-type: none"> • Continuous operation time: Click [▼] to select the allowed uptime (1 - 4 hours). • Apply to day of week: Click the boxes to select which days have the time limit enforced. (You can select overlapping days.)
③	Device List	<ul style="list-style-type: none"> • Displays information on registered devices. • [Edit device] Button: Add or delete a device.

4. Edit the selected controls to your desired preferences.
5. To save these settings, click **[Apply]**.

Deleting Groups

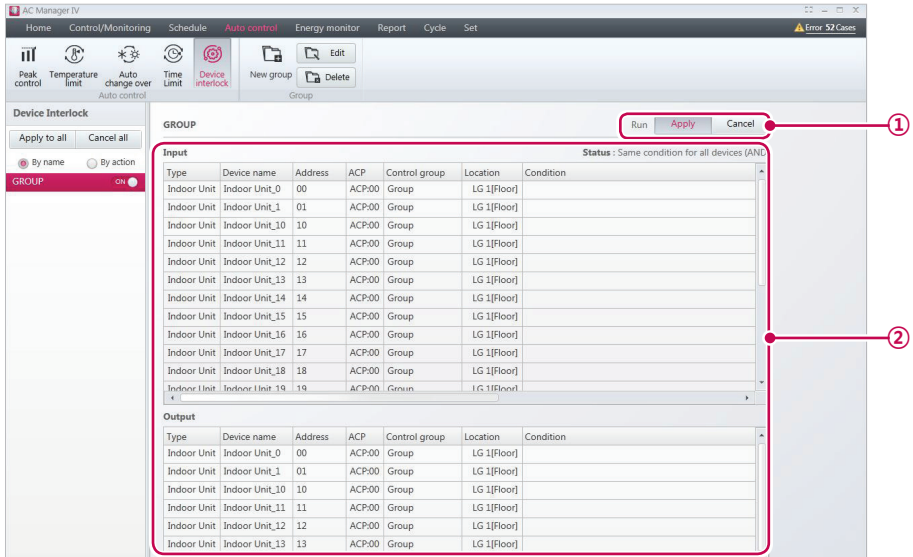
Follow these steps to delete a group from the group list.

1. In the menu bar at the top, click **Auto control**.
2. In the Toolbox, click **[Time Limit]**.
 - The time limit screen opens.
3. Select the group to delete from the list and click **[Delete]** in the Toolbox.
4. When you are prompted to confirm the deletion, click **[OK]**.
 - The selected group is deleted and removed from the list.

Device interlock

You can integrate the system with external devices, such as firealarms, to halt operation of all indoor units and ventilators.

1. In the menu bar at the top, click **Auto control**.
2. From the Toolbox, click **[Device interlock]**.
 - The device integration screen opens.



No.	Item	Description
①	Control Info Display	<ul style="list-style-type: none"> • Run - Apply: Activate the selected group. - Cancel: Deactivate the selected group.
②	Control List	<ul style="list-style-type: none"> • Shows input and output conditions for each action. • Displays the list of registered devices in the group.

3. Select a group from the group list to integrate with an external device.
 - The control settings status of the selected group opens.
4. To activate the selected group, click **[Apply]** or the OFF next to the group name.
 - To deactivate the selected group, click **[Cancel]** or ON next to the group name.
5. To batch start all groups, click **[Apply to all]**. To batch stop all groups, click **[Cancel all]**.

Adding Groups

Follow these steps to add a new group.

1. In the menu bar at the top, click **Auto control**.
2. From the Toolbox, click **[Device interlock]**, then click **[New group]**.
 - The add group screen opens.

The screenshot shows the 'Device Interlock' configuration screen in AC Manager IV. The interface includes a menu bar with 'Auto control' selected, and a toolbox with 'Device interlock' and 'New group' buttons. The main configuration area is titled 'Device Interlock' and contains a 'GROUP' configuration window. The window has a 'GROUP' text field, a 'General pe' dropdown, and a note: 'When the input conditions are true, output control command pattern is operate.' Below this are 'Input' and 'Output' tabs. The 'Input' tab is active, showing logic options: 'AND: Same condition for all devices' and 'OR: Matches device condition for 1 or more device'. There are 'Select all' and 'Edit device' buttons. A table lists device units with columns: Type, Device name, Address, ACP, Control group, Location, and Condition. The table contains 20 rows of indoor units. At the bottom, there is an 'Indoor Unit' control panel with icons for Error, Run, Stop, Auto, Cool, Heat, Dry, and Fan, along with 'Option', 'Operator', and 'Reference' dropdowns.

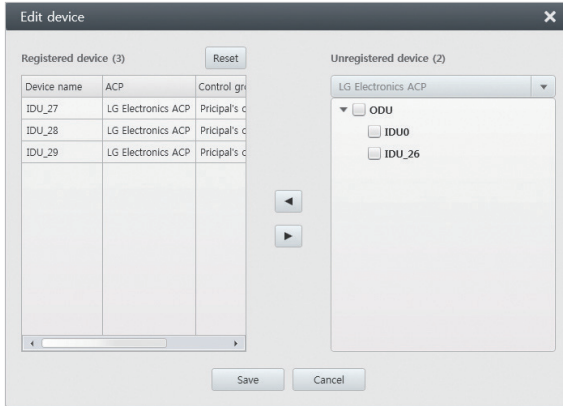
Type	Device name	Address	ACP	Control group	Location	Condition
Indoor Unit	Indoor Unit_0	00	ACP-00	Group	LG 1[Floor]	
Indoor Unit	Indoor Unit_1	01	ACP-00	Group	LG 1[Floor]	
Indoor Unit	Indoor Unit_10	10	ACP-00	Group	LG 1[Floor]	
Indoor Unit	Indoor Unit_11	11	ACP-00	Group	LG 1[Floor]	
Indoor Unit	Indoor Unit_12	12	ACP-00	Group	LG 1[Floor]	
Indoor Unit	Indoor Unit_13	13	ACP-00	Group	LG 1[Floor]	
Indoor Unit	Indoor Unit_14	14	ACP-00	Group	LG 1[Floor]	
Indoor Unit	Indoor Unit_15	15	ACP-00	Group	LG 1[Floor]	
Indoor Unit	Indoor Unit_16	16	ACP-00	Group	LG 1[Floor]	Running mode(Auto)
Indoor Unit	Indoor Unit_17	17	ACP-00	Group	LG 1[Floor]	
Indoor Unit	Indoor Unit_18	18	ACP-00	Group	LG 1[Floor]	
Indoor Unit	Indoor Unit_19	19	ACP-00	Group	LG 1[Floor]	
Indoor Unit	Indoor Unit_2	02	ACP-00	Group	LG 1[Floor]	
Indoor Unit	Indoor Unit_3	03	ACP-00	Group	LG 1[Floor]	
Indoor Unit	Indoor Unit_4	04	ACP-00	Group	LG 1[Floor]	
Indoor Unit	Indoor Unit_5	05	ACP-00	Group	LG 1[Floor]	

This screenshot shows the same 'Device Interlock' configuration screen, but with the 'Send Email' option selected in the 'Input' tab. The 'GROUP' configuration window is still visible, and the table of device units is the same. The 'Send Email' option is highlighted with a red circle and a line pointing to it.

No.	Item	Description
①	Group Name	Enter a name for the group.
②	Select pattern type	<ul style="list-style-type: none"> • General pattern <ul style="list-style-type: none"> - Pattern that runs output control demand when the input conditions are met. • Copy pattern <ul style="list-style-type: none"> - Pattern that output device follows the input device state as it is. - You can add only 1 device to the input condition, and only the device with the same attributes with the added input device is registered. • Emergency pattern <ul style="list-style-type: none"> - Pattern that is recognized as emergency situation when the input conditions are met. - Emergency icon is displayed next to the emergency pattern name to indicate emergency situation.
③	Input/Output Tabs	Inputs and outputs are separated into individual tabs.
④	Integration Conditions	(When input group setting tab is selected) Allows you to select a logical operator for the listed conditions. <ul style="list-style-type: none"> • AND: Same condition for all devices. • OR: Matches device condition for 1 or more device.
	Send e-mail	(When output group setting tab is selected) When check box is selected, if the corresponding event is run in ACP, whether the event occurred is sent to the e-mail set in System setting > error notice setting > Receiving e-mail address . (ACP needs to be connected to internet network that can send e-mail, and it is a function not supported by old type ACP.)
⑤	[Edit device] Button	Add or delete a device.
⑥	[Select all] button	Select all device list.
⑦	Device List	Displays a list of input or output devices.
⑧	Control Toolbox	Shows settings for input/output activity on each device. <ul style="list-style-type: none"> • Changes according to devices attached and other variables. (for more details, refer to Toolbox Controls per Device on page 30)

3. Enter a name for the group in the group name textbox.
4. Select pattern type.
5. Select the Input Settings tab and define the conditions for device integration.

6. To add a device, click **[Edit device]**.
 - The edit device window opens.
7. Check the box of unregistered devices you wish to add and click **[<]**.
 - To add multiple devices at one time, check multiple boxes before clicking **[<]**.
 - The selected devices are added to the device list.



8. After registering a device, click **[Save]**.
9. Select the control status that you want in the Toolbox.
10. Select output group setting tab, and select whether to send e-mail.
11. Carry out No. 6~9 procedures again one by one.
12. To save these settings, click **[Apply]**.



NOTES

- In old type ACP, device interfaced copy pattern function, emergency pattern function, and individual setting will not work.
- In old type ACP, devices except indoor unit only support input error/run and output operation functions.
- In old type ACP, input ribbon condition only supports indoor unit's 'current temperature = not selected + standard value' combination.

Editing Groups

Follow these steps to change group settings.

1. In the menu bar at the top, click **Auto control**.
2. From the Toolbox, click **[Device interlock]**.
 - The device integration screen opens.
3. Select the group to modify in the group list, then click **[Edit]** in the Toolbox.
 - The edit group screen opens.

The screenshot shows the 'Device Interlock' configuration window. At the top, there is a menu bar with 'Home', 'Control/Monitoring', 'Schedule', 'Auto control', 'Energy monitor', 'Report', 'Cycle', and 'Set'. Below the menu bar is a toolbar with 'Exit' and 'Delete' buttons. The main area is titled 'Device Interlock' and contains a 'GROUP' dropdown menu, a 'General ps' dropdown, and a 'When the input conditions are true, output control command pattern is operate.' label. Below this is a section for 'AND' and 'OR' conditions, with 'AND' selected. There are 'Select all' and 'Edit device' buttons. A table lists various indoor units with columns for Type, Device name, Address, ACP, Control group, Location, and Condition. The row for 'Indoor Unit_12' is highlighted. Below the table is a control panel with buttons for 'Error', 'Run', 'Stop', 'Auto', 'Cool', 'Heat', 'Dry', and 'Fan', along with 'Option', 'Operator', and 'Reference' dropdowns.

This screenshot shows the same 'Device Interlock' configuration window, but with the 'Send Email' option selected in the 'Input' section. The 'GROUP' dropdown is still set to 'General ps'. The table of device units is visible, with 'Indoor Unit_12' highlighted. The control panel at the bottom is also visible.

No.	Item	Description
①	Group Name	Enter a name for the group.
②	Select pattern type	<ul style="list-style-type: none"> • General pattern <ul style="list-style-type: none"> - Pattern that runs output control demand when the input conditions are met. • Copy pattern <ul style="list-style-type: none"> - Pattern that output device follows the input device state as it is. - You can add only 1 device to the input condition, and only the device with the same attributes with the added input device is registered. • Emergency pattern <ul style="list-style-type: none"> - Pattern that is recognized as emergency situation when the input conditions are met. - Emergency icon is displayed next to the emergency pattern name to indicate emergency situation.
③	Input/Output Tabs	Inputs and outputs are separated into individual tabs.
④	Integration Conditions	(When input group setting tab is selected) Allows you to select a logical operator for the listed conditions. <ul style="list-style-type: none"> • AND: Same condition for all devices. • OR: Matches device condition for 1 or more device.
	Send e-mail	(When output group setting tab is selected) When check box is selected, if the corresponding event is run in ACP, whether the event occurred is sent to the e-mail set in System setting > error notice setting > Receiving e-mail address . (ACP needs to be connected to internet network that can send e-mail, and it is a function not supported by old type ACP.)
⑤	[Edit device] Button	Add or delete a device.
⑥	[Select all] button	Select all device list
⑦	Device List	Displays a list of input or output devices.
⑧	Control Toolbox	Shows settings for input/output activity on each device. <ul style="list-style-type: none"> • Changes according to devices attached and other variables. (for more details, refer to Toolbox Controls per Device on page 30)

4. Edit the selected controls to your desired preferences.
5. To save these settings, click **[Apply]**.

Deleting Groups

Follow these steps to delete a group from the group list.

1. In the menu bar at the top, click **Auto control**.
2. From the Toolbox, click **[Device interlock]**.
 - The device integration screen opens.
3. Select the group to delete from the list and click **[Delete]** in the Toolbox.
4. When you are prompted to confirm the deletion, click **[OK]**.
 - The selected group is deleted and removed from the list.

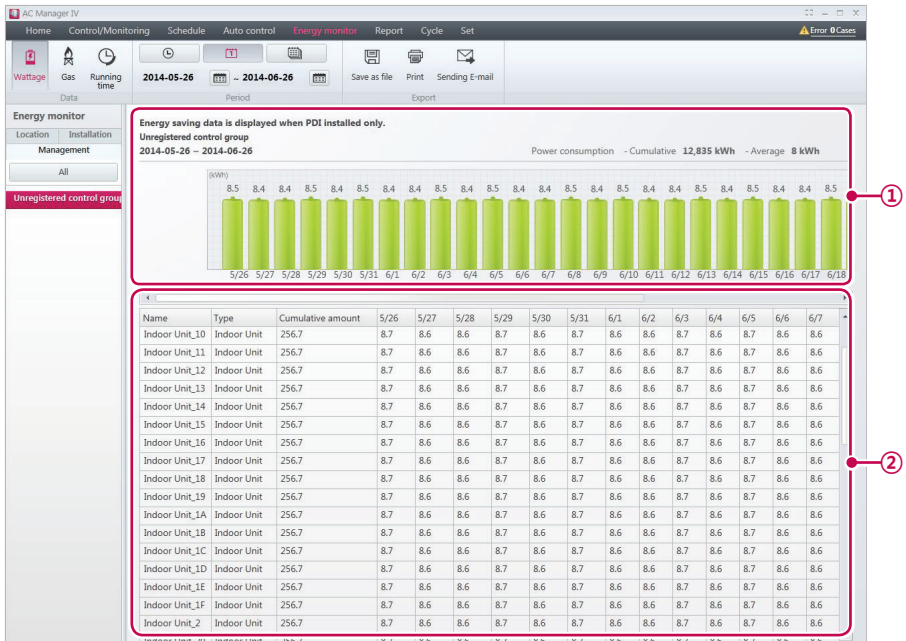
Energy Monitor

This section explains how to check the device's power consumption, gas usage amount, or operation hours with monitor value and graph.

Wattage





You can check the power consumption of each group, the power consumption of an indoor unit, and total power consumption.

1. In the menu bar at the top, click **Energy monitor**.
2. From the Toolbox, click **[Wattage]**.



No.	Item	Description
①	Power Consumption History Graph	<ul style="list-style-type: none"> • Displays the selected time period. • Displays cumulative and average consumption. • Displays history vs current for cumulative and average.
②	Energy Monitor Details	Provides detailed power consumption for the registered indoor units.

3. Set the time period in the Toolbox.

Item	Description
Time Scale	<ul style="list-style-type: none">  button: Expands the graph across a 24 hour period.  button: Expands the graph across a 92 day period.  button: Expands the graph across a 12 month period.
Set base date	<ul style="list-style-type: none"> [Current] button: Set the current date as the base date.  button: Select the desired date from the mini calendar and set as the base date.

4. To view these settings, click **[Apply]**.

- The power consumption for the selected period appears.
- To save the inquiry as a file, click **[Save as file]** . When the file save screen appears, enter a file name and click **[Save]**.
- To export the queried content to an email, press **[Export to Email]** button.
 - If the administrator accesses, **[Export to Email]** button is activated.
In **Settings > User Settings > Mail Server Settings**, complete the **Connection Test** to send the email.
- To print the inquiry, click **[Print]**.

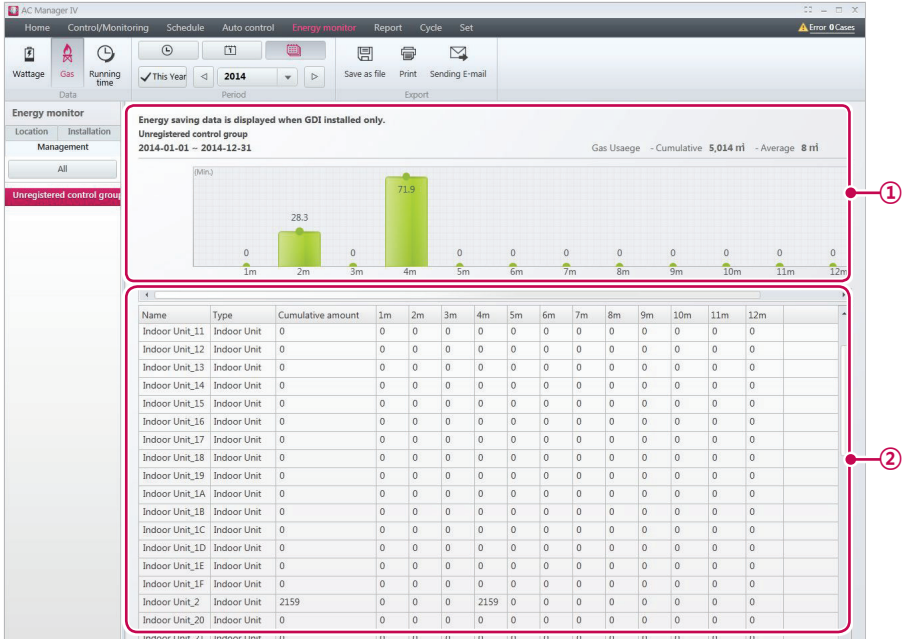
**NOTES**

- Power viewing is only possible when PDI is installed.
- **[Wattage]** is only active when Power Consumption History Graph is enabled in the system settings.
- The power consumption displayed in the program may differ from the power consumption stated in the bill.
- The Energy Monitor keeps recent one-year data only.
- Hourly data is provided only for 3 previous months.

Gas

Including gas usage amount of each group, you can check gas consumption amount and accumulated gas consumption amount of the indoor units in the group.


1. In the menu bar at the top, click **Energy monitor**.
2. From the tool box, click **[Gas]** button.



No.	Item	Description
①	Gas Consumption History Graph	<ul style="list-style-type: none"> • Displays the selected time period. • Displays cumulative and average consumption. • Displays history vs current for cumulative and average.
②	Energy Monitor Details	Provides detailed gas consumption for the registered indoor units.

3. Set the time period in the Toolbox.

Item	Description
Time Scale	<ul style="list-style-type: none"> • button: Expands the graph across a 24 hour period. • button: Expands the graph across a 92 day period. • button: Expands the graph across a 12 month period.

Item	Description
Set base date	<ul style="list-style-type: none"> • [Current] button: Set the current date as the base date. •  button: Select the desired date from the mini calendar and set as the base date.

4. To view these settings, click **[Apply]**.
- The power consumption for the selected period appears.
 - To save the inquiry as a file, click **[Save as file]** . When the file save screen appears, enter a file name and click **[Save]**.
 - To export the queried content to an email, press **[Export to Email]** button.
 - If the administrator accesses, **[Export to Email]** button is activated.
 In **Settings > User Settings > Mail Server Settings**, complete the **Connection Test** to send the email.
 - To print the inquiry, click **[Print]**.



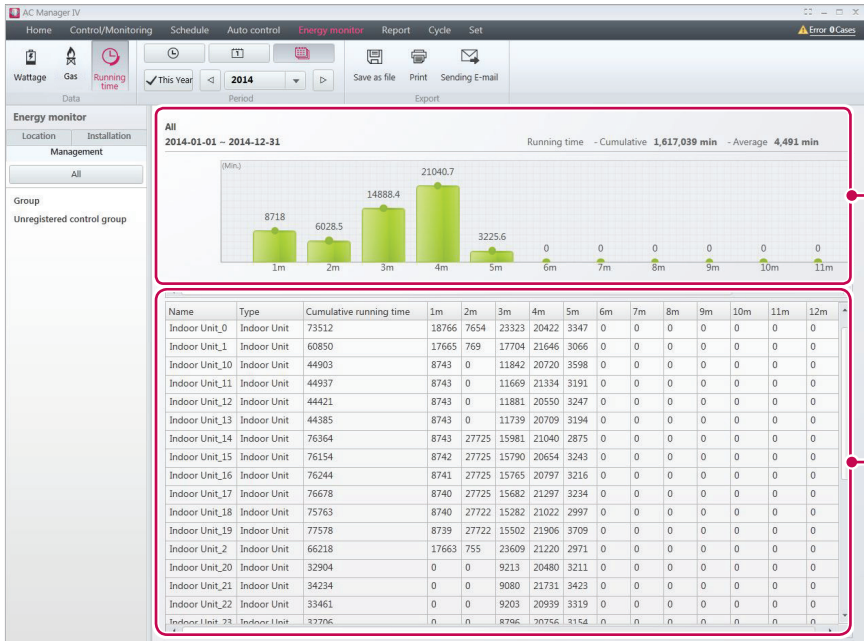
NOTES

- Gas amount viewing is only possible when GDI is installed.
- **[Gas amount]** button is activated only when 'gas usage amount display' is set in the system setting.
- The gas amount displayed in the program may differ from the gas amount stated in the bill.
- The Energy Monitor keeps recent one-year data only.
- Hourly data is provided only for 3 previous months.

Running time

You can check the operating time of each group and the total operating time for indoor units.

1. In the menu bar at the top, click **Energy monitor**.
2. In the Toolbox, click **[Running time]**.



No.	Item	Description
①	Displays the selected period and operating times.	<ul style="list-style-type: none"> • Displays the selected time period. • Displays total operating time and average operating time. • Displays history vs current for cumulative and average.
②	Energy Monitor Details	Provides detailed operating time for the registered indoor units.

3. Set the time period in the Toolbox.

Item	Description
Time Scale	<ul style="list-style-type: none"> • button: Expands the graph across a 24 hour period. • button: Expands the graph across a 92 day period. • button: Expands the graph across a 12 month period.
Set base date	<ul style="list-style-type: none"> • [Current] button: Set the current date as the base date. • button: Select the desired date from the mini calendar and set as the base date.

4. To view these settings, click **[Apply]**.
 - The operating time for the selected period appears.
 - To save the inquiry as a file, click **[Save as file]** . When the file save screen appears, enter a file name and click **[Save]**.
 - To export the queried content to an email, press **[Export to Email]** button.
 - If the administrator accesses, **[Export to Email]** button is activated.
In **Settings > User Settings > Mail Server Settings**, complete the **Connection Test** to send the email.
 - To print the inquiry, click **[Print]**.



NOTES

- The Energy Monitor keeps recent one-year data only.
- Hourly data is provided only for 3 previous months.

Report

Explains how to inquire the device operation log or installation status.

Working history

You can generate reports on the status and activity of devices.


1. In the menu bar at the top, click **Report**.
2. From the Toolbox, click **[Working history]**.
 - The operation log screen opens.

The screenshot shows the AC Manager IV software interface. At the top, the 'Report' menu item is highlighted with a red circle 1. Below the menu bar, the 'Working history' button in the toolbox is highlighted with a red circle 2. The main report screen displays a table of events with columns: Date time, Category, Device name, Address, Device type, Main agent, Reference Code, Detail, Location group, and ACP. The table is titled 'Working history' and shows 'Number of events: 67' and 'Date range: 2014-05-18'. A red circle 3 highlights the table content.

Date time	Category	Device name	Address	Device type	Main agent	Reference Code	Detail	Location group	ACP
2014-05-18 PM 02:15	Event	Indoor Unit_0	00	Indoor Unit	ACP	Schedule	Replace	-	ACPO0
2014-05-18 PM 02:15	Event	Indoor Unit_0	00	Indoor Unit	-	Replace filter	Replace	-	ACPO0
2014-05-18 PM 02:15	Event	Indoor Unit_0	00	Indoor Unit	ACP	Schedule	-	-	ACPO0
2014-05-18 PM 02:15	Event	Indoor Unit_0	00	Indoor Unit	-	Replace filter	Replace	-	ACPO0
2014-05-18 PM 02:34	Control	Indoor Unit_0	00	Indoor Unit	AC Manager I	Control	ON By a	-	ACPO0
2014-05-18 PM 02:34	Control	Indoor Unit_0	00	Indoor Unit	AC Manager I	Control	ON By a	-	ACPO0
2014-05-18 PM 02:33	Event	Indoor Unit_0	00	Indoor Unit	-	Replace filter	Replace	-	ACPO0
2014-05-18 PM 02:32	Event	Indoor Unit_0	00	Indoor Unit	-	Replace filter	Replace	-	ACPO0
2014-05-18 PM 02:31	Event	Indoor Unit_0	00	Indoor Unit	-	Replace filter	Replace	-	ACPO0
2014-05-18 PM 02:31	Event	Indoor Unit_0	00	Indoor Unit	-	Replace filter	Replace	-	ACPO0
2014-05-18 PM 02:31	Event	Indoor Unit_0	00	Indoor Unit	-	Replace filter	Replace	-	ACPO0
2014-05-18 PM 02:30	Event	Indoor Unit_0	00	Indoor Unit	-	Replace filter	Replace	-	ACPO0
2014-05-18 PM 02:29	Event	Indoor Unit_0	00	Indoor Unit	ACP	Schedule	-	-	ACPO0
2014-05-18 PM 02:29	Event	Indoor Unit_0	00	Indoor Unit	-	Replace filter	Replace	-	ACPO0
2014-05-18 PM 02:29	Event	Indoor Unit_0	00	Indoor Unit	ACP	Schedule	-	-	ACPO0
2014-05-18 PM 02:28	Event	Indoor Unit_0	00	Indoor Unit	-	Replace filter	Replace	-	ACPO0
2014-05-18 PM 02:28	Event	Indoor Unit_0	00	Indoor Unit	ACP	Schedule	-	-	ACPO0
2014-05-18 PM 02:28	Event	Indoor Unit_0	00	Indoor Unit	-	Replace filter	Replace	-	ACPO0
2014-05-18 PM 02:28	Event	Indoor Unit_0	00	Indoor Unit	ACP	Schedule	-	-	ACPO0
2014-05-18 PM 02:28	Event	Indoor Unit_0	00	Indoor Unit	-	Replace filter	Replace	-	ACPO0

No.	Item	Description
①	Event Count/Date Range	<ul style="list-style-type: none"> • Event Count: Displays the number of events in the report. • Date Range: Displays the selected date range.
②	[Previous page] / [Next page] button	<ul style="list-style-type: none"> • Move to the previous/next page of the viewed history contents • You can view up to 20,000 lists in one page
③	Operation Log	Displays a history of operations for each device.

3. Set the time period in the Toolbox.

Item	Description
Reference Dates	<ul style="list-style-type: none"> • [Current] button: Set the current date as the base date. •  button: Select the desired date from the mini calendar (You can view up to 1 year.)

4. Select the desired device and event filters in the Toolbar.

- You can check multiple filters.

5. To view these settings, click **[Apply]**.

- The operation log for the selected period appears.
- To save the inquiry as a file, click **[Save as file]** . When the file save screen appears, enter a file name and click **[Save]**.
- To print the inquiry, click **[Print]**.

**NOTES**

The Reports keeps recent one-year data only.

Installation Status

You can generate a report on device settings of the installed devices.

1. In the menu bar at the top, click **Report**.
2. From the Toolbox, click **[Installation status]**.
 - The installation status screen opens.

AC Manager IV

Home Control/Monitoring Schedule Auto control Energy monitor **Report** Cycle Set

Working history Installation status

Report Device Export

Installation status Number of devices : 91

Address	Type	Device name	ACP	Control group	Location group
ACP:00	ACP	ACP	ACP	-	-
ACP:00_Chiller_03	Chiller (Absorption type)	Absorption	ACP	Group	LG 1[Floor]
ACP:00_AHU_00	AHU	AHU_0	ACP	Group	LG 1[Floor]
ACP:00_AHU_01	AHU	AHU_1	ACP	Group	LG 1[Floor]
ACP:00_AHU_02	AHU	AHU_2	ACP	Group	LG 1[Floor]
ACP:00_AHU_03	AHU	AHU_3	ACP	Group	LG 1[Floor]
ACP:00_AHU_04	AHU	AHU_4	ACP	Group	LG 1[Floor]
ACP:00_AHU_05	AHU	AHU_5	ACP	Group	LG 1[Floor]
ACP:00_AHU_06	AHU	AHU_6	ACP	Group	LG 1[Floor]
ACP:00_AHU_07	AHU	AHU_7	ACP	Group	LG 1[Floor]
ACP:00_AHU_08	AHU	AHU_8	ACP	Group	LG 1[Floor]
ACP:00_AHU_09	AHU	AHU_9	ACP	Group	LG 1[Floor]
ACP:00_AWHP_00	AWHP	AWHP_0	ACP	Group	LG 1[Floor]
ACP:00_AWHP_01	AWHP	AWHP_1	ACP	Group	LG 1[Floor]
ACP:00_AWHP_02	AWHP	AWHP_2	ACP	Group	LG 1[Floor]
ACP:00_AWHP_03	AWHP	AWHP_3	ACP	Group	LG 1[Floor]
ACP:00_AWHP_04	AWHP	AWHP_4	ACP	Group	LG 1[Floor]
ACP:00_AWHP_05	AWHP	AWHP_5	ACP	Group	LG 1[Floor]
ACP:00_AWHP_06	AWHP	AWHP_6	ACP	Group	LG 1[Floor]
ACP:00_AWHP_07	AWHP	AWHP_7	ACP	Group	LG 1[Floor]
ACP:00_AWHP_08	AWHP	AWHP_8	ACP	Group	LG 1[Floor]
ACP:00_AWHP_09	AWHP	AWHP_9	ACP	Group	LG 1[Floor]
ACP:00_DL_01	DI	DL_1	ACP	Group	LG 1[Floor]
ACP:00_DL_02	DI	DL_2	ACP	Group	LG 1[Floor]
ACP:00_DO_01	DO	DO_1	ACP	Group	LG 1[Floor]
ACP:00_DO_02	DO	DO_2	ACP	Group	LG 1[Floor]

No.	Item	Description
①	Device Count	Displays the number of devices in the report.
②	Installation Status	Displays a installation status list for all devices.

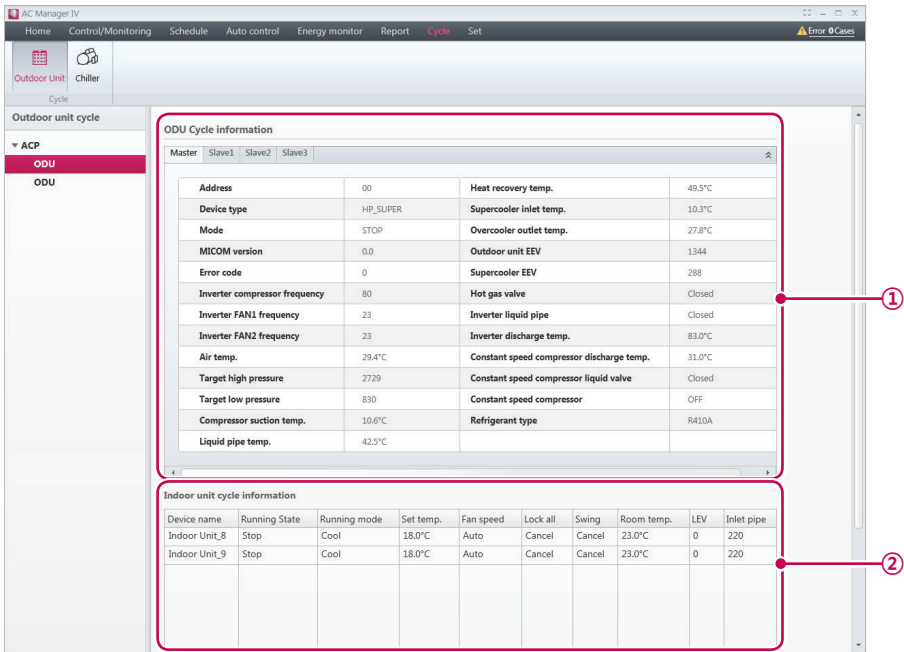
3. Select the desired device filters in the Toolbox.
 - You can check multiple filters.
4. To view these settings, click **[Apply]**.
 - Installation Status appears.
 - To save the inquiry as a file, click **[Save as file]** . When the file save screen appears, enter a file name and click **[Save]**.
 - To print the inquiry, click **[Print]**.

Cycle

This tab displays the cycle information for the IDU/ODU and the Chiller.

Outdoor Unit

1. In the menu bar at the top, click **Cycle**
2. From the Toolbox, click **[Outdoor Unit]**.
 - The outdoor unit cycle screen opens.



No.	Item	Description
①	Outdoor Unit Cycle Info	Displays master/slave information on outdoor units.
②	Indoor Unit Cycle Info	Displays information on all indoor units that are connected to outdoor units.

3. Select an outdoor unit in the ACP list to display cycle information.
 - The cycle information for the selected outdoor unit is displayed to the right.

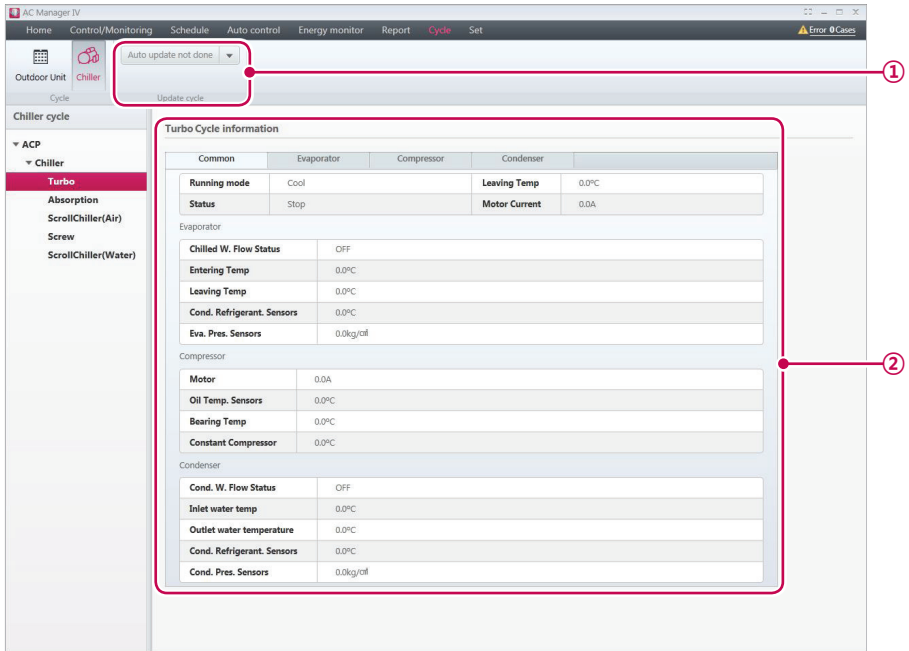


NOTES

You can only query when the installed outdoor unit provides cycle information.

Chiller

1. In the menu bar at the top, click **Cycle**
2. From the Toolbox, click [**Chiller**].
 - The Chiller Cycle screen opens.



No.	Item	Description
①	Update cycle	Set Chiller Cycle's information update cycle (30 Seconds / 1 Minute / 2 Minute / 5 Minute / 10 Minute / 1 Hour / 2 Hours / Auto update not done)
②	Chiller Cycle Information	Displays the Common/Cycle information for the Chiller.

3. Select an Chiller in the ACP list to display cycle information.
 - The cycle information for the selected Chiller is displayed to the right.

Set

This section explains how to set the device and system after installing AC Manager VI.

Device Setting

You can add an ACP or other device and change the settings of registered devices.



NOTES

- ACP should be added , you can add the device.
- If ACP or device setting is changed, schedule and automatic control setting contents may be deleted.

Adding ACP

Follow these steps to add an additional ACP.

1. In the menu bar at the top, click **Set**.
2. From the Toolbox, click [**Device setting**], then click [**Add ACP**].
3. Enter the settings of the new ACP in the edit device screen.

Add device

Type

Outdoor Unit
 ERV
 AWHP
 AHU
 Chiller
 On/Off device
 DI
 DO

Indoor Unit
 EXP. I/O

Set

ACP name

Address

IP . . .

ACP model ▼

Port 9200

Item	Description
ACP name	Give a name to the ACP for easy recognition.
Address	The software address of the ACP.
IP	The IP address of the ACP. (Use a static IP when using AC Manager VI.)
ACP model	Click [▼] to select a ACP type (Standard / Premier / AC Smart Premium/ Old ACP/ ACP IV/ AC Smart IV).
Port	The port number assigned to the ACP.

4. To save these settings, click [**Apply**].

Import ACP Settings

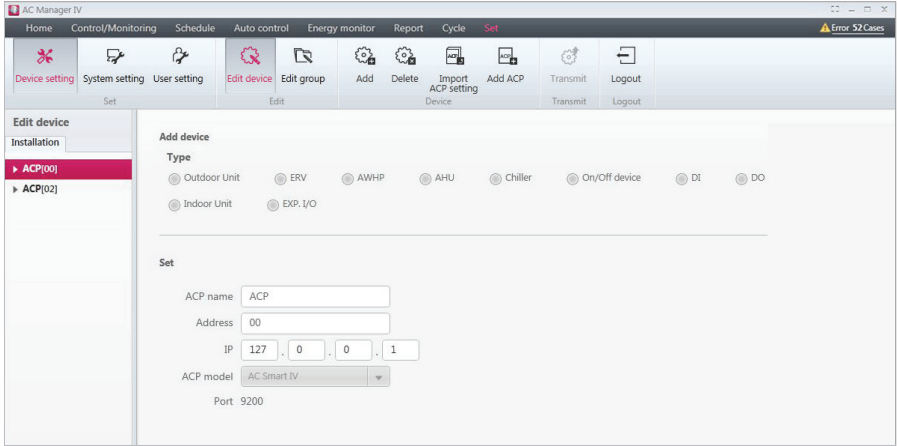
You can import ACP settings from previously registered device.

1. In the menu bar at the top, click **Set**.
2. From the Toolbox, click **[Device setting]**.
 - The device edit screen opens by default.
3. Select an ACP from the installation list, then click **[Import ACP setting]**.
 - The import settings window opens.
4. To overwrite the current settings with the imported settings, click **[OK]**.
 - The imported ACP settings are immediately applied.

Add Device

Follow these steps to add a new device to the device list.

1. In the menu bar at the top, click **Set**.
2. From the Toolbox, click **[Device setting]**.
 - The device edit screen opens by default.



Item	Description
Type	The device type appears differently depending on the hierarchical group of that device.
Settings	Different setting items are displayed depending on the selected device (for the details on the individual device settings, refer to Individual Device Settings on page 105).

3. Select a hierarchical group for the added device.
 - In the device list, when you select ACP, you can add outdoor unit, ventilation, AHU, AWHP, ON/OFF, DI, DO, Chiller, and Exp.I/O.
 - If you select outdoor unit in the device list, you can only add indoor units.
4. From the Toolbox, click **[Add]**.
5. Select the type of device to add.
 - The device types shown differ depending on the hierarchical group of the device.
6. Enter the device settings.
 - You may see different settings available depending on the device. For details, refer to **Individual Device Settings** on page 105.
7. To save these settings, click **[Apply]**.
8. To complete Add Device, click **[Transmit]**.

Individual Device Settings

Individual Device Settings are as follows.

■ Outdoor Units

Add device

Type

Outdoor Unit
 ERV
 AWH/P
 AHU
 Chiller
 On/Off device
 DI
 DO
 Indoor Unit
 EXP. I/O

Set

ACP name

Address

Name

Model

Capacity

Outdoor unit capacity control function Support Not applied

Add in batch

Item	Description
ACP name	The hierarchical ACP for the selected device.
Address	The software address of the device.
Name	<ul style="list-style-type: none"> The name of the device shown in the system. When adding a batch of devices, use the "Device type_Device address" format for names.
Model	The product model of the device.
Capacity	The product capacity of the device.
Outdoor unit capacity control function	Indicate if the unit supports capacity control.
Add in batch	When this box is checked, the device will be added in a batch. (When adding in batch, address conflicts generate warnings)

Indoor Units

Add device

Type

Outdoor Unit
 ERV
 AWHP
 AHU
 Chiller
 On/Off device
 DI
 DO

Indoor Unit
 EXP. I/O

Set

ACP name: ACP

Outdoor unit name: ODU

Address:

Name:

Model:

Type: ▼

Capacity:

Function to clear filter alarm: Support Not applied

Add in batch

Item	Description
ACP name	The hierarchical ACP for the selected device.
Outdoor unit name	The name of the connected outdoor unit.
Address	The software address of the device.
Name	<ul style="list-style-type: none"> The name of the device shown in the system. When adding a batch of devices, use the "Device type_Device address" format for names.
Model	The product model of the device.
Type	Select the type of indoor unit.
Capacity	The product capacity of the device.
Function to cancel filter alarm	Indicate if the filter alarm on the device can be disabled.
Add in batch	When this box is checked, the device will be added in a batch. (When adding in batch, address conflicts generate warnings)

■ ERV

Add device

Type

Outdoor Unit
 ERV
 AWHP
 AHU
 Chiller
 On/Off device
 DI
 DO

Indoor Unit
 EXP. I/O

Set

ACP name ACP

Type

Address

Name

Model

Capacity

Add in batch

Item	Description
ACP name	The hierarchical ACP for the selected device.
Address	The software address of the device.
Name	<ul style="list-style-type: none"> The name of the device shown in the system. When adding a batch of devices, use the "Device type_Device address" format for names.
Model	The product model of the device.
Type	Select a ventilator type.
Capacity	The product capacity of the device.
Add in batch	When this box is checked, the device will be added in a batch. (When adding in batch, address conflicts generate warnings)

■ AWHP

Add device

Type

Outdoor Unit
 ERV
 AWHP
 AHU
 Chiller
 On/Off device
 DI
 DO

Indoor Unit
 EXP. I/O

Set

ACP name

Address

Name

Model

Capacity

Temperature display
 Room temp.
 Outlet water
 Inlet Water
 Indoor

Set temp.
 Outlet water
 Indoor

Add in batch

Item	Description
ACP name	The hierarchical ACP for the selected device.
Address	The software address of the device.
Name	<ul style="list-style-type: none"> The name of the device shown in the system. When adding a batch of devices, use the "Device type_Device address" format for names.
Model	The product model of the device.
Capacity	The product capacity of the device.
Temperature display	Select which temperature measurement to display.
Add in batch	When this box is checked, the device will be added in a batch. (When adding in batch, address conflicts generate warnings)

■ AHU

Add device

Type

Outdoor Unit
 ERV
 AWHP
 AHU
 Chiller
 On/Off device
 DI
 DO

Indoor Unit
 EXP. I/O

Set

ACP name: ACP

Address:

Name:

Model:

Basic mode: Cool For Cooling/Heating

AHU type: General
 Out-air unit (General)
 Out-air unit (Heat Return)
 Compact (Single Fan)

Modular General
 Modular heatrecovery

Additional mode: None
 Dry
 Power save
 Dry, power save

Additional function: None
 Auto Ventilation
 Humidifier
 Auto ventilation, humidify

Standards set of room temp.: Standard Supply
 Standard Vent

Add in batch

Item	Description
ACP name	The hierarchical ACP for the selected device.
Address	The software address of the device.
Name	<ul style="list-style-type: none"> The name of the device shown in the system. When adding a batch of devices, use the "Device type_Device address" format for names.
Model	The product model of the device.
Basic mode	Select between cooling or cooling/heating mode.
AHU type	Select the AHU type.
Additional modes	Select any additional operating modes the device supports.
Additional function	Select any additional features the device supports.
Standards of room temp.	Select standards set of room temp between Supply or Vent.
Add in batch	When this box is checked, the device will be added in a batch. (When adding in batch, address conflicts generate warnings)

■ Chiller

Add device

Type

Outdoor Unit
 ERV
 AWHP
 AHU
 Chiller
 On/Off device
 DI
 DO

Indoor Unit
 EXP. I/O

Set

ACP name: ACP

Type:

Address:

Name:

Running mode: **Cool/Heat/Ice**

Add in batch

Item	Description
ACP name	The hierarchical ACP for the selected device.
Type	Select the Chiller type.
Address	The software address of the device.
Name	<ul style="list-style-type: none"> The name of the device shown in the system. When adding a batch of devices, use the "Device type_Device address" format for names.
Running mode	(When scroll chiller is selected) <ul style="list-style-type: none"> Select cooling only or operation mode from cooling/heating. (When the remaining chillers are selected) <ul style="list-style-type: none"> You cannot select operation mode.
Add in batch	When this box is checked, the device will be added in a batch. (When adding in batch, address conflicts generate warnings)



NOTES

Chiller is optional feature, it can not be supported.

■ On/Off device

Add device

Type

Outdoor Unit
 ERV
 AWHP
 AHU
 Chiller
 On/Off device
 DI
 DO

Indoor Unit
 EXP. I/O

Set

ACP name ACP

Address

Name

Add in batch

Item	Description
ACP name	The hierarchical ACP for the selected device.
Address	The software address of the device.
Name	<ul style="list-style-type: none"> The name of the device shown in the system. When adding a batch of devices, use the "Device type_Device address" format for names.
Add in batch	When this box is checked, the device will be added in a batch. (When adding in batch, address conflicts generate warnings)

■ DI/DO

Add device

Type

Outdoor Unit
 ERV
 AWHP
 AHU
 Chiller
 On/Off device
 DI
 DO

Indoor Unit
 EXP. I/O

Set

ACP name ACP

Name

Port

Add in batch

Item	Description
ACP name	The hierarchical ACP for the selected device.
Name	<ul style="list-style-type: none"> The name of the device shown in the system. When adding a batch of devices, use the "Device type_Device address" format for names.
Port	The port number assigned to the device.
Add in batch	When this box is checked, the device will be added in a batch. (When adding in batch, address conflicts generate warnings)

■ Exp.I/O

Add device

Type

Outdoor Unit
 ERV
 AWHP
 AHU
 Chiller
 On/Off device
 DI
 DO

Indoor Unit
 EXP. I/O

Set

ACP name ACP

Type

Address

Name

Add in batch

Item	Description
ACP name	Upper level ACP name of the corresponding device.
Type	Select Exp.I/O type.
Address	The software address of the device.
Name	<ul style="list-style-type: none"> The name of the device shown in the system. When adding a batch of devices, use the "Device type_Device address" format for names.
Add in batch	When this box is checked, the device will be added in a batch. (When adding in batch, address conflicts generate warnings)



NOTES

- You can connect up to 15 devices to 1 MODBUS port. (Chiller, Modular_Ahu, Exp.I/O)
- Lower port must be set for Exp.I/O after adding a device.

• Exp.I/O lower level setting

Set

Address/Port	Type	DeviceName
01,00	AO	AO[01/00]
01,01	AO	AO[01/01]
01,02	AO	AO[01/02]
01,03	AO	AO[01/03]
01,04	UI	UI[01/04]
01,05	UI	UI[01/05]
01,06	UI	UI[01/06]
01,07	UI	UI[01/07]
01,08	DO	DO[01/08]
01,09	DO	DO[01/09]
01,0A	DO	DO[01/0A]
01,0B	DI	DI[01/0B]
01,0C	DI	DI[01/0C]
01,0D	DI	DI[01/0D]

Whether used Use Unused

ACP name: ACP

Name:

Icon: Defaulticon

Purpose:

I/O type:

UnitSymbols:

Display range: Min Max

Control type:

Signal type:

Adjust:

Item	Description
Whether used	Select whether to use the device.
ACP name	Upper level ACP name of the corresponding device.
Name	Name of the corresponding device.
Icon	Select the device's icon.
Purpose	Select the usage of the device (Usage selection is different according to I/O type.) <ul style="list-style-type: none"> • Status information: Run/stop, Open/Short, Normal/Warning alarm, Open/Closed, ON/OFF, Occupied/Out, 0/1. • Number information: temperature, humidity, opening, water level, operation ratio, concentration, pressure.
I/O type	Select I/O type (BI or VOL, CUR, PT1000, NTC10K, NI1000)
Unit symbol	Select unit symbol. <ul style="list-style-type: none"> • It is flexibly changed according to the usage selection.
Display range	Maximum/minimum value input.
Control type	Set minimum unit value that AO can control.
Signal type	Select signal boundary according to I/O type.
Adjust	Input correction value. <ul style="list-style-type: none"> • You can input up to 5 digits.

Edit Device

You can change the settings of registered devices.

1. In the menu bar at the top, click **Set**.
2. From the Toolbox, click **[Device setting]**.
 - The device edit screen opens by default.
3. Select the device to edit from the list.
 - The edit device screen opens to show the device information.
4. Change the device settings in the edit device screen.
 - You may see different settings available depending on the device. For details, refer to **Individual Device Settings** on page 105.
5. To save these settings, click **[Apply]**.
6. To complete Edit Device, click **[Transmit]**.

Delete Device

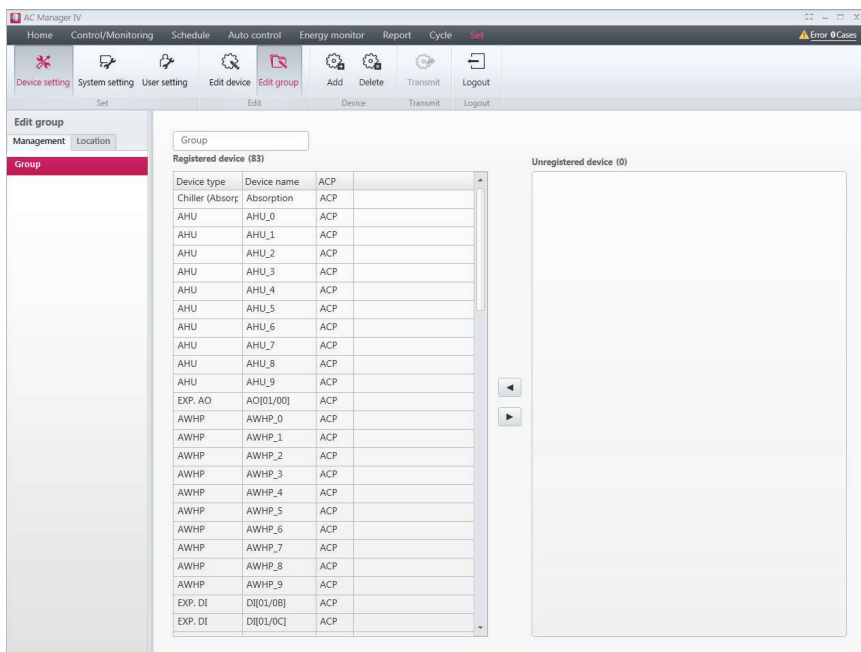
Follow these steps to delete a device from the list.

1. In the menu bar at the top, click **Set**.
2. From the Toolbox, click **[Device setting]**.
 - The device edit screen opens by default.
3. Select the device to delete from the list.
4. From the Toolbox, click **[Delete]**.
5. When you are prompted to confirm the deletion, click **[OK]**.
 - The selected device is deleted and removed from the list.
6. To complete Delete Device, click **[Transmit]**.

Adding Groups

Follow these steps to add a new group.

1. In the menu bar at the top, click **Set**.
2. From the Toolbox, click **[Device setting]**, then click **[Edit group]**.
 - The edit group screen opens.

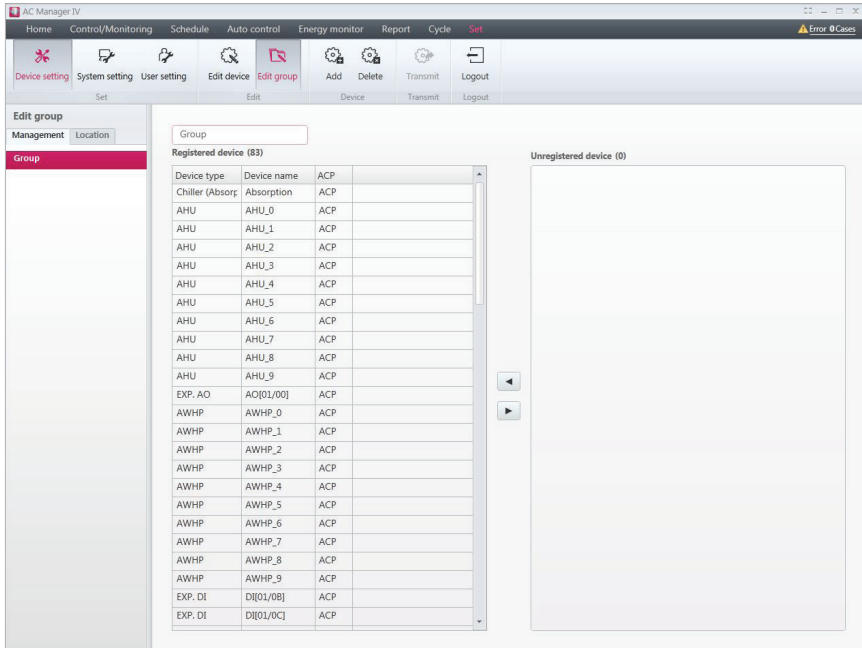


3. In the group list, click the appropriate tab (**Management**, **Location**).
4. Click **[Add]** button.
 - The add group screen opens.
5. If you selected the **Management** tab in step 3, you can add the group name.
6. If you selected the **Location** tab in step 3, you can type the building name, number of floors, and description.
7. To register a new device in the device list, check the box of the device you wish to add in the unregistered device list and click **[◀]** button.
8. To save these settings, click **[Apply]**.

Editing Groups

Follow these steps to change group settings.

1. In the menu bar at the top, click **Set**.
2. From the Toolbox, click [**Device setting**], then click [**Edit group**].
 - The edit group screen opens.



3. In the group list, click the appropriate tab (**Management, Location**).
4. Select a group.
5. If you selected the **Management** tab in step 3, you can modify the group name.
6. If you selected the **Location** tab in step 3, you can modify the building name, number of floors, and description.
7. To remove a device from the registered device list, select the device in the list and [**▶**].
8. To register a new device in the device list, check the box of the device you wish to add in the unregistered device list and click [**◀**] button.
9. To save these settings, click [**Apply**].

Deleting Groups

Follow these steps to delete a group from the group list.

1. In the menu bar at the top, click **Set**.
2. From the Toolbox, click **[Device setting]**, then click **[Edit group]**.
 - The edit group screen opens.
3. Select the group to delete from the list and click **[Delete]** in the Toolbox.
4. When you are prompted to confirm the deletion, click **[OK]**.
 - The selected group is deleted and removed.

System Setting

This section explains how to set the system environment of AC Manager VI.

Basic setting

Follow these steps to set or change the default system environment.

1. In the menu bar at the top, click **Set**.
2. From the Toolbox, click [**System setting**].
3. In the system settings list, press [**Basic Setting**] button.
 - The default setting screen opens.
4. Set the control environment for AC Manager VI as desired.

The screenshot shows the 'Basic-setting' window in AC Manager VI. The window title is 'AC Manager VI'. The menu bar includes 'Home', 'Control/Monitoring', 'Schedule', 'Auto control', 'Energy monitor', 'Report', 'Cycle', and 'Set'. The left sidebar shows 'System setting', 'Basic-setting' (selected), and 'Error Notifying Setting'. The main content area contains the following settings:

- Title:** AC Manager VI
- Language:** English
- Temperature:** Celsius 1°C
- View By Group:** Set (selected), Cancel
- Select peak/demand control:** Peak control (selected), Demand control
- Display power consumption:** Set (selected), Cancel
- Display Gas consumption:** Set (selected), Cancel
- View group summary:** Show (selected), Hide
- SettingDamper:** Set, Cancel (selected)
- Set of regular Backup:** Set (selected), Cancel
- Reference date for energy statistics:** 9 Day
- GasBasicDate:** 1 Day
- RunTime Basic Date:** 1 Day
- Set the reference date to calculate monthly statistics:** For example, select 15th to calculate from 15th to the 14th of next month on a monthly basis.
- Set schedule exception date:** Set
- schedule registration of exceptions device:** Set
- Data backup:** Backup, Apply to backup file

Item	Description
Title	Name the setting configuration for easy reference.
Language	Click [▼] to select a language (한국어/ English/ Español/ Português/ Italiano/ Turkish/ Deutsch/ Polski/ Русский/ Français/ 中国的/ User language).
Temperature	Click [▼] to select a control temperature unit type you want (Celsius 1°C / Celsius 0.5°C / Fahrenheit 1°F).

Item	Description
Filter replacement alarm	Choose to show or hide the filter replace alarm in the system.
View By Group	<p>Set / Cancel the devices of the selected groups in Control/Monitoring</p> <ul style="list-style-type: none"> • If multiple devices are registered, set as 'Set'. • If you select to Cancel, the program may slow depending on the performance of the PC.
Select peak / demand control	<ul style="list-style-type: none"> • Peak Control: You can use peak control feature in the auto control menu. • Demand Control: You can use the demand control feature in the auto control menu.
Display power consumption	Select whether to display power consumption in AC Manager VI screen.
Display gas usage amount	Select whether to display gas usage amount in AC Manager VI screen.
View group summary	You can show or hide the status of devices in groups in Control/Monitoring.
Set Damper	<p>Select whether to set damper opening.</p> <ul style="list-style-type: none"> • If damper opening is set, it runs as OA=EA, OA+MIX=90.
Set of regula Backup	<ul style="list-style-type: none"> • Stored once in early month. • Files are stored in folders 'DBDATA'. • The backup data is saved only six months.
Reference date for energy statistics	<p>Click [▼] to select a date.</p> <ul style="list-style-type: none"> • Select a reference date for monthly power consumption computations. • Calculations are made across one calendar month starting from the selected date.
Gas Basic Date	<p>Click [▼] to select a date.</p> <ul style="list-style-type: none"> • Set the base date to calculate the monthly gas amount used in the statistics item. • Calculations are made across one calendar month starting from the selected date.
Run Time Basic Date	<p>Click [▼] to select a date.</p> <ul style="list-style-type: none"> • Set the base date to calculate the monthly operation hours used in the statistics item. • Calculations are made across one calendar month starting from the selected date.
Set schedule exception date	Manage schedule exception dates.
Schedule registration of exceptions device	It is the function to set the device to except from the schedule setting in advance.

Item	Description
Data backup	<ul style="list-style-type: none"> • Backup: Immediately backup data as a .csv file. • Apply to backup file: Set a file to regularly backup data. The file is overwritten with each backup.

5. To save these settings, click **[Apply]**.




CAUTION

- If ACP is connected to link with AC Manager VI, do not use ACP to use Peak Control directly. ACP operates based on the peak operation rate settings of AC Manager VI.
- If the target operation rate is controlled by AC Manager VI, it should be that AC Manager VI = Peak Control and ACP = Demand Control. If the target operation rate is controlled by Demand Controller, it should be that AC Manager VI = Demand Control and ACP = Demand Control. If the target operation rate is controlled by ACP, it should be that AC Manager VI = Demand Control and ACP = Peak Control.

Setting Exceptions

Follow these steps to add or delete exception dates.

1. Navigate to **System setting > Basic setting [Setting]** to schedule exception dates.
 - The exception setting screen opens.
2. Delete or add exception dates as desired.

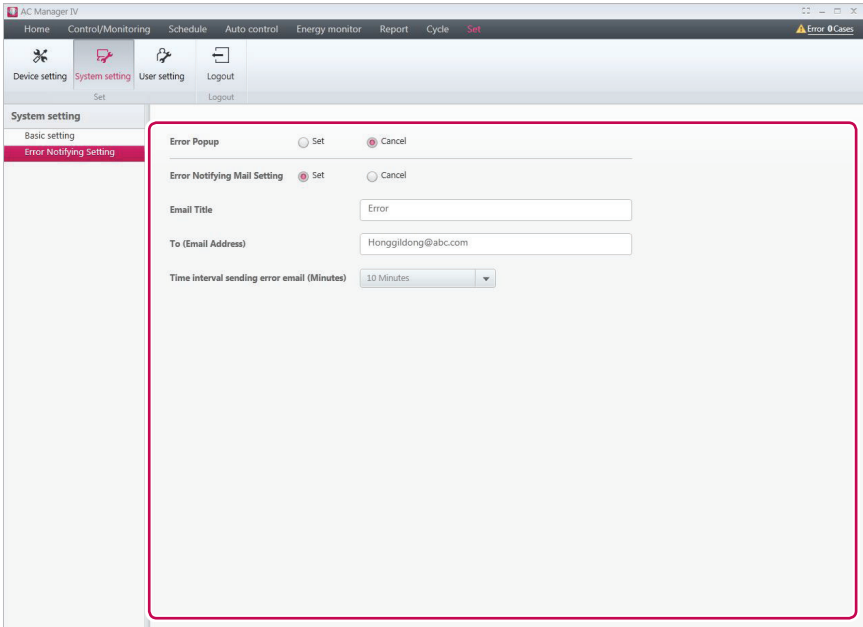
No.	Item	Description
①	Delete Selected	Delete the selected exception date.
②	Add Exception	<ul style="list-style-type: none"> • Add an additional exception date. •  Select exception dates to add by clicking → Enter a name for the exception in the input box.

3. To save these settings, click **[Save]**.

Error Notifying Setting

You can set or change the error notification.

1. In the menu bar at the top, click **Set**.
2. From the Toolbox, click **[System setting]**.
3. In the system settings list, click **[Error Notifying Setting]** button.
 - Error Notification Settings screen is displayed.
4. Set the control environment for AC Manager VI as desired.

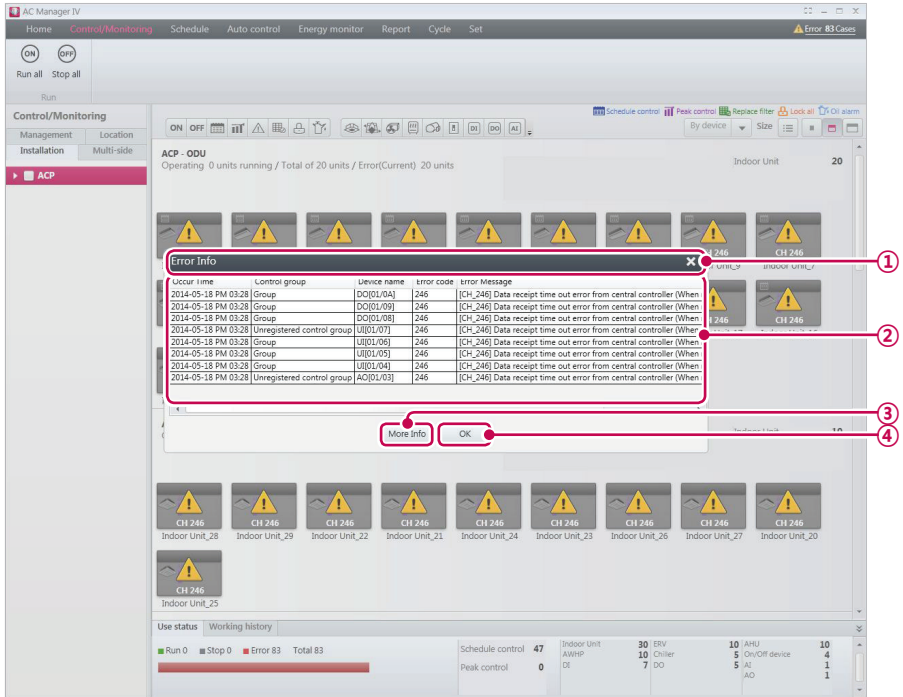


Item	Description
Error Popup	Select to turn on (or off) a popup that shows a list of errored devices.
Error Notifying Mail Setting	Selects to send (or send not) the address and error code of an errored device by email.
Email Title	Select the email address.
To (Email Address)	Type the email address of the receiver.
Time interval sending error email (Minutes)	Select a send cycle for error occurrence. (10 Minute / 20 Minute / 30 Minute / 40 Minute / 50 Minute / 60 Minute)

5. To save these settings, click **[Apply]**.

Error Message Popup

An error occurs during using the program, the error popup message is displayed.



No.	Item	Description
①	Title display	Displays the error popup message.
②	Information display	Provides information on the error. - Displays up to 8 errors in the order of occurrence.
③	[More Info]	Report > Working history > Error page to provide detailed information.
④	[OK]	Closes the popup message.



NOTES

If you don't want to display error popup messages, go to **Setting > System Setting** and, in **Error Notifying Setting**, turn off Error Popup.

Class B device

**NOTES**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**CAUTION**

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

**Disposal of your old appliance**

1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

User Settings

This section explains how to set AC Manager VI users

Administrator

Only the administrator account can change user environments.

1. In the menu bar at the top, click **Set**.
2. From the Toolbox, click **[User setting]**.
3. Click the **Administrator** user in the user list.
 - The setting screen for the administrator opens. Modify the user settings and system environment as desired.

Item	Description
Set Password	<ul style="list-style-type: none"> • Change the user's password if desired. - Current password: Enter user's current password. - New password: Enter a new password. - Check new password: Enter the new password one more time.
Information	<ul style="list-style-type: none"> • Modify the user's personal information. • Name: Enter the user's name. • E-mail: Enter the user's e-mail address. • Contact Number: Enter a phone number or a mobile number to contact this user.

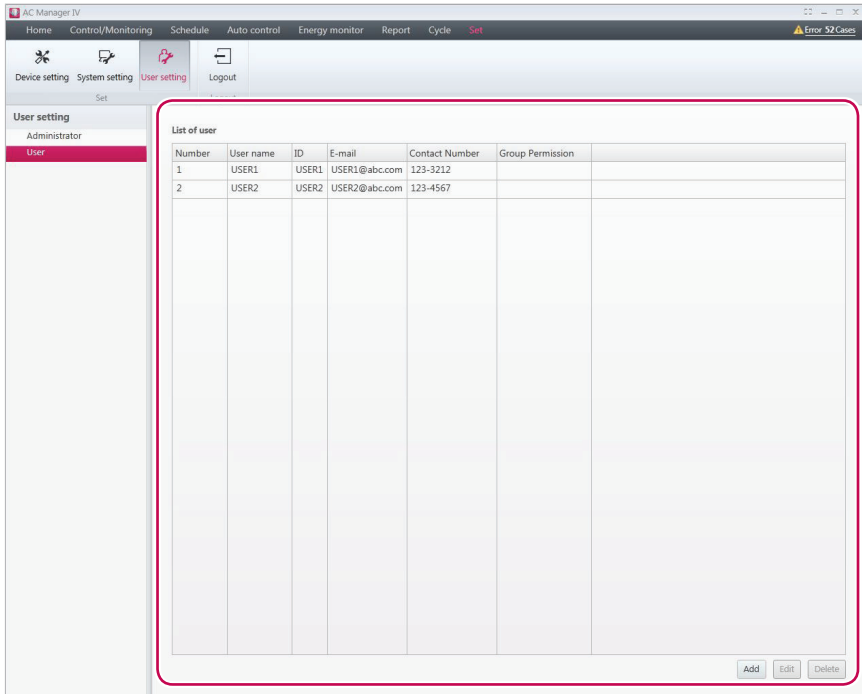
Item	Description
Set mail server	<ul style="list-style-type: none">• Administrator E-mail Server Settings.<ul style="list-style-type: none">- SMTP server: Enter the address of the SMTP server.- Port: Enter the port number of the server.- ID: Enter the user's ID for the e-mail server.- Password: Enter the user's password for the e-mail server.- Connection test: Performs a test to connect to the user's e-mail account (you must be connected to internet).
Menu setting	<ul style="list-style-type: none">• Check the boxes to customize the administrator's menu (you may select multiple items).<ul style="list-style-type: none">- Basic menu: Report, Cycle, Device Settings.- Option Menu: Schedule, Auto Control, Energy Monitor.

4. To save these settings, click **[Apply]**.

User

Only an account with administrator privileges can modify a general user's environment.

1. In the menu bar at the top, click **Set**.
2. From the Toolbox, click **[User setting]**.
3. Click the **User** in the user list.
 - The setting screen for the general user opens. You can add, modify, and delete users from this screen.



Item	Description
List of user	<p>A brief summary of all general users.</p> <ul style="list-style-type: none"> • Number, User Name, ID, E-mail, Contact. • [Add] Button: Add a new user. • [Edit] Button: Edit the selected user. • [Delete] Button: Delete the selected user.

Item	Description
Add & Edit	<ul style="list-style-type: none"> • Adding or editing a general user. <ul style="list-style-type: none"> - Name: Enter the user's name. - ID: User IDs are case sensitive. Use both upper and lower case letters. - Password: Use numbers and upper and lower case letters for maximum security. - E-mail: Enter an e-mail address for the user. - Contact: Enter a phone number or a mobile number to contact this user. • Menu Settings for General Users. <ul style="list-style-type: none"> - Basic menu: Report. - Option Menu: Schedule, Auto Control, Energy Monitor. • General user groups authorization. <ul style="list-style-type: none"> - You can only control selected management group.

4. To save these settings, click **[Apply]**.

Information Management

A general user can view and modify his or her user information after logging in.

1. In the menu bar at the top, click **Set**.
2. From the Toolbox, click **[User setting]**.
3. Click **Information management** in the System Settings menu.
 - The info management screen opens. You can view and change user information in this screen.

The screenshot shows the AC Manager IV software interface. The top menu bar includes Home, Control/Monitoring, Schedule, Auto control, Energy monitor, Report, and Set. The left sidebar has System setting, User setting, and Information management. The main area displays a 'Manage personal information' dialog box for user USER1. The dialog box contains the following fields:

- Name: USER1
- ID: USER1
- Password:
- Check password:
- E-mail: USER1@abc.com
- Contact Number: 123-3212

Item	Description
Name	The user's name.
ID	The user's ID.
Password	To change the user's password, enter a new one here.
Check password	Enter the same password again to confirm.
E-mail	Enter an e-mail address for the user.
Contact Number	Enter a phone number or a mobile number to contact this user.

4. To save these settings, click **[Apply]**.



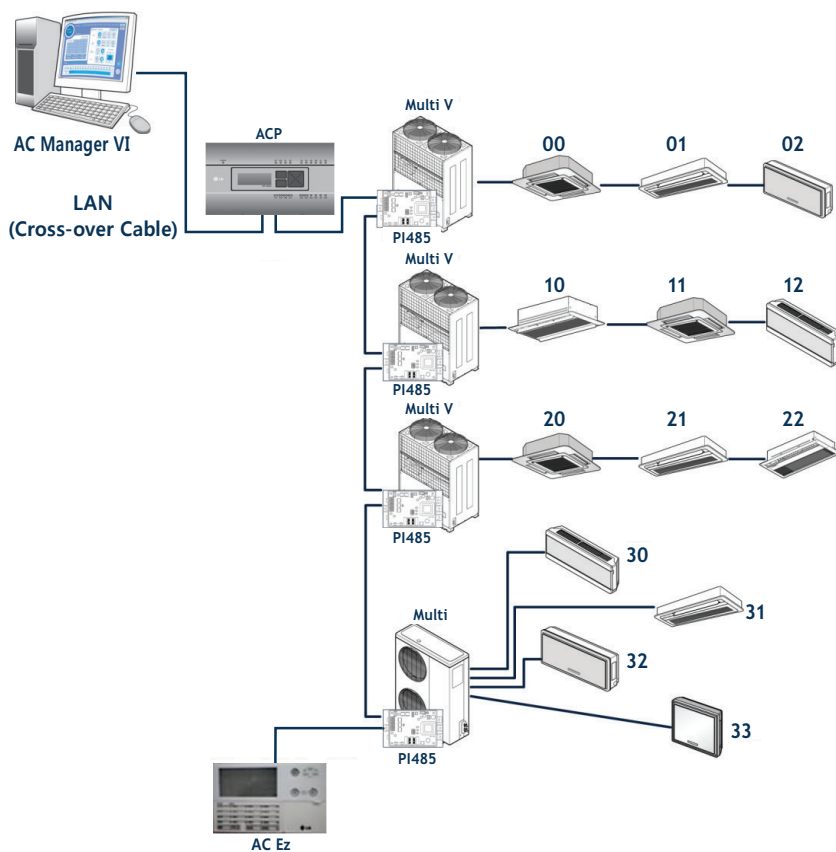
Hint

Provide additional information required to use AC Manager VI.

AC Manager VI Complete System Diagram

Connecting AC Manager VI to an ACP

Connecting an ACP to AC Manager VI without a hub

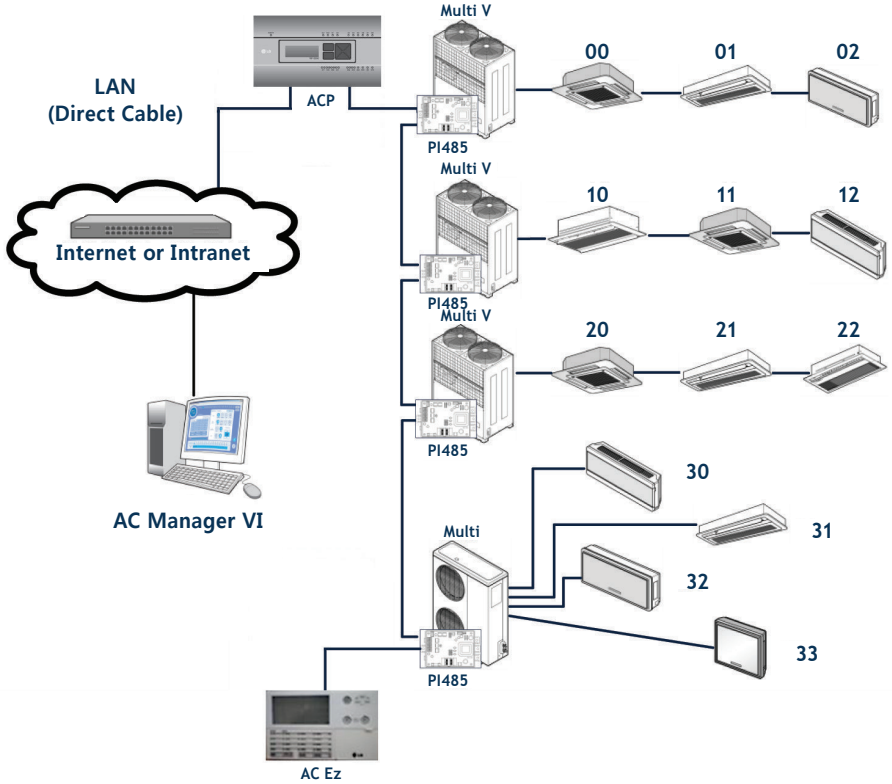


NOTES

The allocated number to the indoor device is a sample address for central control, which is set to the indoor device.

Using a hub to connect AC Manager VI to ACP

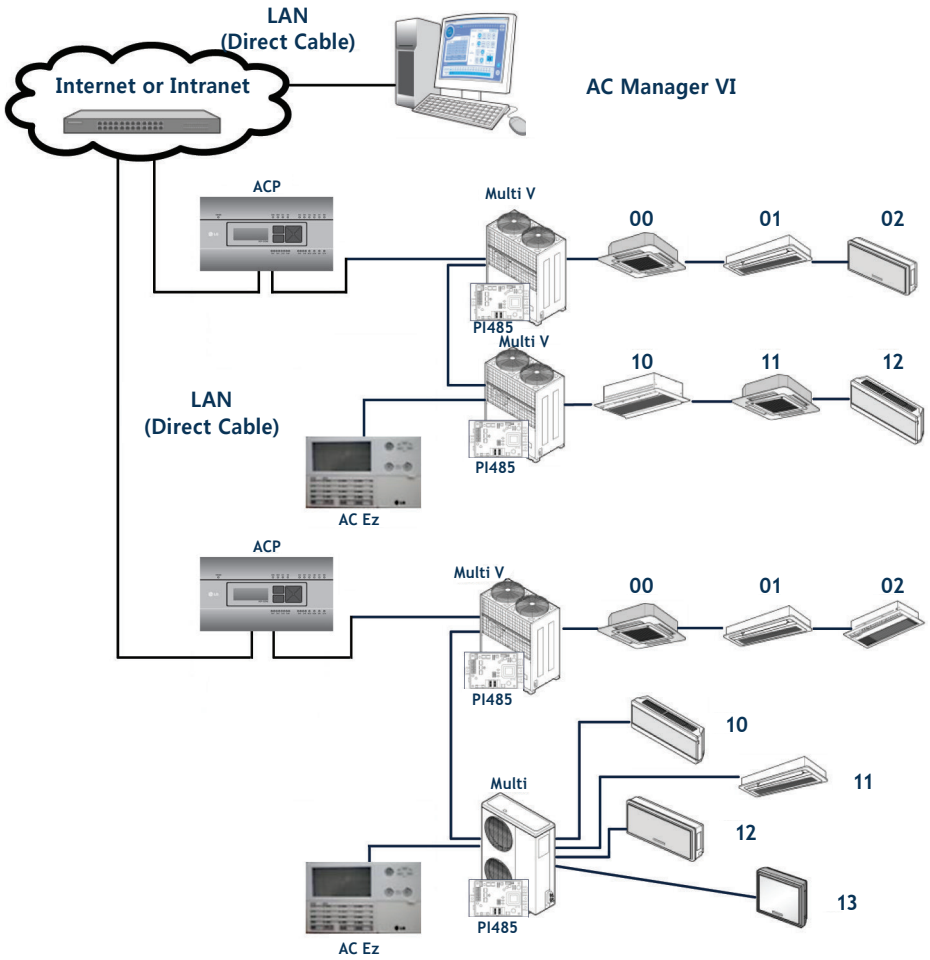
ENGLISH



NOTES

AC Ez can be connected separately if required.

Connecting AC Manager VI to multiple ACPs



Pre-Tech Support Checklist

If the product malfunctions, please check the following before calling the service center.

Symptom	Check	Actions
I can't connect with the server.	<ul style="list-style-type: none"> Is your computer connected to the internet? Is the server information entered correctly? 	<ul style="list-style-type: none"> Check your internet connection. Verify the IP address of the server.(If you are directly using the server, enter its IP address as 127.0.0.1.)
I can't log in.	Did you type in the correct password?	Make sure Caps Lock is not on and try again.
The program can't find the authentication key.	<ul style="list-style-type: none"> Is the authentication key correctly connected? Is the authentication key connected to a USB hub? 	<ul style="list-style-type: none"> Remove and reconnect the authentication key. The authentication key may not function when connected to a USB hub due to a lack of power. Connect the authentication key directly to the PC.
The device icon has the error mark.	Is your ACP operating normally?	Restart your ACP.

LGE Open Source Software Notice

Software Type	Windows application
Software Name	AC Manager VI

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