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LG LGMV 4.0

Installation Manual

Model : PRCTSH1



- thoroughly before installing and operating your room air conditioner.
- Please retain this Installation Manual for future reference after reading it thoroughly.

LGMV 4.0

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LGMV 4.0 Overview





• Parts of LGMV







HARD LOCK Key

(Program + Install manual)

* NOTE : Recommended PC Specification to install LGMV Main program

- CPU : Over Pentium IV 1.6GHz
- Main Memory : Over 256MB
- Operating System : Windows NT/ 2000/ XP/ 2003 (include Microsoft Java VM)
- Hard Disk : More than 600MB when operating
- Web browser : Over Internet Explore 5.0

Programs in CD

1. Check below files listed in CD

Name 🛆	Jame 🛆 Size		Modified		
🚞 hdd32		File Folder	2005-04-01 오전 1:58		
TLGMV Installation Mai	nual 753 KB	Adobe Acrobat Doc	2005-04-01 오전 1:58		
🛃LGMV_TOTAL4.0	1,902 KB	Windows Installer P	2005-04-01 오전 1:58		

2. Description of file in CD

- ELGMV Installation Manual : LGMV 4.0 Installation Manual
 - hdd32 : Hard Lock Program(LGMV 4.0 Security Program)



- BLGMV_TOTAL4.0.msi : LGMV 4.0 Main Software Installation file
- 4 LGMV 4.0

Installation

1. Hard Lock Program Installation

(1) 2 files appear when hdd32 folder is opened

📥 hdd32					_		
Eile Edit View Favorites Tools Help							
🗘 Back 🔹 🔿 👻 🔂 🧟 Sear	rch	🔁 Folders 🛛 🖓 📲	¶ × ∞ ⊞	•			
Address hdd32					•	∂ Go	
hdd32		Name A	Size 2,590 KB 9 KB	Type Application Text Document	Modified 2005-04-01 오전 1:58 2005-04-01 오전 1:58		
Select an item to view its 2 object(s)	-			2.53 MB	Jee My Computer	10	

(2) Execute hdd32.exe file. The following window pops up. - Follow the below mentioned procedure

Please select the language that you wo nstallation.	uld like to use during the
.S. English eutsch	

Select U.S.English and then click 'OK' button



Click 'Next' button



Click 'Finish' button to complete the installation of Hard Lock program

(3) Insert Hard Lock Key in PC Parallel Port

* NOTE : If you don't insert Hard Lock Key before LGMV main program execution, below error message will appear.



2. Installation of Main LGMV Program

(1) Select LGMV_TOTAL4.0

Name 🛆	Size	Туре	Modified
🚞 hdd32		File Folder	2005-04-01 오전 1:58
The Installation Mar	ual 753 KB	Adobe Acrobat Doc	2005-04-01 오전 1:58
🛃LGMV_TOTAL4.0	1,902 KB	Windows Installer P	2005-04-01 오전 1:58

(2) Execute LGMV_TOTAL4.0.msi file. The following window pops up.

- Follow the below mentioned procedure



GMV_TOTAL4.0	_ 🗆 🗙					
Select Installation Folder						
The installer will install LGMV_TOTAL4.0 in the following folder						
The installer wininstall Carry 10 FAC4 on the following folder. To install in this folder, click "Next". To install to a different new or existing folder, enter one below ar older "Prevent".						
	- 1					
Eolder: C.WProgram FileswEdiwo_101ALW	Browse					
You can install the software on the following drives:						
Volume	Disk 🔺					
С:	730.					
	1021					
1						
	<u>D</u> isk Cost					
<u>C</u> ancel <u>P</u> revious	Next					
Click 'Next' button						
\sim						
LGMV_TOTAL4.0						
侵LGMY_TOTAL4.0	×					
侵LGMY_TOTAL4.0 Confirm Installation						
Confirm Installation The installer is ready to install LGMV_TOTAL4.0 on your computer.						
Confirm Installation The installer is ready to install LGMV_TOTAL4.0 on your computer. Click "Next" to start the installation.						
Confirm Installation The installer is ready to install LGMV_TOTAL4.0 on your computer. Click "Next" to start the installation.						
Confirm Installation The installer is ready to install LGMV_TOTAL4.0 on your computer. Click "Next" to start the installation.	×					
Confirm Installation The installer is ready to install LGMV_TOTAL4.0 on your computer. Click "Next" to start the installation.	×					
Confirm Installation The installer is ready to install LGMV_TOTAL4.0 on your computer. Click "Next" to start the installation.						
Confirm Installation The installer is ready to install LGMV_TOTAL4.0 on your computer. Click "Next" to start the installation.						
Confirm Installation The installer is ready to install LGMV_TOTAL4.0 on your computer. Click "Next" to start the installation.						
Confirm Installation The installer is ready to install LGMV_TOTAL4.0 on your computer. Click "Next" to start the installation.	X					
Confirm Installation The installer is ready to install LGMV_TOTAL4.0 on your computer. Click "Next" to start the installation.	X					
Confirm Installation The installer is ready to install LGMV_TOTAL4.0 on your computer. Click "Next" to start the installation.						
Confirm Installation The installer is ready to install LGMV_TOTAL4.0 on your computer. Click "Next" to start the installation. Cancel Previous	. ×					
Confirm Installation The installer is ready to install LGMV_TOTAL4.0 on your computer. Click "Next" to start the installation. Click "Next" button	X					
Confirm Installation The installer is ready to install LGMV_TOTAL4.0 on your computer. Click "Next" to start the installation. Click "Next" to start the installation. Click 'Next' button	X					
Confirm Installation The installer is ready to install LGMV_TOTAL4.0 on your computer. Click "Next" to start the installation. Click "Next" to start the installation. Click 'Next' button	Lext					



Click 'Close' button to complete the LGMV_TOTAL4.0



3. Port set-up

LGMV 4.0 Program will be operated correctly when it is connected COM1 Serial port : COM1 port only

In case that there is not RS232 Serial port in your notebook, use USB port of your PC. Refer to '(2) Setting the USB port as the serial port' on page 14.

(1) Check COM1 port



System Overview In case of RS 232 Serial PORT In PC

PRCTFE0 connection should be done as the above picture and it would be connected to the main PCB connector of outdoor unit.

To check COM1 port, follow the below procedure



Select 'Start' -> 'System' -> 'Control Panel' then you can see and choose the 'System' icon in 'Control Panel'



🗟 Control Panel						
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools	; <u>H</u> elp					
🗧 Back 👻 🔿 👻 🔂 Search	다. Folders	3 4 4 >	< 20 1			
Address 🐼 Control Panel						• PGO
	<u>E</u>				automatic	Data/Time
Control Panel	Options	Hardware	Programs	Tools	Updates	Date/ fille
System Provides system information and changes environment settings	Display	Folder Options	Fonts	Game Controllers	Internet Options	Keyboard
Windows Update Windows 2000 Support	Mail	Mouse	Network and Dial-up Co	Phone and Modem	V Power Options	Printers
						S p
	Regional Options	Scanners and Cameras	Scheduled Tasks	Sounds and Multimedia	System	Users and Passwords
Provides system information and changes	s environment s	ettings			📃 My Comp	uter //

Select 'Hardware' in 'System Properties' window



Select 'Device manager' and then 'Device Manager' window appears. Then select 'Ports(COM & LPT)' in 'Device manager' window

Action View + + P P P P P P P P P P P P P P P P P	Communications Port (COM1) Properties ? X General Port Settings Driver Resources
Properties	OK Cancel

Select 'Communication Port', click right button of your mouse, and choose 'Properties' as shown above

Select 'Port Settings' in 'Communication Port' window and click 'Advanced' button.

Communications Port (COM1) Properties
General Port Settings Driver Resources
Bits per second: 9600
Data bits: 8
Parity: None
Stop bits: 1
Elow control: None
Advanced <u>R</u> estore Defaults
OKCancel

Install	lation
motum	anon

Advanced Settings for COM1

♥ Use FIFO buffers (requi Select lower settings to Select higher settings fo	res 16550 correct co r faster pe	compatible UAR1 nnection problem rformance.	T) s.				OK Cancel
Receive Buffer: Low (1)	1			—-Ţ	High (14)	(14)	<u>D</u> efaults
<u>T</u> ransmit Buffer: Low (1)	1			—Į	High (16)	(16)	
COM <u>P</u> ort Number: COM1 COM2 (in COM2 (in COM3 COM4	use)						J

? ×

Check 'COM1' port and click 'OK' Button

(2) Setting the USB port as the serial port



* NOTE : Purchase 'USB to 232 Serial Converter' by yourself.(Local sourcing)

System Overview in case of using USB-Serial converter in PC

PRCTFE0 connection should be done as shown above and it would be connected to main PCB connector of the outdoor unit.

- Insert the USB-Serial converter into the USB port.

You can see the below window and setup the program. Follow the below mentioned procedure.

Found New Hardware		
USB-Serial Controller		
Installing		
Found New Hardware Wizard		
	Welcome to the Found New Hardware Wizard This wizard helps you install a device driver for hardware device.	3
	To continue, click Next.	
	< Back Next >	Cancel

Click 'Next' button at 'Welcome to the Found New Hardware Wizard'.

nd New Har	dware Wizard			
Install Hard A device an opera	ware Device Drivers driver is a software program that enable ting system.	s a hardware devi	ce to work with	1000
This wize	rd will complete the installation for this d	evice:		
P.	USB-Serial Controller			
A device needs di installatio	driver is a software program that makes ver files for your new device. To locate n click Next.	a hardware devic driver files and cor	e work. Windows nplete the	
vnat do	you want the wizard to do?	recommended		
C D d	splay a list of the known drivers for this (ver	levice so that I ca	n choose a specific	

Select 'Search for a suitable driver for my device', and then click 'Next'.

d New Hardware Wizard	
ocate Driver Files	5
Where do you want Windows to searc	ch for driver files?
Search for driver files for the following	hardware device:
USB-Serial Controller	
The wizard searches for suitable driver any of the following optional search loo	rs in its driver database on your computer and in cations that you specify.
To start the search, click Next. If you a insert the floppy disk or CD before clic!	are searching on a floppy disk or CD-ROM drive, king Next.
Optional search locations:	
Floppy <u>disk</u> drives	
Specify a location	
Microsoft Windows Update	

Select 'CD-ROM drive,' insert the installation CD, and then click 'Next.'



Select the registration information by selecting 'My computer' at the desktop and then click the right button of the mouse.

Select the device manager from the hardware of the registration information and select 'USB to Serial Converter' at the port as shown at the below figure



Select 'USB to Serial Converter' and click right button of your mouse and choose 'Properties'.

Communications Port (COM1) Properties	×
General Port Settings Driver Resources	
Bits per second: 9600	
Data bits: 8	
Parity: None	
Stop bits: 1	
Elow control: None	
Advanced]
OK Cancel	

Select 'Port Settings' in 'Communication Port' window and click 'Advanced' button.

V		Ļ
	\sim	

Advanced Settings for COM1							? ×
✓ Use FIF0 buffers (requ Select lower settings to Select higher settings f Beceive Buffer: Low (1) Transmit Buffer: Low (1)	ires 16550 co correct conr or faster perfo	impatible UAR ection problem rmance.	<u>,</u> s.	—Ţ	High (14) High (16)	(14)	OK Cancel Defaults
COM Port Number: COM1	•	•	•	ſ			

Check 'COM1' port then click 'OK' Button

4. Setting the Initial Dialog Box

(1) The initial dialog box appears every time by clicking the short cut button of LGMV on the desktop.

LGPNy_Total4.	
SVC 4.0 Setting	
Aircon Type	
C Heat Pump(old)	 Heat Pump(new)
C Heat Recovery(old)	○ Heat Recovery(new)
he Combination of ODUs	
⊂ Master(Old Tool)	○ Master+Slave1
Master(New Tool)	C Master+Slave1+Slave2
Refrigerant Type ● R22 ⊂ R410A ⊂ R407C	ОК

(2) Select 'Air conditioner type', 'The combination of outdoor unit', 'Refrigerant type' then click 'OK' button

Data Photling/Taxi	ng Interval + 30 sec	Sele	ct unit to plot	e 1128 3080				
Heaty Only Fix Total and and attraction	ciellee Data time 300 min Hetsigenant (1922	31	ILAVEI INEZ BLAVEL	(50)				
DHz Tah	Hz(MI Fan(1) Hz	Fan(3) HB	Line 2 Hill sunt 4 Line 5 Hills sunt 4	er. C (441) (341)				
0 PLS 0 F	NOT OF LEVISZ	0 PLS		7				
UPLS UP	WED SC LEVISZ	SC LEVISS) DU		r 18 that				
Btu () KW	ODU/En NFO	MOD VERSION II	l hr = F	the Enter				
Cooling Fan	INV Hz Target	FAN Hz Target	HP0M/Th/Tatget	LPIM/Td/Tatget)	SH(M/Target)	SC(M/Target)	CT Value	Ave Tin IDU
Const Comp1	U	0	0/-38.0/ 0	0/-40.1/ 0	240.10/ 0.00	-258.68/ 0.00	0	220,00
(cent)	EYS MODE	Err Number 0	HP(S1/S2/S3) 220/ 221/ 220	T1(S1/82/S3) -30.0/-30.0/-30.8	LP (81/92/83) 220/ 220/ 229	Td(51/S2/S3) -40.1/-40.1/-40.1	Tak(M/SI) 220.00/ 220.00	Taix(\$2,753) 220.00/ 220.00
DIIC II	Tirch(/21)	Teuto/C1)	TauKC2/C3)	COLUMNER(M/SID	000 Hidth/511	SC TLIC(M/S1)	BC TINONYE10	SC TouSM/SD
Lis UTID	290,00/ 220,00	300,00/_300,10	220, DQ 220, DD	220, 0Dy 220, 0D	220.00/ 220.00	220, DIL/ 220, DI	220,00/ 220,00	220,00/ 220,00
Lia LITIC II	Th(\$2/\$3)	Tout(C4/C5)	Tauk(C6/C7)	00U HaF(\$2/53)	ODU Hydl (S2/S3)	SC TLig(82/83)	BC Tin(S2/S3)	SC Tout(S2/S3)
a Hirtgaschill &	220.007 220.00	(Damp) / Damp) /	220.00/ 220.00	231.00/ 231.00	22100/ 22100	220.007 220.00	C 154-77 C	221.00/ 221.00
4Wajk(M) CheckSOL(M)	CC No. Capaci DU 1	N OPRIMOTE	THM MODE THEM	MODE FAN	LEVSIO) TIN	toor As T Fips In	T Fige Out CO	MAL ON IDUERA
Const Comp2	DU 2 DU 1	-						
Const Comp3	10U 4							
ORICEI.	DU 5							
OIICII	100.7							
Lig MEICE	00.9							
Lis MTICE	DU10							
Hitgas(S)	创论							
49/ap(S)	D013							
	TUIK							

< LGMV Main monitoring >

(3) Explanation about the initial dialog box

■ 'Air conditioner Type'

- ✔ Heat Pump(OLD) : Air conditioner using the conventional jig protocol
 - → 1 Outdoor unit combination (Old Tool,New Tool, SPACE)
 - → 2 Outdoor units combination (No Communication signal type)
- ✓ Heat Pump(NEW) : Air conditioner using the integrated jig protocol
 → 1 Outdoor Unit Combination (New Tool, SPACE), 3 Outdoor units combination
- ✓ Heat Recovery(OLD) : Heat Recovery type Air conditioner using the convention jig protocol
- ✓ Heat Recovery(NEW) : Heat Recovery type Air conditioner using the integrated jig protocol
- 'The combination of ODUs'
- ✔ Select according to the combination of the Outdoor units(Master,Slave)
- \checkmark SPACE model is separately handled

'Refrigerant Type'

✔ Pressure reference table depends on the refrigerant type(R22, R410,R407C)

5. Explanation about Integrated LGMV 4.0 display screen

• You can see the abbreviation list, meaning of error number from help in the menu bar.



* NOTE : LGMV_TOTAL4.0 will be operated correctly when the PC COM port is set COM1 If below Error Message Pop-up the window then check the followings.

- 1) The serial cable is connected properly or not
- 2) Check the PC COM port is set to COM1 or not



(1) MENU BAR

You can change the items set at the initial dialog box to the other items at the menu bar. You can set it again.

- Heat Pump
- ✔ It is same as selecting the Air conditioner type at the initial dialog box and outdoor combination .

Heat Recovery

✔ It is same as selecting the Air conditioner type at the initial dialog box and outdoor combination .

Refrigerant

✓ You can select the refrigerant type(R22, R410,R407C) again.

Making Data

😹 LGMV4.0 For Mu	lti V by HSJ			1				_	
Main[<u>M</u>] CycleVi	ew[<u>C]</u> Heat Purn	p Heat Recovery	Refrigerant Ma	ing Data Option	Help About				
Data Plotting/Savi	ng Interval = 30 sec	: Sele	ct unit to plot	Hz 120 2000					
Ready Only R Total save setup NewSERIES 1Un	eceive Data time : 300 min it Refrigerant : R22	MAS SLA HR I	STER SLAVE1 FH AVE2 SLAVE3 HP Unit 1 HR Unit 2 Tai	42 (50)					
Comp Hz Fan	Hz(M) Fan(L)	Fan(R) HB	Unit 3 HH Unit 4 Tin	C (Hz)					
Out LEV(M) Out LI 0 PLS 0	HZ EV(S1) Out LEV(S2 PLS 0 PLS) Out LEV(S3) 0 PLS	11 IDU6 IDU12 TC 12 IDU7 IDU13 LE 13 IDU8 IDU14	iout M					
SC LEV(M) SC LE	EV(S1) SC LEV(S2) PLS 0 PLS	SC LEV(S3) IDU 0 PLS IDU	14 IDU9 IDU15 13 15 IDU10 IDU16	r 3:lli 5:hgb mp4:cli 6:4way					
KBtu <> KW	ODU / Err INFO	MOD VERSION : (0 1 hr 💌 🌀	hr Enter 🕽					
Cooling Fan	INV Hz Target	FAN Hz Target	HP(M/Tb/Target)	LP(M/Td/Target)	SH(M/Target)	SC(M/Target)	CT Value	Ave Tin IDU	
Const Comp1	0	0	0/-38,8/ 0	0/-40,1/ 0	240,10/ 0,00	-258,80/ 0,00	0	220,00	
il(l)	SYS MODE	Err Number	HP(S1/S2/S3)	Tb(S1/S2/S3)	LP (S1/S2/S3)	Td(S1/S2/S3)	Tair(M/S1)	Tair(S2/S3)	-
Oil(C1)	Tip(M/S1)	J U Tout(L/C1)	Z20/ Z20/ Z20	-38, 8/-38, 8/-38, 8	220/ 220/ 220	-40, 1/-40, 1/-40, 1	220,00/ 220,00	220,00/ 220,00	-
Lin UT(I)	200.00/ 220.00	300.00/ 300.00	220.00/ 220.00	220.00/ 220.00	220.00/ 220.00	220.00/ 220.00	220.00/ 220.00	220.00/ 220.00	-
	Tin(S2/S3)	Tout(C4/C5)	Tout(C6/C7)	ODU HxF(S2/S3)	ODU HxB(S2/S3)	SC TLig(S2/S3)	SC Tin(S2/S3)	SC Tout(S2/S3)	
	220,00/ 220,00	220,00/ 220,00	220,00/ 220,00	220,00/ 220,00	220,00/ 220,00	220,00/ 220,00	220,00/ 220,00	220,00/ 220,00	-
Motgas(M)	JIG INFO Page1	/ Page2 / Page3 /	Page4 / Page5 🔽	Error INFO @	1-38 C 40-66 C	100-131 C 132-163	○ 164-255 ○ H	R G1 C HR G2	
4Way(M)	IDU No. Capaci	ity OPR MODE	THM MODE REM	MODE FAN	LEV Step T Inc	door Air T Pipe In	T Pipe Out CC	MM, cnt IDU ERR	OR
CheckSOL(M)	IDU 1								
Const Comp2	IDU 2						+ +		_
Const Comp3	IDU 4								
Oil(C2)	IDU 5								
00003	IDU 7								_
	IDU 8								_
	IDU 9						-		
Liq UT(C3)	IDU11								
Hotgas(S)	IDU12						-		_
4Way(S)	IDU14								
CheckSOL(S1)	IDU15 IDU16								
Master/Slave1 -	Communication	RxD 🕥 T>	D IDU 7 HR Uni	TINFO IDU NUM	<u>16</u> <u>→</u> (• II	DU G1 C IDU G2	CIDUIG3 CH	R G1 C HR GR2	
Ready								NUM	

- ✓ Before selecting 'Start', you can input 'Saving Time', and 'Number of IDU' at saving option in menu bar. The data will be saved only for the 'Saving Time'.
- ✓ Saving interval is 30 seconds and changing this interval is not available.
- ✓ If you select 'Start', you can see 'Save as' window.

You can input file name, and click 'Save' Button, then data saving will be started.

✓ If you want to stop to save data, please select 'Stop' in the menu bar.

Input Data Save Time	×
300	Saving Time(Min)
16	Number of IDU
Cancel	OK I

■ Cycle View Mode

✓ It displays cycle diagram on the basis of current MultiV data



- ✓ Pipe layout color of cycle changes with accordance to characteristics of each cycle when converting to the cooling/heating
- ✔ Possible to select indoor/outdoor unit using 'Select Odu' and 'Select Idu Gr' from the lower part.



- Indicates the room temperate and fan condition of indoor unit.

■ Indoor unit Control Mode

✓ Select IDU CONTROL from OPTION in the menu bar.

🟭 LGMV 4,0 for LJS										_ 8 ×
Heat Pump Heat R	ecovery Refrigerant	Making Data Cycle Vie	w Opwon H	lelp About						
Ready Only Re Total save setup NewSERIES 2Unit	eceive Data time : 300 min t Refrigerant : R22	MASTER SLA SLAVE2 SLA HR Unit 1 HR L	VE OUD VE Total Da nit IDU Cor	ata htrol						<u>*</u>
Comp Hz Fan H 0 Hz 0 H	Hz(M) Fan(L) Far Hz	HR Unit 5 II	DU11 Thout	(bar)						
Out LEV(M) Out LE 248 F _S 248	V(S1) Out LEV(S2) Out PLS 0 PLS 0	LEV(S3) IDU2 IDU7 II IDU3 IDU8 II	0U13 LEV 0U14		_					
SC LEV(M) SC LE	V(S1) SC LEV(S2) SC PLS 0 PLS 0	LEV(S3) IDU4 IDU9 II IDU5 IDU10 II	0U15 1:ef 3:ili 2:emp4:eli	5:hgb 6:4way 14:32:35	T.					
KBtu <> KW	ODU / Err INFO MOI	D VERSION : 2 1 hr	▼ j6 hr	Enter	_					
Cooling Fan	INV Hz Control IDU						Contraction Designed in		×	IDU 🔺
Const Comp1	SYS MC Cooli	Aode- ing	Please, Pres:	s "Excution" t	o transfer da	ta,				/\$3)
Oil(C1)	Tin(M/) C All O	FF								/ 220,00 t(M/S1)
Liq UT(I)	30, 30; Tin(S2/-	N								/ 25,70 t(S2/S3)
Hotgas(M)	220,00 Excuti	ion								/ 220,00 🖵
🕥 4Way(M)	IDU No		e mentinope	1.00		T HIGOOT MI	ттрент	T T IPE Out	COMIN, CIR	IDU ERROR
CheckSOL(M)	IDU 1 24 kBtu/hr	OFF OFF	OFF	HIGH	1000 PULSE	24,45 °C	24,23 °C	24,59 °C	225	
Const Comp2	IDU 3 14 kBtu/hr	COOL OFF	OFF	MIDDLE	40 PULSE	25,13 °C	26,38 °C	25,66 °C	224	0
Const Comp3	IDU 4 12 kBtu/hr	COOL OFF	OFF	MIDDLE	40 PULSE	25,13 °C	26,02 °C	25,30 °C	224	
🕥 0il(C2)	IDU 6 12 kBtu/hr	OFF OFF	OFF	HIGH	1000 PULSE	25,82 °C	25, 30 °C	25,30 °C	224	
Oil(C3)	IDU 7 28 kBtu/hr	OFF OFF	OFF	OFF	1000 PULSE	25,13 °C	25,66 °C	25,30 °c	225	0
Lig IJT(C2)	IDU 9									<u> </u>
Liq IJT(C3)	IDU10 IDU11									
🕥 Hotgas(S)	IDU12									
🕥 4Way(S)	IDU13									
CheckSOL(S1)	IDU15 IDU16									
Master/Slave1 -	Communication	RxD 🥘 TxD IDU ,	7 HR Unit INFO	IDU NUM	16 +	€ IDU G1	🔿 IDU G2	🔿 IDU G3 🕜	D HR G1 C	HR GR2
I										>
🥂 시작 🔛 LGMV	4.0 for LJS 🔐 L	GMV Cycle Monitor	ý 2,bmp - 그림	림판				A 漢 👸 «	& 🕺 🗞 🔊	圓 🌒 오章 2:41

- Indicates the current condition of the current indoor unit (cooling/heating and on/off)
- On/Off status changes as you press each buttons.
- Transmits the current changed details to indoor unit if only you press the 'Execution' button
- Select the operation mode and indoor unit after control panel is ready.
- If you want to change the operation mode, choose the opposite mode after confirming that control panel is ready.

■ LGMV indoor unit ON/OFF Function



• 8 indoor units connected to the current outdoor unit are all off



• 8 indoor units connected to the current outdoor unit are operating in heating mode



• 8 indoor units connected to the current outdoor unit are partially operating in cooling mode (5 indoor unit are on)



• 30 indoor units connected to the current outdoor unit are partially operating in heating mode (22 indoor unit are on)

Help

✔ When you select the Help, you can select 3 functions

(1) Abbreviation : It displays the list of abbeviations used in LGMV main display window



(2) Error Number : It displays the table of error number and what they mean



(3) Alternativeness (Troubleshooting) : When an error occurs, if you select 'Alternativeness,' a window for error solution is displayed.

You can select the error number to see the error details and its troubleshoot methods.

<i>◈</i> 에러표시	번호			_ 🗆 🗙
<u>Eile E</u> dit B	ookmark Options Help			
<u>C</u> ontents	Index Back	<u>P</u> rint		
ERROR #3	2, #100, #102			
Error Display	Error Item	Meaning	Cause of Key Error	
32 100 102	Compressor discharge temperature	Compressor off by excessive rise of compressor discharge temperature	 Compressor discharge pipe temperature sensor loss and damage Poor refrigerant Failure of LEV Failure of liquid injection valve Check the hot gas bypass valve leaks 	
Trouble	eshooting Meth	od		
0) Is disc 1) Is the L 2) Does t 3) Does t 4) Check	harge temperature a EV of indoor/outdoo he liquid injection val he hot gas bypass v refrigerant filling stat	ctually high? or unit normal? ve normally operate? alve normally operate us.	, ??	

(2) Storage status window

• It displays the air conditioner type, the protocol type, and the number of the units for the outdoor units selected at the initial dialog box of the menu bar.

Data Plotting/Saving Interval = 30 sec
Ready Only Receive Data Total save setup time : 300 min NewSERIES 4Unit Refrigerant : R22

Information at the normal condition

• When you save the data, it displays the total storage time, the number of the indoor units, the file saving location and the file name.

Data Plotting/Saving Interval = 30 sec

Data Save to

C:\#Documents and Settings\#Administrator\#My Elape Time : 1 min, IDU NUM : 16 Remaining Time : 299 min

Information at storing

(3) Important information about Outdoor unit window

• In order to recognize the important information about the outdoor unit, it displays compressor & fan Hz information, outdoor unit LEV information and over-cooling LEV information.

M : Master, S1 : Slave1, S2 : Slave2, S3 : Slave3,

LEV : Linear Expansion Valve, L : Left, R : Right

PLS : Pulse

Comp Hz 0 Hz	Fan Hz(M) 0 Hz	Fan(L)	Fan(R)
Out LEV(M)	Out LEV(S1)	Out LEV(S2)	Out LEV(S3)
0 PLS	0 PLS	0 PLS	0 PLS
SC LEV(M)	SC LEV(S1)	SC LEV(S2)	SC LEV(S3)
0 PLS	0 PLS	0 PLS	0 PLS

(4) System Graph window

- You can select the unit if you want to see its data in graph.
- You can select display time in the graph.



Graph displayed when selecting Indoor unit

(5) Operating status window

• You can see the operating status and the control status of outdoor unit. You can see the operating status for Slave2/Slave3 by using the selection bar.



(6) Outdoor unit/Error information window

• * Note : 200/220/300 data displayed for Outdoor unit information are meaningless.

	· ·							
INV Hz Target	FAN Hz Target	Hp(M/Tb)	LP(M/Td)	SH(M)	SC(M)	CT Value	Ave Tin IDU	
0	0	0/-38,8	0/-40,1	240,10	-258,80	0	220,00	
SYS MODE	Err Number	HP(S1/S2/S3)	Tb(S1/S2/S3)	LP (S1/S2/S3)	Td(S1/S2/S3)	Tair(M/S1)	Tair(S2/S3)	
0	0	0/ 220/ 220	-38,8/-38,8/-38,8	0/ 220/ 220	-40, 1/-40, 1/-40, 1	220,00/220,00	220,00/220,00	
Tin(M/S1)	Tout(I/C1)	Tout(C2/C3)	ODU HxF(M/S1)	ODU HxB(M/S1)	SC TLiq(M/S1)	SC Tin(M/S1)	SC Tout(M/S1)	
200,00/200,00	300,00/ 300,00	300,00/ 300,00	220,00/220,00	220,00/220,00	220,00/220,00	220,00/220,00	220,00/220,00	
Tin(S2/S3)	Tout(C4/C5)	Tout(C6/C7)	ODU HxF(S2/S3)	ODU HxB(S2/S3)	SC TLig(S2/S3)	SC Tin(S2/S3)	SC Tout(S2/S3)	
220,00/220,00	300,00/ 300,00	220,00/220,00	220,00/220,00	220,00/220,00	220,00/220,00	220,00/220,00	220,00/220,00	-

INV Hz Target	FAN Hz Target	Hp(M/Tb)	LP(M/Td)	SH(M)	SC(M)	CT Value	Ave Tin IDU	
0	0	0/-38,8	0/-40,1	240,10	-258,80	0	220,00	
SYS MODE	Err Number	HP(S1/S2/S3)	Tb(S1/S2/S3)	LP (S1/S2/S3)	Td(S1/S2/S3)	Tair(M/S1)	Tair(S2/S3)	
0	0	0/ 220/ 220	-38,8/-38,8/-38,8	0/ 220/ 220	-40, 1/-40, 1/-40, 1	220,00/220,00	220,00/220,00	
Tin(M/S1)	Tout(I/C1)	Tout(C2/C3)	ODU HxF(M/S1)	ODU HxB(M/S1)	SC TLiq(M/S1)	SC Tin(M/S1)	SC Tout(M/S1)	
200,00/200,00	300,00/ 300,00	300,00/ 300,00	220,00/220,00	220,00/220,00	220,00/220,00	220,00/220,00	220,00/220,00	
Tin(S2/S3)	Tout(C4/C5)	Tout(C6/C7)	ODU HxF(S2/S3)	ODU HxB(S2/S3)	SC TLiq(S2/S3)	SC Tin(S2/S3)	SC Tout(S2/S3)	$\left \right\rangle$
220,00/220,00	300,00/ 300,00	220,00/220,00	220,00/220,00	220,00/220,00	220,00/220,00	220,00/220,00	220,00/220,00	-1
JIG INFO Page1 /	/ Page2 / Page3 / I	Page4 / Page5 🛛	Erro NFO O	1-38 🔿 40-66 🔿 1	00-131 🔿 132-163	○ 164-255 ○ HF	R G1 📉 🔿 HR G2	

Selection bar

You can get the simple error information when an error occurs by using the right scroll bar.

(7) Indoor unit/Distributor information window

• Connectable Indroor unit capacities depend on Outdoor unit composition.(Max. 40 indoor unit)

UDU No				1							
10111	Capacity	OPR MODE	THM MODE	REM MODE	FAN	LEV Step	T Indoor Air	T Pipe In	T Pipe Out	COMM, cnt	IDU ERROR
IDU I IDU 2											
IDU 3											
IDU 4											
IDU 7											
IDU 8											
IDU 9											
IDU12	<u> </u>										
IDU13											
IDU14											
IDU15											
		A		1 1			•		<u> </u>		
		of indoc	itically ac or units	tivated by	/ the con	inected nu	ımber			activated Heat reco	when it is overy type
Se	lection I	of indoc	or units	tivated by	/ the con	nected nu	imber isplayed	l inform	ation	activated Heat reco	when it is overy type
Sel Indo	lection I	of indoc	br units	Indoor	unit 1~1	D 6	imber isplayed	linform	ation	activated Heat reco	when it is overy type
Sei Indo	lection I oor unit oor unit	di indoc button group1 group2	or units	Indoor	unit 1~1	D 6 • Indoor u	imber isplayec	linform	nation	activated Heat reco	when it is povery type
Sel Indo Indo	lection I oor unit oor unit oor unit	dutoma of indoc button group1 group2 group3		Indoor	unit 1~1 unit 17~1 unit 17~	D 6 · Indoor u	imber isplayec init 32 init 40	linform	nation	activated Heat reco	when it is overy type
Se Indo Indo Disi	lection I oor unit oor unit oor unit tributor g	duoma of indoc button group1 group2 group3 group 1		Indoor Indoor Indoor Distribu	unit 1~1 unit 17~ unit 33~ utor 1~5	D 6 Indoor u Indoor u	imber isplayed init 32 init 40	linform	nation	activated Heat reco	when it is overy type

