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OWNER'S MANUAL

DIGITAL SIGNAGE MEDIA PLAYER

Please read this manual carefully before operating your set and retain it for future reference.

DIGITAL SIGNAGE MEDIA PLAYER
NC1000
NC2000

www.lg.com

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Specifications

Attention

- Product specifications may change without prior notice to improve performance.

General Specifications

Dimensions	250 mm (W) x 220 mm (H) x 45 mm (D) (only Set)
Weight	1.321 kg (only Set)
CPU	Intel ATOM Processor 330 1.6 GHz(Dual Core), FSB 533 MHz
Chip Set	Nvidia MCP7A-I ON
Main Memory	DDR3 1066 SODIMM type 1 GB, 2 GB
Secondary Storage Device	SATA SSD 8 GB, 16 GB, 32 GB
O/S	Windows Embedded Standard

		SSD		
		8G	16G	32G
DDR	1GB	NC1000-BAAB	NC1000-CAAB	NC1000-DAAB
	2GB	NC1000-BABB	NC1000-CABB	NC1000-DABB

Multi I/O port

Serial Port	One external RS-232 Serial port
USB Port	Hi-Speed USB 2.0 port 480 Mbps rate (x5)
LAN Port	Realtek RTL8103E 10/100 Mbps Ethernet controller
VGA / HDMI	Nvidia MCP7A-ION integrated Graphic chipset
4-in-1 Card	Secure Digital (SD) / MultiMedia Card (MMC/MMC4.0) / Memory Stick (MS/MS-Pro) / xD Memory Card
PCI Express Card Slot	Supported
LINE OUT	Supported
SPDIF (Digital Audio Out)	5.1 Channel Supported (depend on source signal)

Operational Specifications

Resolution	Maximum Resolution	1920 x 1080 @ 60 Hz			
	Recommended Resolution	1920 x 1080 @ 60 Hz			
Power	Rated Voltage	AC 100-240 V~, 50 / 60 Hz, 1.2 A			
Sound Output Wattage	RMS Audio Output 10 W + 10 W (R + L) : When connected to the monitor (model name : M4224C)				
Operating Condition		Sync (H/V)		Video	LED
	Normal Mode	On/On		Active	On
	Deep Sleep Mode (Set = Off)	Off/Off		Off	Off
Operating Conditions	Operating Conditions	Temperature	5 ℃ to 35 ℃	Humidity	10 % to 80 %
	Storage Conditions	Temperature	-20 ℃ to 60 ℃	Humidity	5 % to 95 %

Included in the Box

Basic Components

The NC1000 consists of the following components. Please check that these components have been included prior to installation.

NC1000

Setup Program/User Manual

Box Guide

Power Cable

RS-232C Cable

Rail x 2

Handle x 2

M3, L8 x 8
(for attachment of handle)

M3, L12 x 4
(for attachment of Box Guide on the monitor)

Attention

- These illustrations may differ from your product. Some of these are subject to change.

Optional items

The following items are supported by the NC1000, but are not provided with the product.
Please purchase optional items as needed.

- HDMI cable, D-SUB cable, LINE-OUT cable, fiber optic cable, LAN cable, mouse, keyboard.

Connections

Back Panel

Number	Connection	Description
A	Power Cable In	For the power cable.
B	Power Switch	Provides power to the NC1000
C	RS-232C Out	For the RS-232C cable.
D	USB Wireless Modem In	For a USB-type wireless modem.
E	USB In	For USB-type devices, including memory, hard disk, CD-ROM, key-board, and mouse.
F	HDMI Out	For an HDMI-compatible monitor.
G	LAN Connector	For a LAN cable.
H	4 IN 1 Multi-Card Slot	Accommodates memory cards for storing video or reading images. Supported cards include Secure Digital (SD), MultiMedia (MMC/ MMC4.0), Memory Stick (MS/MS-Pro), and xD Memory Cards.
I	D-SUB Out	For the monitor's RGB video in.
J	OPTICAL Out	For an optical cable for digital audio transfer.
K	NC1000 Power Button	Turns NC1000 on.
L	LINE-OUT Connector	For a LINE-OUT cable for analog audio transfer.
M	PCI MINI EXPRESS Card Slot	Provided for PCI Mini Express Cards.

Installing

We recommend you to use the items provided with your NC1000 and follow our instructions for integrating the product with your monitor in order to ensure the correct results.

Attention

- The monitor illustrations shown are to guide your integration they may differ from your product.

1 Place the handle into the slots on the side of the product.

2 Use screws to secure the handle.

3 Place the rail in the slots on the side of the product.

Warning

- Be careful of sharp edges on the rail and the handle.

4 As shown below, use screws to secure the Box Guide in the four slots at the back of the monitor.

5 Attach the Box Guide to the rail slots, and press it upward.

6 Use screws to secure the player and the Box Guide as shown below.

In/Out Cable Connection

In order to watch video through a monitor, you need to use a D-SUB cable or HDMI cable to connect NC1000 to a monitor.

Attention

- D-SUB, HDMI, LINE-OUT, OPTICAL, and LAN cables are not included with the NC1000. If the cables were not provided with your monitor, you may need to purchase them separately.
- After all required cables are connected, configure SET ID to 1 for the first monitor connected to the NC1000. The SET ID for one of the connected monitors should be configured to 1.
- To configure the SET ID, please refer to the owner's manual for your monitor.
- Monitors used with NC1000 should support LG RS-232C protocols. The brightness, resolution, sound, and other features of an LG RS-232C protocol-enabled monitor can be controlled by SuperSign Manager software.

Note

- A SET ID is a reference number for the monitor that can be set to the user's preference. The monitor SET ID is used by the SuperSign Manager software to identify monitors.

Connecting a Monitor with D-SUB Cable

Attention

- A D-SUB cable connection does not include an audio signal. For audio, you need to connect a LINE-OUT or OPTICAL cable.

Note

- D-SUB cables are also known as RGB cables.

1 Connect the appropriate power cables to a monitor and NC1000 respectively. (See **Turning NC1000 On**)

In/Out Cable Connection

2 Connect the D-SUB port of NC1000 and RGB-IN port of the monitor with a D-SUB cable.

3 Connect NC1000 (OUT) to the monitor (IN) with an RS-232C cable.

In/Out Cable Connection

4 Connect the NC1000 to the monitor with a LINE-OUT cable.

5 Connect a LAN cable to the NC1000

In/Out Cable Connection

Connecting a Monitor with an HDMI Cable

HDMI connections allow digital video and audio signals to be transferred with one cable.
HDMI cable connections do not require an additional audio in cable.

Note

- In and Out signals are not differentiated when using HDMI cables.

Attention

- The monitor to connect with NC1000 should have the HDMI in for the HDMI connection.
- To use the HDMI device, you need to activate the HDMI device in Microsoft Windows Embedded Standard, the operating system of the NC1000. The procedures for activating and deactivating HDMI devices are described below.

1 Connect the appropriate power cables to a monitor and NC1000 respectively. (See **Turning NC1000 On**)

2 Connect NC1000 to a monitor with an HDMI cable.

In/Out Cable Connection

3 Connect NC1000 (OUT) to the monitor (IN) with an RS-232C cable.

4 Connect a LAN cable to NC1000.

Connecting/Disconnecting HDMI in Windows

Connecting HDMI

Move to the desktop of the monitor connected to the NC1000.

1	Click the start button in the lower left of the screen.
2	Select **Start > Control Panel > Sounds and Audio Devices > Audio.**
3	Select **Play Sounds > NVIDIA High Definition Audio from the list** and click **OK**.

Disconnecting HDMI

Move to the desktop of the monitor connected to the NC1000.

1	Click the start button in the lower left of the screen.
2	Select **Start > Control Panel > Sounds and Audio Devices > Audio.**
3	Select **Play Sounds > Realtek HD Audio output from the list** and click **OK**.

Attention

- If you do not reset after disconnecting the HDMI cable from the NC1000, the sound will not work.
- In order for the sound to work properly, stop playing the content and restart the NC1000.

NC1000 Installation Confirmation

Connect the NC1000 to the monitor as described on the previous pages and turn the monitor and the NC1000 on. When the monitor is on, the SuperSign Player home screen will appear as shown here.

Connection to Multiple Monitors

Each NC1000 can accommodate up to 25 monitors for video playback.
You can connect it to several monitors in Tile Mode.

1	Connect the NC1000's **D-SUB OUT** to the **D-SUB IN** of the first monitor, which has **SET ID = 1**
2	Connect other monitors with **D-SUB** cables as shown below (**IN/OUT** separated).

3	Connect the NC1000's **RS-232C OUT** to the **RS-232C IN** of the first monitor, which has **SET ID = 1**.
4	Connect other monitors with RS-232C cables as shown below (**IN/OUT** separated).

Attention

- You may want to purchase additional RS-232C cables to use several monitors together.
- You cannot use multiple monitors with the HDMI cable.

Note

- To play video in Tile Mode, go to **Creating Tile Mode > Create Tile** in this manual.

Specifications

Attention

- Product specifications may change without prior notice to improve performance.

General Specifications

Dimensions	99.8 mm (W) x 183.3 mm (H) x 28.4 mm (D) (only Set)
Weight	0.215 kg (only Set)
CPU	Intel ATOM Processor 330 1.6 GHz(Dual Core), FSB 533 MHz
Chip Set	Nvidia MCP7A-I ON
Main Memory	DDR3 1066 SODIMM type 1 GB, 2 GB
Secondary Storage Device	SATA SSD 8 GB, 16 GB, 32 GB
O/S	Windows Embedded Standard

		SSD		
		8G	16G	32G
DDR	1GB	NC2000-BAAB	NC2000-CAAB	NC2000-DAAB
	2GB	NC2000-BABB	NC2000-CABB	NC2000-DABB

Multi I/O port

Serial Port	N/A
USB Port	Hi-Speed USB 2.0 port 480 Mbps rate (x3)
LAN Port	Realtek RTL8103E 10/100 Mbps Ethernet controller
VGA / HDMI	Nvidia MCP7A-ION integrated Graphic chipset
4-in-1 Card	N/A
PCI Express Card Slot	Supported
LINE OUT	N/A
SPDIF (Digital Audio Out)	N/A

Operational Specifications

Resolution	Maximum Resolution	1920 x 1080 @ 60 Hz			
	Recommended Resolution	1920 x 1080 @ 60 Hz			
Power	Rated Voltage	DC 12 V / 3.5 A			
Sound Output Wattage	N/A				
Operating Condition		Sync (H/V)		Video	LED
	Normal Mode	On/On		Active	On
	Deep Sleep Mode (Set = Off)	Off/Off		Off	Off
Operating Conditions	Operating Conditions	Temperature	5 ℃ to 35 ℃	Humidity	10 % to 80 %
	Storage Conditions	Temperature	-20 ℃ to 60 ℃	Humidity	5 % to 95 %

Included in the Box

Basic Components

The NC2000 consists of the following components. Please check that these components have been included prior to installation.

NC2000

Setup Program/User Manual

screw x 2

Attention

- These illustrations may differ from your product. Some of these are subject to change.

Connections

Back Panel

Number	Connection	Description
A	HDMI Out	For an HDMI-compatible monitor.
B	LAN Connector	For a LAN cable.
C	USB In	For USB-type devices, including memory, hard disk, CD-ROM, key-board, and mouse.
D	PCI MINI EXPRESS Card Slot	Provided for PCI Mini Express Cards.

Installing

We recommend you to use the items provided with your NC2000 and follow our instructions for integrating the product with your monitor in order to ensure the correct results.

Attention

- The monitor illustrations shown are to guide your integration they may differ from your product.

1 Remove the screw and Metal cover.

2 Attach the Box Guide to the rail slots, and press it upward.

3 Use screws to secure the player and the Box Guide as shown below.

What is SuperSign?

SuperSign is a digital signage solution developed exclusively by LG Electronics. The comprehensive LG SuperSign solution offers displays, media player (hardware and software), and management programs.

Note

- Digital Signage Solution is a network-based digital signage communication program. These new advertising media can be used in various places such as commercial and public facilities, airports, and schools, depending on the ad content and location's conditions.

Display

A monitor (or monitors) is connected to the media player and used to display advertising content. LG's SuperSign Solution supports most LCD monitors supporting LG RS-232C protocols. The brightness, resolution, sound, and other features of an LG RS-232C protocols-enabled monitor can be controlled by SuperSign Manager software.

Note

- Display types and their controllable range are listed in the **Appendix** of this manual.

Media Player

SuperSign Solution's Media Player includes the NC1000/NC2000 hardware as well as its software.

Software

The SuperSign Solution provides SuperSign Manager software, an all-in-one management program that is used to control the display and the media player, as well as the means to create and distribute media.

Note

- More information on SuperSign Manager is available in the **SuperSign Manager section** of this manual.
- The contents of SuperSign software are copyrighted by LG Electronic, Inc. and they may not be edited, reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, downloading, digital transmission, imaging, or any other information storage and retrieval system, without the prior written permission of LG Electronic, Inc.

How to Install SuperSign Solution

Via LAN/Internet Network

NC1000/NC2000-integrated monitors can be connected via LAN or the Internet.

Note

- There is no limit to the number of SuperSign Players (NC1000/NC2000) that can be connected.
- With SuperSign Player, each display can play different content at the same time.

Via RS-232C Cable(NC1000 Only)

One NC1000-integrated monitor (with **SET ID = 1**) can accommodate multiple monitors.

Note

- Because only one SuperSign Player is attached, the connected monitors can play the same video only.
- NC2000 does not support RS-232C connection.

What is SuperSign Player?

SuperSign Player is the software portion of NC1000/NC2000, the LG Digital Signage Media Player, designed to play digital signage content. SuperSign Player can play media files such as video, images, audio, Flash files, and documents transferred from the SuperSign Manager.

Attention

- The SuperSign Player is pre-installed on the NC1000/NC2000. Start the NC1000 and check that SuperSign Player is installed.

Note

- The media file types that can be played by SuperSign Player are listed in **Files Supported by SuperSign** section of the appendix.

Start SuperSign Player

Attention

- Power is automatically supplied to NC2000 when the monitor is turned on.

Turning NC1000 On

When you are finished connecting the cables, turn NC1000 on by pushing the power switch at the back panel.

Note

- For details on the NC1000's back panel, go to **Name and Functions of Each Part**.

Turn NC1000 on in the following order:

1	Check that the power cable is properly inserted into the NC1000 power in.
2	Flip the power switch to supply power to the NC1000.
3	Push the NC1000's power button. The green lights will come on to indicate that the power is on.

After the NC1000 is turned on, SuperSign Player automatically runs and its home screen appears.

Attention

- If the home screen is not displayed, check whether the monitor is on.
- If the monitor power is on, check that NC1000 is connected to the monitor with the correct cables.

Note

- Press the **ESC** key on the SuperSign Player home screen to display the desktop.

SuperSign Player Settings

The SuperSign Player can be customized for multiple users.

Log-in to the Setting Menu

1 To use SuperSign Player setting menu, right click on the SuperSign Player ( ) icon located on the Windows taskbar. Its pop-up menu will appear as shown below.

2 Click **Setup** to display the password entry screen.
The SuperSign Player's default password is set to **"0000"**.

3 Type in your password and click **OK** to view <SuperSign Player Menu> as shown below.

Note

- You can change the password by yourself. For details on password setting, refer to the **Password** section of this manual.

Network Settings

You can set the player IP (the IP of the NC1000/NC2000 in which SuperSign Player software is installed) and the server IP (the IP of the PC on which SuperSign Manager software is installed) in Network Settings.

NIC Setting

With NIC Setting option, you can select a network interface card from the list. This option is used when there are more than one network card installed on your player.

Note

- The SuperSign Player will automatically detect a network interface card available when the player is started.

Player IP Setting

The **Player IP setting** is for the NC1000/NC2000 IP settings. It is set to **Dynamic IP** by default.

- With **Dynamic IP** enabled, the IP will be automatically generated.
- With **Static IP** option, you can assign a specific IP for NC1000/NC2000 by yourself.
- The **Player name** is set to the MAC address of the NC1000/NC2000 network device by default. The user can change it later.
- Click **Save** to save settings.

Server IP setting

In the **Server IP** settings, you can set the IP of the PC (server) on which SuperSign Manager is installed.

It is set to **Auto Setting** by default.

- With **Auto Setting** selected, the IP of the server using the same network as the player will be automatically assigned.
- With **Manual Setting** selected, you can choose a specific server IP.
- Click **Save** to save the settings.

Note

- Only IPv4 is supported in the player and the server IP settings.
- If you entered the IP manually, and the network is disconnected, check the IP address and try again.

Wizard Setting

The SuperSign solution now provides **SuperSign Wizard setting** that guides you through the necessary steps to configure the network settings on your SuperSign Player and SuperSign Manager.

Attention

- Before continuing with the **Wizard setting**, please make sure that you already have a SuperSign Manager installed on your server. If not, the wizard may not setup network connections correctly.

Follow the steps below to setup network connections by using the **Wizard**.

1 Select the network environment that you want to use to connect to SuperSign Manager and SuperSign Player.

- Choose the **LAN** when the SuperSign Manger and the SuperSign player are connected to the same network.
- Choose the **WAN** when the SuperSign Manger and the SuperSign player are connected to the different networks.

Note

- If the default gateway address and the subnet mask set to the SuperSign Manager are same as the SuperSign Player, they are connected to the same network.
- Here is how to find the default gateway address and subnet mask set to your SuperSign Manager.
  Go to the desktop of the server on which the SuperSign Manager is installed.
  1. Click **Start > Control Panel**.
  2. On the control panel, double-click **Network Connections**.
  3. Right-click **Local Area Connection**.
  4. Click **Properties**.
  5. Select **Internet Protocol (TCP/IP)**, and then click **Properties**.
  6. The Internet Protocol (TCP/IP) Registration Information dialog box appears.
  7. Check the default gateway address and the subnet mask.
- For SuperSign Player network settings, see **SuperSign Player Settings > Network Settings** in this manual.

2 Enter a name for SuperSign Player. The SuperSign Manager will use these names to identify the connected players.

3 Select a network interface card that will be used for network connections.

4 Set SuperSign Player IP address. The Player's IP address can be assigned automatically or manually.

- Choose the **Dynamic IP** when you want the Wizard to automatically set the IP settings.
- Choose **Static IP** when you want to assign the IP address yourself.

5 Set the IP address for the server on which SuperSign Manager is installed. The server's IP address can be assigned automatically or manually.

- Choose the **Auto Setting** when you want the Wizard to automatically assign the IP address to the server.
- Choose the **Manual Setting** when you want to assign the IP address yourself.

6 A connection will be made if the player is connected with a network cable properly. To complete the network connection, move to SuperSign Manager and select **Option > Start** search in the File menu. Please check the connection to players by running "**Start search**".

Attention

- If you receive an error message, make sure that the server and player are connected to the network and try again.

Screen Setting

In the Screen Setting menu, you can choose the screen view type. The type is set to **Landscape** by default.

- Select **Landscape** when you position the monitor horizontally.
- Select **Portrait** when you position the monitor vertically.

Password

In Password menu, you can set a password to access the **SuperSign Player Menus**.

Settings

You can choose whether you want to use a password when entering the **SuperSign Player Menu**.

- If you select **Enable**, you must type in your password to use the **SuperSign Player Menu**.
- If you select **Disable**, you can use the **SuperSign Player Menu** without entering your password.

Change

You can change the password required for the **SuperSign Player Menu**. The password should be a four-digit number. You will then have to use your new password to launch the **SuperSign Player Menu**.

1	Enter a new password in **Change** menu and click the **OK** button. The **Verify** menu will be activated..
2	In the **Verify** menu, re-enter the same password you used in the **Change** menu. Save the change by clicking the **OK**.
3	This will display the message: **"Your password has been changed."**

EWF

In the **EWF** menu, you can select whether you want to use the **Enhanced Write Filter** feature of Microsoft Windows Embedded Standard.

- **EWF** protects against viruses that can destroy the product file system.
- With **EWF** enabled, you cannot add, delete, or modify data saved on the C drive of the NC1000/NC2000.
- When you need to add a new program to the NC1000/NC2000, disable **EWF**.
- With **Enable** selected, the new program cannot be installed.
- To apply the change to **EWF,** restart your system.

Note

- For more information on **EWF**, visit the Microsoft website.
- Settings of the **<SuperSign Player Menu>** such as network and screen settings and the **EWF** password are not deleted, because they are not controlled by **EWF** functions.
- It takes about five seconds to two minutes for the **IP** and **EWF** setting changes to be applied.

Attention

- When **EWF** was enabled, the data will be deleted if you reboot the machine even though you saved data in the C drive. If you want to keep the data, save it in the D drive.

Initialize S/W

The **Initialize S/W** menu allows you to initialize the SuperSign Player settings.

When you click the on the menu, an alert window will be displayed as shown below.

When you click **Yes**, the SuperSign Player settings will return to the same conditions that existed at the time of your purchase.

Attention

- Even after you initialize the software, the network settings will not be reset.

Language Options and Regional Settings

Language Options and Regional Settings

If you want to change the language, you can use **Regional and Language Options** of Microsoft Windows Embedded Standard, the NC1000/NC2000's operating system.

To Change the Language:

1	Disable **EWF** in SuperSign Player Menu.
2	In Windows, select **Start > Setting > Control Panel > Regional and Language Options**.
3	Choose the language you want to use as shown in the illustration.
4	Re-install SuperSign Player with the new language.
5	Enable **EWF** in SuperSign Player Menu.
6	Reboot the system.

Attention

- SuperSign Manager and SuperSign Player should use the same language.

SuperSign Player Functions

Signage Mode (Video Playback Mode)

Set up the SuperSign Player runs automatically. Then SuperSign Player automatically executes the **Play Schedule** feature. **Signage** mode is for playing pre-distributed videos based on the assigned schedule.

The **Signage** mode screen is shown below.

Note

- When SuperSign Player is restarted, ad content is automatically played according to the last transferred schedule. However, content distributed from the **Edit Contents** or **Management** menu of SuperSign Manager will not play automatically even if SuperSign Player is restarted. See SuperSign Manager Schedule for details.

Attention

- The Playback may be slow when more than two full HD videos (H.264, MPEG-2, WMV) or other types of media are played simultaneously.
- When text is overlapped with more than two videos, this may cause blinking.
- The **PowerDVD SE** is included in SuperSign Player. If you remove the **PowerDVD** from SuperSign Player, quick video play will not be available.
- If you use **Transition effects** onto full-HD pictures or more than two pictures, playback may become slow.
- A change to the Windows Standard Timeline will be applied after SuperSign Player is restarted.

Tray Icon Description

If you click the **ESC** key in signage mode while videos are playing, the video will pause and move to the desktop.

The SuperSign Player tray icon shows the server connectivity status as shown below.

SuperSign Player Tray Icon	Description
	SuperSign Player is being installed.
	SuperSign Player is being uninstalled.
	SuperSign Player is connected to the server in which SuperSign Manager is installed.
	SuperSign Player is not connected to the server in which SuperSign Manager is installed.

Tray Icon Menu

Right-click the SuperSign Player tray icon in the lower right of the desktop to display the tray menu.

Menu	Description
Open Exported File	This shows the content list transferred by SuperSign Manager. You can select the content you want to play from the folder in which it was saved.
Play schedule	You can play the content based on the SuperSign Player's schedule.
Delete Schedule	Delete the schedule stored on the SuperSign Player.
Setting	Go to the SuperSign Player Menu.
About the Program	The program information including SuperSign Player software version is shown here.
Exit	Exit SuperSign Player.

Viewing SuperSign Player Summary Information

When you move mouse over the SuperSign Player tray icon, the program summary information will be shown for about five seconds.

Information Type	Message	Description
Software Information	SuperSign 1.0.1.1	The SuperSign Player version.
Server Connection Information	Disconnected	Disconnected from SuperSign Manager. Connected to SuperSign Manager
	IP Address	The IP address of the connected/disconnected SuperSign Manager
Schedule Information	Ready	There is no schedule registered.
	Scheduled	There are one or more schedules registered.

What is SuperSign Manager ?

Product Information

SuperSign Manager is a network-based comprehensive management program that creates and manages digital media, distributes content, and supports video playback and remote control.

Contents Edit

You can create content for the SuperSign Player with a variety of media files. It supports numerous media files, including video, audio, documents, and Flash files, and applies an easy drag and drop feature to facilitate content creation.

Schedule Management

You can manage the schedules of your content to be played in the SuperSign Player. Schedules can be assigned by period as well as time.

SuperSign Player Management

You can register and manage more than one SuperSign Player on the same network. You can manage the registered SuperSign Players by controlling their power on/off, multiple monitor connection, and updates.

How to Install SuperSign Manager

The SuperSign Manager is supplied with the NC1000/NC2000. Insert the CD included with the NC1000/NC2000 into your PC and install SuperSign Manager.

System Requirements

SuperSign Manager PC Recommended Specifications

Accessories	Requirements
CPU	2.5 GHz Core 2 Duo L2 Cache 2 MB or higher
RAM	2 GB or higher
HDD	250 GB or higher
Network	100 Mbps or higher
OS	Windows XP sp3 or Window 2003 Server
Graphics Card Memory	512 MB or higher

SuperSign Manager PC Minimum Requirements

Accessories	Requirements
CPU	2.0 GHz L2 Cache 512 KB or higher
RAM	1 GB or higher
HDD	40 GB or higher
Network	10 Mbps or higher
OS	Windows XP sp2 or higher
Graphics Card Memory	512 MB or higher

Note

- SuperSign Manager supports Windows XP (32-bit), Windows 2003 Server (32-bit), and Windows VISTA (32-bit) only. The program cannot be run on operating systems other than those listed above.

Installing the Program

When the CD provided with the NC1000/NC2000 is inserted into a PC, the installation program will run automatically as shown below.

A	SuperSign Program Installation	Installation is initiated by clicking **SuperSign Manager**.

Note

- If the installation program does not run automatically, open the window manually by double clicking the file **SupersignMgr_setup.exe** in the CD-ROM drive: **₩SuperSign₩SuperSign_Software₩Application₩SuperSign_Manager₩**directory of the CD.

Installing SuperSign Manager

When the CD provided with the set is inserted into a PC, the installation program will run automatically. Follow the steps below to install the SuperSign Manager.

1 Click **Run** in the Download file pop-up window.

2 Click **Run** in the Security Warning pop-up window.

3 Select the language and then click **OK** to continue.

4 After reviewing the installation instruction, click **Next** to continue.

5 If necessary, change the installation path to the directory where you want to **install** SuperSign Manager. Click **Next** to continue.

6 Installation is initiated. Click **Details** to see the detailed installation process information during installation.

7 During the installation process, Adobe AIR installer will run to install it. Click **Agree** to install Adobe AIR. You must install Adobe AIR to use SuperSign Manager properly.

8 Click **Complete** to finish the installation of Adobe AIR.

9 Adobe Flash Player Active X installation is initiated.

10 Click **DONE** when the installation of Adobe Flash Player Active X ends.

11 After SuperSign Manager installation is complete, click **Finish** to exit the installation.

Note

- When you re-install the program without uninstalling it, you can preserve the data or initialize the system.
- If you use Windows Vista, you should log on as an administrator. Otherwise, you cannot install the program.

Uninstalling the program

To uninstall SuperSign Manager, Click **Start > Program > SuperSign Manager > Remove SuperSign Manager**.

Follow these steps to uninstall SuperSign Manager.

1 Click **Remove** to start the un-installation of SuperSign Manager.

2 Click **Details** to see the detailed un-installation process information during un-installation.

3 After SuperSign Manager uninstallation is complete, Click **Finish** to exit the un-installation.

Note

- SuperSign Manager can be uninstalled by using **Add** or **Remove Programs** in Control Panel.

1. Windows XP, Windows 2003 Server
   Select SuperSign Manager in **Start > Settings > Control Panel > Add** or **Remove Programs**, click **Remove**.

2. Windows VISTA
   Select SuperSign Manager in **Start > Settings > Control Panel > Programs** and **Features > Uninstall** or **change a program**, click **Remove**.

Attention

- All data created by the user will be deleted when the program is uninstalled.

Starting SuperSign Manager

Starting SuperSign Manager

Open the program by clicking **Start > Programs > SuperSign Manager > SuperSign Manager**.

Logging In

1	When SuperSign Manager starts, a log-in window appears as shown below.
2	If you are running SuperSign Manager for the first time, you should create an ID and password you want to use. Log in to SuperSign Manager by clicking the **OK** button. When you click the **Cancel** button, your login will be canceled, closing the program.

Note

- When SuperSign Manager is initially run, the default user ID is set as **"no quotes"**, which you can change later.

Attention

- You must remember the new ID and password you set because they will be needed for the next login.
- If you lose your password, it cannot be restored. You will need to initialize the administrator account.
- To do this, enter **"1234567890init"** in the password field.
- Your ID and password can be up to 20 characters each.

Selecting Players

1 When you are signed in, SuperSign Manager automatically searches for SuperSign Players on the same network.

2 When scanning is finished, the available SuperSign Players are listed.

3 Select the SuperSign Player to which you want to connect and then click OK or the Canvas Setting button.

- **Scan**
  Repeat the search for connected SuperSign Players.
- **Canvas Setting**
  You can set the desired resolution.
- **OK**
  The **OK** button brings up a window from which you can choose templates and layouts.
- **Cancel**
  Cancel the selected SuperSign Player.
- **Do not display on the next startup.**
  The Select a Player window will not appear again.

Note

- Time for searching players may vary depending on the number of players.

Setting Canvas

The canvas is a space where you can import and edit photos, videos, and text.

1 Click **Canvas Setting** in the Select a player window to display it.

2 You can select the resolution you want in the Canvas Setting window. Choose the resolution and click the **OK** button.

Note

- If you click the OK button on the Select a Player screen, the Canvas Setting is skipped and you go directly to the Select Template or Layout screen.
- SuperSign basically supports 1920 x 1080, 1360 x 768, 1080 x 1920, and 768 x 1360 monitor resolutions.

Selecting Templates or Layouts

SuperSign Manager provides popular layouts or templates to help users create content easily and quickly.

1 When you click the **OK** button on the Select a Player window or the Canvas Setting window, the Select Template or Layout screen will appear.

2 Select a template or layout and then click the **OK** button.

Note

- SuperSign provides templates and layouts if the resolution is 1920 x 1080, 1360 x 768, 1080 x 1920, or 768 x 1360.

SuperSign Manager Overview

Index	Item	Description
A	File Menu	The major features of SuperSign Manager are listed here.
B	Top Menu	With tab menus, content editing, content play schedule setting, system management are done here.
C	Workspace	Content editing, playback schedule setting, and player management are done here.
D	Hide Button	If you click the **Hide** button, the window not in use will be displayed or hidden.

Contents Edit

SuperSign Manager provides a media content editor.

You can create content and play it in SuperSign Player with this content editor.

Overview

Content editing and various other features are available under **Contents Edit** in the top menu.

Index	Item	Description
A	File Menu	The major features of SuperSign Manager are listed here.
B	Top Menu	With tab menus, content editing, content play schedule setting, system management are done here.
C	Media Window	You can view items registered in the templates and the media library. The SuperSign Player's registered information is available here.
D	Quick Menu	Popular content editing features are displayed for easy access.
E	Timeline	An intuitive timeline is provided to allow for time editing and arrangement by zone. The timeline allows you to specify the duration for each content clip so that your media will play at the designated time. Start time, duration and end time of the zone can be set.
F	Canvas	The canvas is a space where you can import and edit photos, videos, and text. You can divide the canvas zone and apply a different layout in each section. By overlapping many images in the divided sections in different timelines, you can create multiple image layers.
G	Tool Window	You can change the properties of the selected zone or media. Use this to change background color or image properties.
H	Properties	Displays the properties of the selected zone or media. Information about the connected SuperSign Player and the resolution of the zone is displayed.

Checking details

Index	Description	
A	Canvas file name and resolution.	
B	Buttons for creating zones and text boxes.	
	Zone	Create a zone on the canvas. Click the **Zone** button and then click on the canvas to create a zone.
	Text	Create a text box on the canvas. Click the **Text** button and then click on the canvas to create a text box.
C	50	The scroll bar used to zoom in or out on the canvas screen. The screen size is controlled by moving the bar or entering a number in the field. The unit for the screen size adjustment is 10.

Note

- What is a Zone?

  A SuperSign Manager Zone is an area on the canvas in which media or a layer is placed while the content is being edited. You can create a zone by combining different types of media items and creating an ad by including another zone or zones (a zone can accommodate only one type of media). The zone can include photos, documents, web pages, videos, Flash files, music, and more. Because each zone is a separate area, it has its own properties and can be easily deleted or inserted. Also, ad content is easily created by dragging and dropping onto the canvas.

Index	Description	
D	Quick menus that allows using popular content-editing features.	
	Preview	You can preview your content before playing it with SuperSign Player. This allows users to preview the content being edited within the canvas prior to exporting it to SuperSign Player.
	Send to player	You can transfer your content to SuperSign Player that is on the same network as SuperSign Manager.
	Stop the player	Stop playing the content currently playing on the player.

Attention

- Make sure that the MS Office programs are closed before previewing MS Office files.
- Office or web files may not be displayed in the edited order (Z-order).
- To loop Flash files, set them to play repeatedly.

Note

- Content file names can include letters, numbers, and special characters such as @, #, $, %, [,], { and }.

Changing Layouts

You can change layouts to suit your needs.

1	Click **Template > Layout** in the left part of the SuperSign Manager screen.
2	This will display the layouts registered in the media library.

3	Double-click on a new layout.
4	It will be shown on the canvas.

Attention

- If you change the layout, the content you are editing will be lost. Save it before changing the layout.

Changing Templates

As with layouts, you can change templates to suit your needs.

1	Click on **Template** in the left part of the SuperSign Manager screen.
2	This will display the templates registered in the media library under different categories. The categories include bar/restaurant, shopping, and public organizations.

3	Double-click on a new template. This example explains how to change an existing template to a shopping mall template. (double-click the **shopping**.)
4	The selected template will appear on the canvas.

Attention

- If you change the template, the content you are editing will be lost. Save it before changing the template.

Using Library

The media library is used to enroll media files needed for media content production, and to use services, including websites, RSS, and Widget. To register media files in the media library, click the **Library** tab on the media window in the left part of the SuperSign Manager screen.

Note

- A video thumbnail is picked randomly from the middle frames of the file.
- If a video cannot be uploaded, check the required codecs from the **Codec Package Installation** in the appendix.

The library is divided into media and service as shown below.

Add a Media File

You can add photos, videos, Flash files, music, PDF, and MS Office files on the media tab.

To add media, click

on the media tab.

After you select the file from the **Select Files** window and click the **Open** button, the media file will be registered in the library as shown below.

In addition to photos, the same process can be used to register videos, Flash files, music, PDFs, and MS Office files.

Attention

- Please note that when a media file is deleted from the AutoUpload folder, it will also be removed from the library.

Note

- Registered media files are automatically saved in the AutoUpload folder in the folder containing SuperSign Manager. For example, C:\Program Files\SupersignMgr\AutoUpload.
- Once registered, a media file will be automatically logged in the library whenever SuperSign Manager is run.
- To change the library folder, click **Options > Contents Edit** in the file menu and select the **Local media library folder information** field.
- By setting the Sync (Auto-upload) cycle in the **Options > Contents Edit** under the file menu, your library's media files will be automatically uploaded at every designated time. To start the Auto-upload process, click **Start Sync**.

Add Service Contents

You can use SuperSign Manager to add online content such as websites, RSS feeds, and widgets, as well as their date and time.

Click **Library > Service** on the media window to launch the menu for adding content as shown below.

Note

- Service contents cannot be saved together with media files in the library.
- For details on adding content, refer to the Create Content section of this manual.

Creating Contents

Follow these steps to create contents:

1 **Select Template or Layout**

Select a layout or template to display various media on the screen. The example shows the layout set to **None**. For specific information on how to change layout, refer to **Changing layouts** or **Changing Templates** section of this manual.

2 **Register Media in Library**

To use a media file, you first need to register it in the library. Register a media file as described in the **Using Library** section of this manual.

3 Display Media

You can exhibit media such as photos, videos, music, PDF, and MS Office files registered in the library.

There are two ways to display media on the canvas.

Add Media to Zone

1 Click the **Zone** button in the upper right of the screen. Keep the **Zone** button on.

2 Move the mouse onto the desired location within the canvas and click.
The zone is created as shown here.

3 Drag and drop a media file already registered in the library.

4 The media will be added to the zone.

Drag Media

You can directly display media files.

1 To do this, drag and drop a registered media file.

2 The file will be displayed on the canvas as shown here. A new zone is also automatically created. The size and location of the new zone can be adjusted.

4 Display Service Content

You can use SuperSign Manager to add online content such as websites, RSS feeds, and widgets, as well as their date and time.

To add service content, click **Library > Service** on the media window.

Add Websites

1 To add a website, enter the URL you want to add and click **Add**.

The website zone will be added on the canvas.

2 Move the new website zone to the desired location. Click **Preview** in the quick menus. You will see the website added as shown here.

Add RSS Feeds

1 To add an RSS feed, enter the URL you want and click **Add**.

The RSS feed zone will be added on the canvas.

Note

- The service and text zones can include one item each.
- RSS (Really Simple Syndication) is used to publish frequently updated works. Using RSS reader software, users can subscribe to receive regularly updated content provided by their favorite sites in an RSS-compatible format.

2 Display the RSS feed zone on the desired location on the canvas. Click **Preview** from the quick menus to see the screen with RSS content added.

Add Widgets

1 To add widgets, enter a widget code and then click **Add**.

The widget zone will be added on the canvas.

Note

- Widgets are small icons linked to frequently used services that users can run without opening a web browser.

2 Display the RSS feed zone on the desired location on the canvas. Click **Preview** from the quick menus to see the screen with RSS content added.

Add Dates

1 To add dates, click Add **Date** in the **Date/ Time zone**.

The date zone will be added.

2 Display the RSS feed zone on the desired location on the canvas. Click **Preview** in the quick menus to see the screen with the added time information.

Add Times

1 To add times, click **Add Time** in the **Date/ Time zone**.

A time zone will be added.

2 Move the new time zone to your desired location. Click **Preview** in the quick menus to see the screen with the added time information.

Copy Zones

A zone on the canvas can be copied and pasted to other spaces.

1 To do this, first select the zone you want to copy.

2 Click **Edit > Copy** in the file menu, or press **Ctrl + C** to copy the selected zone.

3 Click **Edit > Paste** in the file menu, or press **Ctrl + V** to paste the selected zone onto the canvas.

Note

- If you copy a zone, its properties and the media in it will be copied as well.

Setting Timeline

The timeline allows you to set the duration for each content clip so that your media can be played at the designated time. On the timeline, you can set the start time, duration, and end time of the content in the zone. You can set content to play for up to 12 hours.

Overview Timeline Setting

	You can display or hide the boundary color and file name of the zone on the canvas.
	(On: , Off:)
1m'	Set the basic time unit of the timeline. Time units that can be selected are 1 minute, 10 minutes, or 30 minutes.
Web	Double-click on the zone name to change it. Click on the square in front of the zone name to change the zone's boundary color.
	You can enable or disable the repeat function. A zone with this feature on will be played repeatedly until the registered end time.
	(On: , Off:)
	Lock the zone. Locked zones cannot be selected or edited.
	(On: , Off:)
	Delete the selected zone. To do this, select the zone you want to remove and click or move the zone to the icon. You can delete the media within the zone using the same methods.
00:01:17	This shows the total duration of the content. This time indicates the longest duration time of the zones.
background	Change the canvas background color or image. Click the square in front of the canvas name to change its background color. To change the background image, drag a photo from the library and drop it into the canvas timeline. Only one background image can be used at a time.

Add Media to Timeline

To add media to the timeline, drag a file to the timeline of the zone you want to add.

Copy Media to Timeline

1. Select a media file from the timeline.

2. With the desired media file selected, press **Ctrl + C**.
3. Press **Ctrl + V** to paste the file.

Note

- You cannot copy text or services, including RSS, websites, and widgets.

Distributing Completed Content

You can distribute content by sending it from SuperSign Manager to SuperSign Player in order to play it there. There are three ways to distribute your content:

Immediate Distribution

Instantly send created content to SuperSign Player and play it immediately.

1	Select **Player** in the media window. The SuperSign Players currently connected will be listed.
2	Select the SuperSign Player to which you want to transfer your content.
3	Click **Send to Player** in the quick menus. The SuperSign Send to Player window will appear. If there is no connected player, the Please Select a Group or Player window will be shown for the player search.

4	Enter the duration in the SuperSign Send to Player window and click **OK**.

- Constant Repeat : Playing continuously until a new schedule is added.
- Duration : Continue to play at this time for the duration.

5	Once the content is sent to SuperSign Player, it will be played on the connected screen.

Note

- When you transfer content via **Send to Player**, the schedules previously sent will be overwritten.
- With **Send to Player**, the content will be sent to player groups, not to an individual player.
- If the "The storage capacity is full." message appears, please check the free space available in the management menu of SuperSign Manager.

Scheduled Distribution

You can send content to SuperSign Player at the scheduled time. The content will be sent and played at the designated time. For details on the scheduled distribution, go to the **Schedule** section of this document.

Export Contents

You can save content as a file format playable with SuperSign Player. The saved content can be moved via a removable disk to be played on SuperSign Player.
The steps for exporting content are described below:

1	Complete the content and click **Export contents**.
2	Specify the folder in which the content will be saved.
3	Click **Export Contents** to create a new folder in which to save the content. ● The content's media and information files will be stored in the folder. ● Use a USB storage device to play the content file sent as **Export Contents**. ● **Export Contents** can be automatically or manually played in SuperSign Player.

Attention

● **Export Contents** is not available for images provided with the templates.

Note

● Content that is saved in a USB storage device through **Export Contents** can automatically be played in SuperSign Player as follows, depending on how the content was saved.
1. Create a folder named "AutoPlay" in the USB device.
2. Copy the cts and media files created by the **Export Contents** function to that "AutoPlay" folder.
3. When the USB device is inserted into the NC1000/NC2000 USB port, the content will play automatically.
4. When you remove the USB device from the port, the playback will be closed.

Content Properties/Tool

In SuperSign Manager, users can check and modify the properties of the selected content.

Selecting a **Canvas zone** displays the zone **properties** in the upper right of the Properties window. You also can change the time, image size, play repeat, and volume of the zone in the **Tool** window below the properties window.

Content Properties / Tools

■ Media File

Shows information on the connected players and groups.

Background resolution.

Background customization Pictures only in the media library can be used as background.

<Background>

Shows information on the connected players and groups.

Zone infomation.

Zone customization.

Changes zone order (bring to front, bring forward, send backward, send to back).

Repeat setting within canvas.

<Zone>

Shows information on the connected players and groups.

Shows information about the selected picture.

Sets a playback time for the selected picture.

Fit to zone as original.
Fit to zone, keeping ratio.
Fit to zone as full screen.

Adds special effects to the picture.

<Photo >

Shows information on the connected players and groups.

Shows information about the selected video.

Sets the playback time.

Fit to zone as original.
Fit to zone, keeping ratio.
Fit to zone as full screen.

Specifies whether to repeat the playback of the selected video within the set media playback time.

Volume control.

<Video>

Shows information on the connected players and groups.

Shows information about the selected audio.

Sets an audio playback time.

Specifies whether to repeat the playback of the selected audio.

Volume control.

<Music>

Shows information on the connected players and groups.

Shows information about the selected Flash file.

Sets Flash file playback time.

Specifies whether to repeat the playback of the Flash file..

<Flash>

Shows information on the connected players and groups.

Shows information about the selected document.

Sets an PDF playback time.

<PDF/Office>

■ Service

Shows information on the connected players and groups.

Web site to be linked.

Sets the playback time for the selected web site.

Changes the web site to be linked.

<Web site>

Shows information on the connected players and groups.

Sets a text playback time.

Sets the text format to the selected style.

Sets the direction and speed of the text movement.

<Text>

Shows information on the connected players and groups.

RSS (Really Simple Syndication) feeds to be linked.

Sets the playback time for the selected RSS feed.

Sets the text format to the selected style.

Sets the direction and speed of the text movement.

Changes the RSS feed to be linked.

Sets space between RSS titles.
Sets RSS update period.

<RSS>

Shows information on the connected players and groups.

Sets a date playback time.

Sets the text format to the selected style.

Date format.

<Date>

Shows information on the connected players and groups.

Sets a playback time for the time content.

Sets the text format to the selected style.

Time format.

<Time>

Shows information on the connected players and groups.

Information about the connected widget.

Sets a widget playback time.

Changes the URL of a widget to be connected.

<Widget>

Schedule

A schedule is the time table for playing content in SuperSign Player.
Schedules are set as daily, weekly, or repeating.

Overview

Index	Description	
A	Information about the player connected to SuperSign Manager is displayed. The content and media files created in the content editor are listed.	
B	Display times are set by 10 minutes, 30 minutes, or one hour.	
C	Assign content and media files to the desired times. You cannot set them to a date already past. The schedule should be within 180 days after the present date.	
D	Schedules are shown in three different modes.	
	● Today	The daily schedule (24-hour unit) is displayed. Click the **Today** button of the daily mode to move to today's date. Click the **Today** button of the weekly mode to display the present week.
	● Daily	The daily schedule (24-hour unit) is displayed. Click the **Today** button of the daily mode to move to today's date. Click the **Weekly** button of the daily mode to move to the selected dates.
	● Weekly	The weekly schedule (7-day unit) is displayed. Click the **Today** button of the weekly mode to display the present week. Click the **Daily** button of the weekly mode to go to the selected date. If no date is selected, it will go to the first day of the selected week.
E	Schedule properties are displayed.	

Properties and Tool Windows

A The name, type, and resolution of the selected player.

B Preview the selected content.

C The properties of content or media files for which schedules are registered.

D Enter the duration directly to display content.

E Set a repeat cycle.

To set repeat cycles:

1	Enter the end time for the repeat.
2	Set the days for scheduling the repeat before the end date.
3	Check the **Every day** box to repeat the play every day.
4	Click the **OK** button to update the schedule with this change.

Setting schedules

Follow these steps to make a schedule:

1	Click the **Player** menu in the media window and select SuperSign Player on which to change schedules.
2	The current schedules of SuperSign Player will be displayed.

3	To change the schedule, select content or a media file from the **Library** on the media window.
4	Create the basic schedule by dragging and dropping the selected content or media files.

5	You can adjust the time by dragging a cell down, or by entering its time directly in the properties.

Note

- The schedule blocks can be adjusted up to 24 hours in increments of 10 minutes.

Copying Schedules

Schedules can be copied in order to re-use them.

1	Select the schedule blocks you want to copy.
2	Press **Ctrl + C** to change the mouse pointer to the copy icon ( ). Press the **Esc** key to turn the icon back to the mouse pointer.
3	Click the point on the schedule table where you want to paste the copied schedule.

4	Click **Save** to apply the change.

Deleting Schedules

Delete Schedules via File Menu

Select the schedule block you want to delete and then select **Edit > Delete** in the file menu.

Delete Schedules via X Button

Select the schedule block you want to delete and then click **Delete**.

Delete Schedules via Delete Key

Select the schedule block you want to delete and then press **Delete** on your keyboard.

Distributing Schedules

Immediate Distribution

Send the schedule to a selected player by clicking **Send to Player**.

Scheduled Distribution

You can set scheduled distribution times in **Option > Distribution** under the file menu.

The schedule distribution time is **disabled** by default.

Note

- You can stop the transfer while schedules or content is being sent. Once suspended, you should resume the transfer process from the start. If the transfer is not 100% completed, the content will not be played.

Management

The SuperSign Players connected to SuperSign Manager and the monitors connected to each player can be managed by group in the management menu. By grouping distribution destinations, duration, and places to be displayed, you can control player and monitor information.

Overview

Index	Description
A	The SuperSign Players connected to SuperSign Manager are listed.
B	Content and media files created from the content editor will be listed.
C	There is an information tab containing the selected SuperSign Player, and a control tab with control settings. The player and control information will not be shown if you select a group.
	* : Group, : Player, : Display Device
D	SuperSign Manager software items Scan — Research players. Add — Add a new group. Delete — Delete the selected group. Tree view — Tree view mode List view — List view mode
E	Double-click the group or player to rename it.

Note

- Group, player, and display names can be up to 20 characters each.

Note

- If a player is disconnected, it will automatically attempt to reconnect the SuperSign Manager.
- If SuperSign Manager becomes disconnected while in use, an alert message appear and status lights will blink.

Note

- When more than one SuperSign Managers are used, you cannot use them to control the same player at the same time. You should use the **Manual Setting** to connect the player to be controlled.
- When players are searched from more than one SuperSign Manager, the first player found will be connected. The same player cannot be used by different managers.

Manage Functions

Distribute Content Immediately

Drag content or media files onto the management screen to distribute them immediately to the connected SuperSign Player.

1	Select the content or media files to send to SuperSign Player in the library.
2	Drag the file to the desired SuperSign Player.
3	The SuperSign Send to Player window will appear.
4	Enter the duration in the SuperSign Send to Player window and then click the **OK** button.

- Constant Repeat: Keep playing until a new schedule is added.
- Duration: Continue to play at this time for the duration.

5	Once the content is sent to SuperSign Player, it will be played on the screen connected to SuperSign Player.

Note

- When you distribute media by drag-and-drop, it will be applied to the player group, not to an individual player.

Manage Groups

You can manage the players in a group and their displays here. When you select a group, the group-based tabs will be activated. With the group-based tabs, you can control the player power, display power, time, screen, audio, video, and other general features.

Note

- The status information is not available in the group control.

Control Players

You can control players that are in a group or are individually connected.
When you select a player, the appropriate items will be shown on tabs for each player.
The player's power, tile production, general features, and updates can be controlled here.

Note

- Scan allows searching **players** that share the same network with SuperSign Manager.
- The information of the searched player includes the player and the display.
- The SuperSign Player's power (On/Off) can be controlled in the same network.

Control Displays

You can control the display connected to the player. When you select the display, the settings with tabs will be activated. The display power, time, screen, audio, video, tile adjustment, and other general features are available here. Each tab will list the settings of the current display.

Note

- The display control will be activated according to its entries or options.
- The display control shows the status information of the connected display.
- RS-232C commands through hyper terminals are not executed while SuperSign Player is in use.

※ This function is not supported for NC2000.

Creating Tile Mode

Execute the **Display Search for Daisy Chain** before configuring **Tile Mode**.

1

You can specify the number of rows and columns in the Tile Mode with mouse clicks or drag and drop. The size of tile cannot exceed the maximum number of displays connected.

Click **Next**.

2

Click the button to move to the next step.

Layout for the display wall will be organized automatically according to the tile size you set above.

You can configure each display's input.

3

You can select a display to be used in organizing the Tile Mode.
The displays you select will be highlighted as shown above.

※ This function is not supported for NC2000.

4

Specify the input source of the selected displays.

Attention

- If select input source after selecting one display, the display sets its tile size as 1x1.

5

You can choose the order of the displays using drag and drop.

6

Apply : Complete the settings for a tile mode.
Cancel : Cancel the settings you made.
Reset : Reset the settings to the default configuration.

In the **Preview/Apply** tab, the tiled image can be previewed.

Note

- The number of tiles cannot exceed the number of connected monitors.
- To connect multiple monitors for tile mode, see the How to Install section of this manual.
- The control shows the status information of the connected display.

※ This function is not supported for NC2000.

Option

1	If you want to manually search for a display after connecting the monitor with an RS-232C cable, select the Player and select **Control > Options > Display search for Daisy Chain**.
2	Click **Search** to find and add the display connected with a Daisy Chain.

Other Features

Update Now

You can remotely update the SuperSign Player software.
The player settings which the user entered will not change.

1 Click a connected player on the **Grouping & Monitoring** window and select the update tab menu under the **Control** menu.

2 Press Open to select the SuperSign Player update files downloaded from the SuperSign homepage, www.lg.com.

3 Press **Update Now** to update the software of the selected player. The player in a remote location will be restarted automatically after the updating is completed.
At this time, the player will be disconnected from the manager and then reconnected when the reboot is finished.

Send Messages

You can load messages on the connected player screen for urgent announcements, notices, or emergencies.

A	Set the text properties such as font, size, and color.
B	Enter the message to send.
C	Adjust the location of the text to send.
D	Set the playback time of the message. The default duration is 10 seconds.
E	Complete the message and click **Send** to instantly deliver it to the player.

Note

- Message entry is available only in landscape mode.
- The message will not be saved.
- However, the message format such as font, size, and color can be saved. The format will be saved only if you send the message, and will not be saved if you close the window without sending it.

Create Log Report

You can see the log information of system and contents.

- Log information reflects up to the previous 180 days.
- The report will be updated with the latest information.
- Using **Send Email**, you can send the log report files (.csv) to an assigned e-mail address.
- Change the email settings in **Option > Management**.
- Use **Send an email** in the lower part of the log report window to transfer the log file to the administrator.

Note

- Details on the SMTP email setting are provided in the **Appendix** section of this document.

Frequently Asked Questions (FAQs)

Question	Answer
The transfer stopped during "**Send to player**" task.	● Check whether the media file is an officially supported type and try again. The officially supported media types are available in the Files **Supported by SuperSign** list.
The "**Scan**" shows no available players.	● Check whether the SuperSign Player is on. ● Check whether the SuperSign Player is working properly. ● Check the SuperSign Player's network cable connection status. ● Check the SuperSign Player's network IP address status. ● Set the SuperSign Player's network IP manually.
There are no templates visible in SuperSign Manager.	● When selecting a player, if you select a player's resolution not supported by the template, the template will not be shown. ● The supported resolutions are 1360 x 768, 1920 x 1080, 768 x 1360, and 1080 x 1920.
The data saved in the SuperSign Player's C drive were lost.	● SuperSign Player uses the **Enhanced Write Filter (EWF)** function for data protection. With **EWF** on, data saved by users in the C drive are only temporarily saved. These temporarily saved data will be deleted when SuperSign Player is rebooted. If you do not want to use the **EWF** function, go to the Player menu and disable **EWF**.
MS Office files do not open in SuperSign Player.	● Check whether MS Office program is properly installed. With **EWF** enabled, MS Office will not be correctly installed. Disable **EWF** and re-install MS Office. We advise you to enable **EWF** after the installation is completed.
Content is not playable even though the content I sent to the player was registered in the media library.	● The player will not play the new content received if another file is playing on the same player. Stop the content currently playing and then repeat the "**Send to Player**" process.
Letters of RSS, text, or messages are not correctly displayed.	● Change the MS Windows language setting using **Regional and Language Options**.

Frequently Asked Questions (FAQs)

Question	Answer
I cannot see photos or PDFs.	● Check the current settings of **Regional and Language Options** in MS Windows and change the file name to be consistent with the language, then reregister the file in the library. For example, photos with a name in Korean may not be seen when the language is set to English.
After changing the time on the Windows-based machine on which SuperSign Player is installed, I found that it changed back.	● First check whether **EWF** was disabled when you changed the time setting. ● If it was enabled, disable it and then try again. ● Also check for the time sync option by right-clicking the Windows taskbar and opening the Date/Time dialog menu. With this option checked, the time will regularly reset according to the timeline selected by the user. If you do not want to use this function, select the Internet Time tab on the menu screen and uncheck the "Automatically synchronize with an Internet time server" item.
After I sent content while SuperSign Player was playing a video, the video was disrupted.	● This could be caused by the network status. Please retry the transfer when no content is playing in the player.
I lost the administrator password of SuperSign Manager.	● Once lost, the password cannot be restored. In that case, you will need to initialize the administrator account. ● To initialize the administrator account, type **"1234567890init"** in the password field.
Where can I get SuperSign Player programs or their driver files?	● You can find **SuperSign\SuperSign_Software\Application\SuperSign Player** or **SuperSign\SuperSign_Software\System\SuperSign Driver** on the CD included with the NC1000/ NC2000.
A message reading "**as the web server is not operational, the program will be terminated**" appeared.	● This means the web server was not properly installed when SuperSign Manager was set up. Even if another web server is available, SuperSign Manager may not work properly. If you have another web server already in use, delete it, or check whether the 6080 port is being used.

SuperSign Network Connecting Instructions

Connect Network via LAN

This is used when SuperSign Manager and SuperSign Player are on the same network.

- The same network means that they use the same gateway and subnet address in the IP communication settings.
- The SuperSign Manager's search feature can be used to find SuperSign Players on the same network.
- For a single connection, use a crossover cable so that communication is possible without the use of network devices.
- Web pages, widgets, and RSS are not available on a closed network not connected to the Internet.
- With no DHCP server on the network, you need to select the IP addresses of SuperSign Manager and SuperSign Player manually.

Single Connection

Multiple Connections

Connect Network via Internet

Use this method when the manager and player are not on the same network.

- SuperSign Manager cannot search for different SuperSign Players that do not share the same network.
- SuperSign Player can be connected to SuperSign Manager on a different network through the Manual discovery mode.
- If SuperSign Manager is on a private network, the SuperSign Player will not be correctly connected.
- If the network is equipped with a firewall, the transfer function may not work properly.
- Web pages, widgets, and RSS are not available on a closed network not connected to the Internet.
- With no DHCP server on the network, you need to select the IP addresses of SuperSign Manager and SuperSign Player manually.

Private Network Connection

Internet Connection

Wireless Network Connection

This is used when SuperSign Manager and SuperSign Player are connected via a wireless router.

- SuperSign Manager and SuperSign Player support both wired and wireless network connectivity.
- When both wired and wireless network types are used at the same time, SuperSign Player may not work properly.
- Unplug the LAN cable if you want to connect the player to SuperSign Manager wirelessly.
  Do not use wireless network devices when you connect to SuperSign Manager with the wired network.
- Check whether SuperSign Manager and SuperSign Player are on the same network when you use a wired or wireless router. If they use different networks, the player search will not be available. If SuperSign Manager is located behind the router or the firewall, the connection may not work properly.

Wired/Wireless Router

Wired/Wireless Complex Network

Monitor Models Supported by SuperSign

※ For NC1000, NC2000, supported displays are subject to change without notice for improvement of performance.

The range of features controlled by SuperSign Manager may vary depending on the monitors used with it. The list below includes monitors that can be controlled by SuperSign Manager. Models not controlled by SuperSign Manager are marked with an X.

Monitor Model		M3203C	M3703C	M4213C	M4210L	M4224C	M4224F
Compatibilty	NC1000	O	O	O	O	O	O
	NC2000	X	X	X	X	X	X
Function	Power	O	O	O	O	O	O
	Input Select	O	O	O	O	O	O
	Aspect Ratio	O	O	O	O	O	O
	Screen Mute	O	O	O	O	O	O
	Volume Mute	O	O	O	O	O	O
	Volume Control	O	O	O	O	O	O
	Remote Lock/ key Lock	O	O	O	O	O	O
	Auto configuration	O	O	O	O	O	O
	Tile Mode	O	O	O	O	O	O
	Tile ID Set	O	O	O	O	O	O
	Natural Mode (In Tilemode)	O	O	O	O	O	O
	Picture mode(PSM)	O	O	O	O	O	O
	Sound mode	O	O	O	O	O	O
	Fan Fault check	O	O	O	O	O	O
	Temperature value	O	O	O	O	O	O
	Lamp fault check	O	O	O	O	O	O
	Time	O	O	O	X	O	O
	Sleep Time	O	O	O	O	O	O
	Auto Sleep	O	O	O	O	O	O
	Power On Delay	O	O	O	O	O	O
	DPM Select	O	O	O	O	O	O
	Power Saving	O	O	O	O	O	O
	Power Indicator	O	O	O	O	O	O

Monitor Models Supported by SuperSign

※ For NC1000, NC2000, supported displays are subject to change without notice for improvement of performance.

Monitor Model		M4715C	M5203C	M6503C	M3204C	M4214C	M4716C
Compatibilty	NC1000	O	O	O	O	O	O
	NC2000	X	X	X	O	O	O
Function	Power	O	O	O	O	O	O
	Input Select	O	O	O	O	O	O
	Aspect Ratio	O	O	O	O	O	O
	Screen Mute	O	O	O	O	O	O
	Volume Mute	O	O	O	O	O	O
	Volume Control	O	O	O	O	O	O
	Remote Lock/ key Lock	O	O	O	O	O	O
	Auto configuration	O	O	O	O	O	O
	Tile Mode	O	O	O	O	O	O
	Tile ID Set	O	O	O	O	O	O
	Natural Mode (In Tilemode)	O	O	O	O	O	O
	Picture mode(PSM)	O	O	O	O	O	O
	Sound mode	O	O	O	O	O	O
	Fan Fault check	O	O	O	O	O	O
	Temperature value	O	O	O	O	O	O
	Lamp fault check	O	O	O	O	O	O
	Time	O	O	O	O	O	O
	Sleep Time	O	O	O	O	O	O
	Auto Sleep	O	O	O	O	O	O
	Power On Delay	O	O	O	O	O	O
	DPM Select	O	O	O	O	O	O
	Power Saving	O	O	O	O	O	O
	Power Indicator	O	O	O	O	O	O

SuperSign Manager Menu List

File Menu

Main menu	Sub menu	Option	Menu Enabled			Description
			Contents Edit	Plan	Management	
File	Write a new canvas		●			Write a new canvas
	Open		●			Open exisiting contents file
	Close		●			Close currently editing canvas
	Save		●	●		Save currently editing contents
	Save as		●			Save contents to new name
	Save for Template		●			Save contents as a template
	Export contents		●			Export currently editing contents to the file
	Send to player		●	●		Send currently editing contents to the player
	Log out		●	●	●	User log out
	Password Change		●	●	●	Change user password
	Exit		●	●	●	Exit the program

Edit Menu

Main menu	Sub menu	Option	Menu Enabled			Description
			Contents Edit	Plan	Management	
Edit	Cut		●	●		Cut
	Copy		●	●		Copy
	Paste		●			Paste
	Delete		●	●		Delete
	Move to Contents Edit window			●		Move to Contents Editing window
	Move to Plan window		●			Move to Plan window
	Add group				●	Create a new group
	Release group				●	Remove selected group

View Menu

Main menu	Sub menu	Option	Menu Enabled			Description
			Contents Edit	Plan	Management	
View	Zoom	150%	●		●	150% (Zoom in)
		120%	●		●	120% (Zoom in)
		100%	●		●	100% (Original)
		80%	●		●	80% (Zoom out)
		60%	●		●	60% (Zoom out)
		50%	●		●	50% (Zoom out)
		30%	●		●	30% (Zoom out)
	Preview		●			Preview currently editing contents
	Show Wizard		●	●	●	Show Start Wizard when startup the program or write a new canvas
	Hide Wizard		●	●	●	Do not show Start Wizard when startup the program or write a new canvas
	Contents Edit Window	Timeline	●			Show/Hide Timeline
		Player Template Library	●			Show/Hide player/Template/Library
		Property Tool	●			Show/Hide Property/Tool
	Plan Window	Player Library		●		Show/Hide player/Library
		Property TimeSetting		●		Show/Hide Property TimeSetting/Library
	Management Window	Library			●	Show/Hide Library
		Information Control			●	Show/Hide Information/Control

Option Menu

Main menu	Sub menu	Option	Menu Enabled			Description
			Contents Edit	Plan	Management	
Option	Start search		●	●	●	Start Player Scanning
	Contents Edit		●	●	●	Set options related to Contents Edit mode
	Management		●	●	●	Set the E-mail of the administrator to send the Logreport
	Distribution		●	●	●	Set contents distribution time schedule

Setting Menu

Main menu	Sub menu	Option	Menu Enabled			Description
			Contents Edit	Plan	Management	
Setting	Server		●	●	●	Show server information
	Reset		●	●	●	Initialize the SuperSign Manager settings

Help Menu

Main menu	Sub menu	Option	Menu Enabled			Description
			Contents Edit	Plan	Management	
Help	Manual		●	●	●	Show SuperSign manual
	Technical Support		●	●	●	Show LG Electronics technical support information
	About		●	●	●	Show SuperSign Manager software information

Required Software and Codec Package Installation

Required Software

You should install all software below in order to take advantage of all **Edit** functions in the SuperSign solution.

Microsoft Office

To create content with Microsoft Office Word, PowerPoint, and Excel documents, both SuperSign Manager and SuperSign Player should have the same version of MS Office installed (e.g. 2000, XP, 2003, or 2007).

Attention

- You should purchase and install Microsoft Office.

Adobe Acrobat Reader (8.1 or later)

To see **Help** and to use PDF files as media, Adobe Acrobat Reader version 8.1 or later (excluding the Lite version) is required. Adobe Acrobat Reader should be installed on both SuperSign Manager and SuperSign Player.

Note

- You can download Adobe Acrobat Reader from the installation CD, or from the Adobe website at www.adobe.com for free.

Codec Package Installation

You need to install codecs if you want to upload or play videos.
If SuperSign Manager and SuperSign Player have different codecs installed, the player may not be able to play content. Use the same type and same version of codecs on SuperSign Manager and SuperSign Player.

You may need different codecs depending on the video files.

You can download codec packages from the links below.
- http://www.codecguide.com
- http://shark007.net
- http://www.free-codecs.com

Attention
- Please check the site's instructions concerning the codec license details.

Note
- LG Electronics takes no responsibility for managing the above sites. Each site's content may change without prior notice.

Attention
- Check if the package you downloaded has the required codec and install it.
- Install the same codec package in SuperSign Manager and SuperSign Player.
- Do not re-install the package if it is already installed.
- If you want to install another codec package, make sure that the one previously installed has been removed.

Files Supported by SuperSign

Supported Video File Formats: .avi, .wmv, .mp4, .mov, .mkv, .ts, .tp, .mpg, .mpeg, .flv

Attention
- To register and play videos, the SuperSign Manager and SuperSign Player should have the required codec pack.

Supported Image File Formats: .jpg, .bmp, .png.

Attention
- The maximum image size is 8,192 pixels (width or height). The total number of pixels should not exceed 16,777,216.

Supported Audio File Formats: .mp3, .wma, .wav

Supported Flash File Formats: .swf

Supported Document File Formats: .ppt, .xls, .doc, .pdf

Limitations of Microsoft Windows Embedded Standard

The following are potential errors that may occur due to internal limitations of Microsoft Windows Embedded Standard, which is the OS of SuperSign Player.

- If you press **Alt + Enter** on the DOS window, text other than English may be shown corrupted.
- If you use **Save As** function in the **Print** window, the menu window name will be displayed in English.
- When you move to sub-menu items such as Control Panel, some of the items, such as hyper terminal, country and language setting, will be written in English.

Swapping Displays

You can change the primary and secondary monitors in the **Control Panel > Nvidia Control Panel**.

Attention

- Nvidia Graphic Chipset which is the graphic card equipped in SuperSign Player (NC1000/NC2000) does not support display swap in the Windows Display Registry Information.

SMTP E-mail Settings

Follow the steps below to set the SMTP e-mail. Log reports can be sent to the e-mail address you designate.

1 Select File menu **Options > Management** to use the e-mail setting menu.

2 The **Options** window will appear.

3 Type an e-mail address in the **Administrator E-mail** field to receive the report. Type the e-mail server address in the **SMTP Server** field.

4 If the SMTP server requires user identification, provide the user ID and password and then click **OK**. (Encryption such as SPA and SSL are not supported.)

5 When you have filled in the required fields, click **Test E-mail**.

6 Check whether the test e-mail has arrived at the designated address.

Make sure to read the Important Precautions before using the product.
Keep the User's Guide(CD) in an accessible place for furture reference.
The model and serial number of the SET is located on the back and one side of the SET. Record it below should you ever need service.

MODEL _____

SERIAL _____

WARNING - This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Temporary noise is normal when powering ON or OFF this device.