

OWNER'S MANUAL

Ipsolute VMS Lite

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

MODELS

LVC110



MFL67280203

 **Ipsolute**

1111 (V1.0)

Contents

1

Introduction

3	Features
4	Recommended PC Requirements
4	Before install the Ipsolute VMS Lite program

2

Getting Started

5	Install the Ipsolute VMS Lite on your PC
5	Starting the Ipsolute VMS Lite
6	Ipsolute VMS Lite Overview
7	Menu Bar
8	Tool Bar
9	Function windows
9	Status bar
9	Pop-up menu
10	Live window icons

3

Operation and settings

11	Register the device
11	Add the device using search function
11	Add the device manually
11	Edit the device
12	Remove the device
12	Create a device group

12	Create a new group folder
12	Delete a group folder
12	Edit a group folder
13	Add the device to the group folder
13	Connect the device
13	Connect the group device
13	Disconnect the device
14	Station Setup
14	Recording Setting
16	Schedule Setting
18	System Setting
20	Recording and Playback
20	Manual recording
20	Motion recording
20	Schedule recording
21	Search and Playback
22	Export
23	Export Setting
24	LG Smart Player
25	Using the IP Utility
25	Starting the IP Utility
25	IP Utility Overview

4

Reference

27	Troubleshooting
33	Open source software notice

1

Introduction

The LG Ipsolute VMS Lite is an IP-Surveillance software that works with the LG Video Server and LG IP cameras to provide video monitoring, recording setting and event management functions. The software has multiple search functions for recorded events. Remote viewing and playback are also possible with the use of the Ipsolute VMS Lite.

This manual contains instructions on how to use and manage the LG Ipsolute VMS Lite in your networking environment. Some knowledge of networking environments would be beneficial to the reader.

Should you require any technical assistance, please contact authorized service center.

Features

The LG Ipsolute VMS Lite offers the following functions:

- Video recording with NAS system and Local HDD drive.
- Device Finder
- Digital Zoom
- Motion detection Function
- 4 channels live view
- Multiple playback at the same time
- 2way audio support
- AVI File Export
- Various Layout and Intuitive User-Friendly GUI

Recommended PC Requirements

The LG Ipsolute VMS Lite must be installed below operating systems for best performance and stability.

Items	Minimum Specification	Recommend Specification
Operating System	Windows XP professional	Windows XP professional, Vista Business or Windows 7 professional or higher
CPU	Intel Core2 Duo E7200 2.53 GHz	Quad-Core Intel® Xeon® Processor 5400 series 2.33GHz or higher
Web Browser	Microsoft Internet Explorer 6.0	Microsoft Internet Explorer 6.0 or above
DirectX	DirectX 9.0 C	DirectX 9.0 C or above
Memory	2 GB	4GB RAM
Graphics Card	256 MB Video RAM (Supported DirectX 9.0 C)	1024 MB or above Video RAM (Supported DirectX 9.0 C)
Resolution	1280 x 1024 (with 32 bit Color)	1280 x 1024(with 32 bit Color) or above
Network	100 Megabit Network	Gigabit Network

Before install the Ipsolute VMS Lite program

- The description pictures may differ from your OS (Operating System) or Web Browser type. The pictures used in this manual are based on Windows XP Professional.
- Do not use other applications with this Ipsolute VMS Lite program. This can cause memory shortage and program malfunction.
- Check that the LG IP Device is(are) connected to the network and that power is supplied.
- For more information on product installation, see the user manual of your LG IP device.

2

Getting Started

Install the Ipsolute VMS Lite on your PC

You can install the Ipsolute VMS Lite software following steps.

1. Insert the Client Program CD which will be started automatically.
If the disc does not run automatically on your PC, open the Client Program CD and install the program manually.
2. Run the install file and install the programs to your computer following the on-screen instructions.
3. After finishing installation, you will find the programs in the start menu or on the desktop.

Starting the Ipsolute VMS Lite

Run the Ipsolute VMS Lite program. To launch Ipsolute VMS Lite , select **LG Ipsolute VMS Lite** from your **Start > Programs > LG Ipsolute > LiteVMS > LG Ipsolute VMS Lite** or click the **LG Ipsolute VMS Lite** icon on your desktop. The **LG Ipsolute VMS Lite** window is displayed.

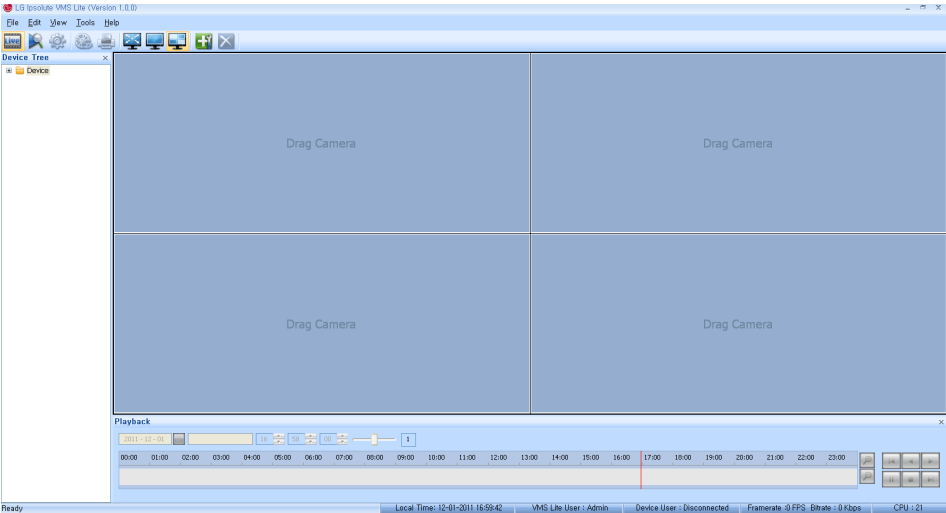
Ipsolute VMS Lite Overview

Device Tree window

Menu Bar

Tool Icon Bar

Live window



Status Display bar

Menu Bar

File Edit View Tools Help

Menu	Sub-Menu	Description
File	Print	You can print the current live image of the selected channel.
	JPEG Saving	You can capture and save the current image of the selected channel to JPEG file format. The save folder is "Root Drive\LG Exported Files\JPEG". 1. Select the channel. 2. Select File > JPEG Saving option. JPEG Saving window is displayed. 3. Specify a location and filename, and click [Save].
	Connect All	Connect all devices of the current screen division mode.
	Disconnect All	Disconnect all devices of the current screen division mode.
	Exit	Exit the Ipsolute VMS Lite
Edit	Delete Channel	Delete the selected channel.
	Delete Channel All	Delete the all channels of the current screen division mode.
View	Toolbar / Status / Tree / Playback	Displays or disapper the selected function window.
	OSD	Displays or disapper the OSD in the selected channel window.
	Language	Select the language for Ipsolute VMS Lite.
Tools	Add/Edit/Remove Device	Add, edit or remove devices in Ipsolute VMS Lite.
	Station Setup	Set the Recording and System options for the Ipsolute VMS Lite.
Help	About Ipsolute VMS Lite	Displays the Ipsolute VMS Lite Information.

Tool Bar



 Live	Displays the live view workspace. You can see the surveillance camera's images in the window(s). You can also control the PTZ camera, playback the data or view the system and event log list.
 Search	Displays the search workspace. You can search and play the recorded data using the Date/Time or Event search functions.
 Device Setup	You can set the configuration of the selected device in the Device Tree window via the network.
 Export to AVI	Displays the Export pop-up windows.
 Print	You can print the current live and playback image of the selected channel.
 Full Screen	You can view the live window in full screen mode. To return to the normal screen, press the [ESC] button on the keyboard.
 Division	When the icon is clicked, the screen will be changed to split mode and if the icon is clicked again, the screen will be changed by sequence (except 4 split mode). Choose the screen division mode.
 Add/Edit/Remove Device	Displays the Add/Edit/Remove Device pop-up windows. Add, edit or remove device in Ipsolute VMS Lite.
 Delete Channel	Delete the selected channel.

Function windows

Device Tree window

Displays the registered device name and group folder name.

To show or hide a structure level, click the plus (+) or minus (-) signs at the left of the corresponding structure.

Playback Control window

You can playback the recorded data of the selected channel.

Status bar

Local Time: 12-01-2011 16:59:42	VMS Lite User : Admin	Device User : Disconnected	Framerate : 0 FPS Bitrate : 0 Kbps	CPU : 21
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- Local Time: Displays the Local Time.
- VMS Lite User: Displays user level to the Ipsolute VMS Lite.
- Device User: Displays the connected user to the selected device.
- Framerate/Bitrate: Displays the Frame rate and Bit rate per second of the selected device.
- CPU: Displays the present CPU usage of the client PC.

Pop-up menu

Connection
Disconnection
Manual Record
Play
Stop
Relay
Audio Out
Delete Channel

- Connection: Select to connect the device.
- Disconnection: Select to disconnect the device.
- Manual Record: Select to record manually.
- Play: Select to play the recording data.
- Stop: Select to stop the playback.
- Relay: Select to run the relay of the device.
- Audio Out: Select to activate the two-way audio.
- Delete Channel: Select to delete the registered device.

Live window icons



Icons	Description
	Displays when the audio input function is available in the network device.
	Displays when the audio function is activated in the network device.
	Indicates sensor recording.
	Indicates motion detection recording (Yellow icon).
	Indicates Continuous recording.
	Indicates instant recording.

3

Operation and settings

Register the device

The first time Ipsolute VMS Lite is started, you should register a LG IP device to control it by the Ipsolute VMS Lite.

Note:

The computer running Ipsolute VMS Lite must be on the same network with device.

Add the device using search function

1. Select **Tools > Add/Edit/Remove Device** option on the menu bar.
2. Click the [Search] button. After a few seconds the found device is(are) displayed.
3. Select the device name in the Device list. If you want to register the all devices, check the [Select All] option.
4. Click the [Add] button. The Add Device window is displayed.
5. Specify the Device Name, Video Stream, Protocol, User ID, Password and click the [OK] button.
6. Click the [OK] button repeatedly to exit the window.
The registered device name is displayed in the Device Tree windows.

Add the device manually

1. Select **Tools > Add/Edit/Remove Device** option on the menu bar.
2. Click the [Add] button. The Add device window is displayed.
3. Specify the device Name, Video Stream, Protocol, User ID, Password and click the [OK] button.
4. Click the [OK] button to exit the window.
The registered device name is displayed in the Device Tree windows.

Edit the device

1. Select **Tools > Add/Edit/Remove Device** option on the menu bar.
2. Select the device name on the device list.
3. Click the [Edit] button. The Edit Device window is displayed.
4. Specify the Device Name, Video Stream, Protocol, User ID, Password and click the [OK] button.
5. Click the [OK] button to exit the window.

Remove the device

1. Select **Tools > Add/Edit Device** option on the menu bar.
2. Select the device name on the device list.
3. Click the [Remove] button. The selected device is removed.
4. Click the [OK] button to exit the window.

Create a device group

You can make the device group to manage it.

Create a new group folder

To create a group under the Device top-level folder, do the following on the Device Tree section:

1. Click the right mouse button on the Device or group folder.
2. Select the [Add Group] option. The dialog window is displayed.
3. Overwrite the default name "New Group" with a group name of your choice.
4. Click the [OK] button to confirm it.
The new group folder is created under the folder you selected.

Delete a group folder

1. Select the required group folder and click the right mouse button.
2. Select the [Delete Group] option.

Notes:

- It is impossible to delete the Device top-level folder.
- Deleting a group folder will delete all subgroup folders within the group folder as well. If you delete the group folder, the device in the group folder will be moved to the upper group folder automatically.

Edit a group folder

1. Select the required group folder and click the right mouse button.
2. Select the [Edit Group] option. The dialog window is displayed.
3. Overwrite the existing group name with a new name of your want.
4. Click the [OK] button to confirm it.

Note:

You cannot edit the Device top-level folder.

Add the device to the group folder

1. Select the required device name that you want to group.
2. Click the device name then drag and drop to the group folder.
3. Repeat steps 1 to 2 to group the other devices.

Connect the device

1. Select the required device name.
2. Drag and drop the device name to the required position in the live window.
The device is connected automatically and the Live image is displayed in the selected window.
3. Repeat step 1 to 2 to connect the other devices.

Connect the group device

1. Select the required device group folder.
2. Drag and drop the device group folder to the required position in the live window.
Each device is connected automatically and the Live image is displayed in each windows.
3. Repeat step 1 to 2 to connect the other devices.

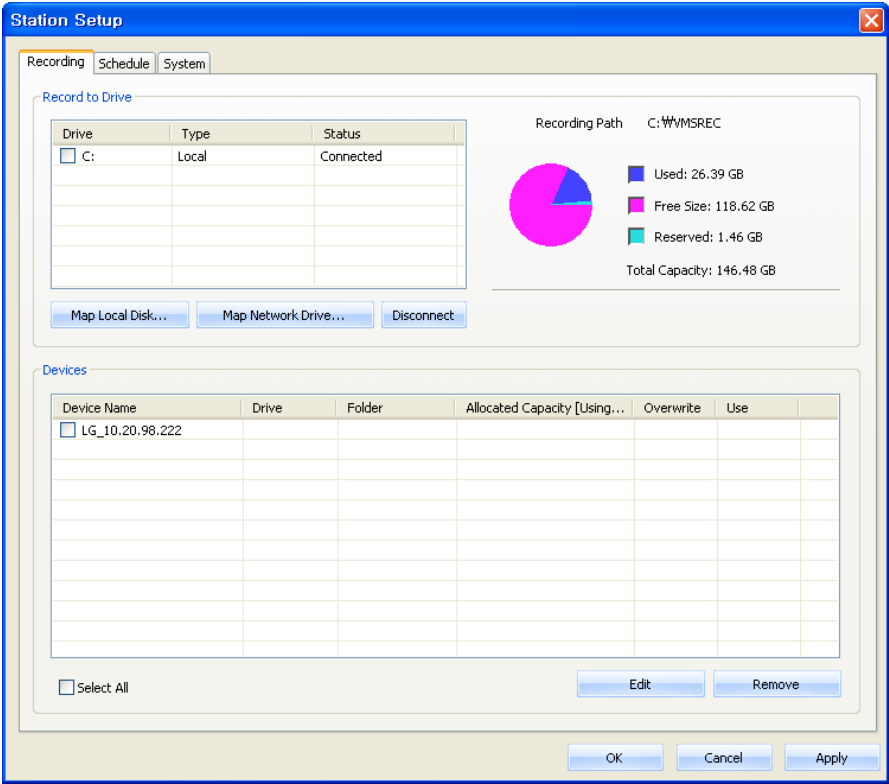
Disconnect the device

1. Select the device channel.
2. Click the right mouse button on the live window. Select [Disconnection] option.
The device of the selected channel is disconnected. If you want to connect again, click the right mouse button and select [Connection] option.
3. Repeat step 1 to 2 to connect the other devices.

Station Setup

Recording Setting

Select **Tools > Station Setup** option on the menu bar. The Station setup window is displayed. Click the [Recording] tab to display the recording setting option.



Add the recording drive

1. Click the [Map Local Disk..] or [Map Network Drive...] button.
2. Set the detail options.
 - [Map Local Disk..] options.
 - Local Disk: Selects the local HDD drive of your PC.
 - Directory: Enter the folder name to save the recorded data files.
 - [Map Network Drive...] options.
 - Drive: Selects the network drive name.

- Folder: Enter the network drive address with folder name.
 - User ID: Type the user ID for the folder access in the Network drive.
 - Password: Type the password for the folder access in the Network drive.
3. Click the [Connect] button.
 4. Click the [Apply] button to confirm the settings.

Recording and playback device setting

1. Select the device name on the device list.
2. Click the [Edit] button. The Recording Server Setting window is displayed.
3. Set the options.
 - Enable: Check to enable the Storage device recording.
 - Overwrite: Select when allow the overwrite recording. This function is possible when the selected Storage device has fully recorded.
 - Device Recording (Option): Check to enable the record from the network device to the NAS recording server. It is not available to record with local HDD drive.
 - Drive: Select the Storage device drive.
 - Address, Folder: Displays the selected Storage device system option value.
 - Capacity: You can set the limit data capacity of the folder to record the data.
 - Recorded size: Displays the pre-recorded data size in the folder.
4. Click the [OK] button.
5. Click the [Apply] button to confirm the settings.

Notes:

- If you select NAS as Storage device, the Storage device supports up to 16 device connection for each recording and playback with the CIF resolution and 30 frame rate of the all camera.
- A local HDD drive supports up to 15 device connection for each recording and playback with D1 resolution and 30 frame rate of the all camera.
- The [Reserved] option, which is displayed on the right of the pie chart, means the reserved capacity (about 1% capacity of the total capacity of the HDD) that is not available to record.

Schedule Setting

Select **Tools > Station Setup** option on the menu bar. The Station setup window is displayed. Click the [Schedule] tab to display the schedule setting option.

The screenshot shows the 'Station Setup' window with the 'Schedule' tab selected. The window has three tabs: 'Recording', 'Schedule', and 'System'. The 'Schedule' tab is active, showing a 'Schedule List' table with columns 'Schedule Alias' and 'Repeat type'. Below the table is a checkbox 'Allocate to all device' and buttons 'Allocate', 'Add', 'Edit', and 'Delete'. The 'Allocation List' section shows a 'Device Name' dropdown set to 'LG_10.20.98.222' and another 'Schedule List' table with the same columns. At the bottom right of the 'Allocation List' section are 'Detail' and 'Delete' buttons. At the very bottom of the window are 'OK', 'Cancel', and 'Apply' buttons.

Schedule Alias	Repeat type

☐ Allocate to all device [Allocate] [Add] [Edit] [Delete]

Allocation List

Device Name: LG_10.20.98.222

Schedule Alias	Repeat type

[Detail] [Delete]

[OK] [Cancel] [Apply]

To set the Recording Schedule

1. Click the [Add] button. Recording schedule setting window is displayed.
2. Enter the schedule alias.
3. Select the repeat type and set the detail options. It can be configured in 5 different ways, Repeat None, Daily, Weekly, Monthly and Yearly.
 - Custom day: If the [Repeat type] option set to [Monthly] or [Yearly], this option is displayed.
 - Schedule duration: If the [Repeat type] option set to [Repeat none], [Monthly] or [Yearly], this option is displayed.

4. Select the record mode and set the recording schedule time on the time table by using drag. The record mode differ from the model. The Ipsolute VMS Lite is displayed the record mode automatically as the connected network device.
 - None: No scheduled recording
 - Continuity: Recording starts automatically from the pre-setting time.
 - Motion: Recording starts automatically when motion is detected within a designated time.
 - Sensor: Recording starts automatically when the sensor input is activated within a designated time.
 - C+S: Recording starts automatically from the preset time. When the input is activated within a designated time, change the continuous recording mode to the sensor event recording mode and recording starts automatically.
 - C+M: Recording starts automatically from the preset time. When the motion is detected within a designated time, change the continuous recording mode to motion event recording mode and recording starts automatically.
 - M+S: Recording starts automatically when the sensor alarm signal has input or motion has been detected.
 - C+M+S: Recording starts automatically from the preset time. When Motion or Sensor event is detected, change the continuous recording mode to the motion event recording mode or the sensor event recording mode.
5. Click the [Save] button to confirm the settings.

To edit the Recording Schedule

1. Choose the schedule in the Schedule list.
2. Click the [Edit] button.
You can check or change the recording schedule options except for repeat type.

To activate the Recording Schedule

1. Select the device from the drop-down list of the [Device Name] option.
2. Choose the schedule in the schedule list and then click the [Allocate to Device] button.

To deactivate the Recording Schedule

1. Choose the schedule in the Device list.
2. Click the [Delete] button in the Device list.

To delete the Recording Schedule

1. Choose the schedule in the Schedule list.
2. Click the [Delete] button in the Schedule list.

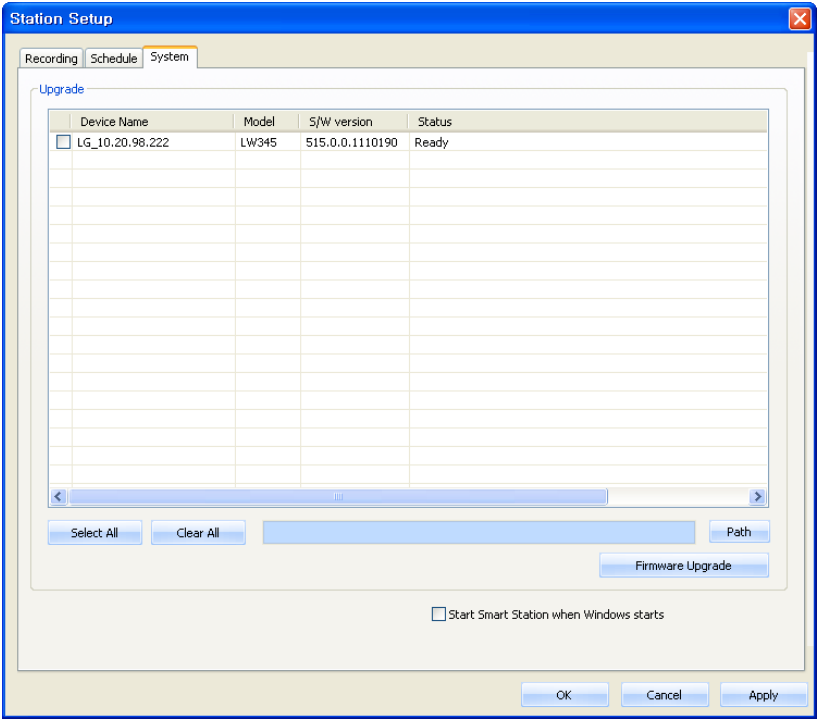
Note:

- If you select the "Allocate all device" option, the connected network devices will be set to the same schedule.
- After completing the settings on this page, click [Apply] button to confirm the settings.

- If the camera is used H.264 codec for the Motion, Sensor, VA recording setting, the Maximum frame rate should be set over the GOP size. If the Maximum frame rate value is low than the GOP size, the recording is not processed in spite of the event is occurred.

System Setting

Select **Tools > Station Setup** option on the menu bar. The Station setup window is displayed. Click the [System] tab to display the system setting option. You can set the options for the Ipsolute VMS Lite.



Firmware upgrade setting

1. Select the model on the Camera on Server list.
If you want to upgrade the all devices, check the [Select All] option.
2. Click the [Path] button.
2. Find and open the firmware file.
3. Click the [Firmware Upgrade] button to update the firmware.

Note:

This "Upgrade" is multi upgrade in system setting page. Therefore it needs more time than single upgrade in Device setup maintenance. So upgrade time has relation to number of camera or VMS Lite status. But this operation is useful for management of

many devices.

Start Ipsolute VMS Lite when Windows starts

Select the check box to activate this function. If you set to activate, the Ipsolute VMS Lite starts automatically when the computer starts.

Recording and Playback

Before you start recording, first check the recording settings in the Station setup menu. If there is no recording drive, set the Recording Storage device.

Manual recording

1. In the Live mode, select the live channel you want to record.
2. Click the right mouse button on the live window channel and then the sub menu is displayed.
3. Select the [Manual Record] option.
4. The REC text is displayed on the selected channel and recording is started.
5. Click the right mouse button on the live window channel and then select the [Manual Record] option again to stop the recording.

Motion recording

For the Motion Recording, you must set the schedule in the device setup and set the Motion detection Window in the device setup menu.

1. In the Live mode, select the live channel you want to record.
2. Set the Recording Storage Device for each device on Recording setting of Station Setup.
3. Set the motion detection window in the Video & Audio setting menu of the device setup menu.

Schedule recording

1. Set recording schedule on Schedule page.
2. Set the Recording Storage Device for each device on Recording setting of Station Setup.
3. The Recording will be start automatically as schedule.

Sensor recording

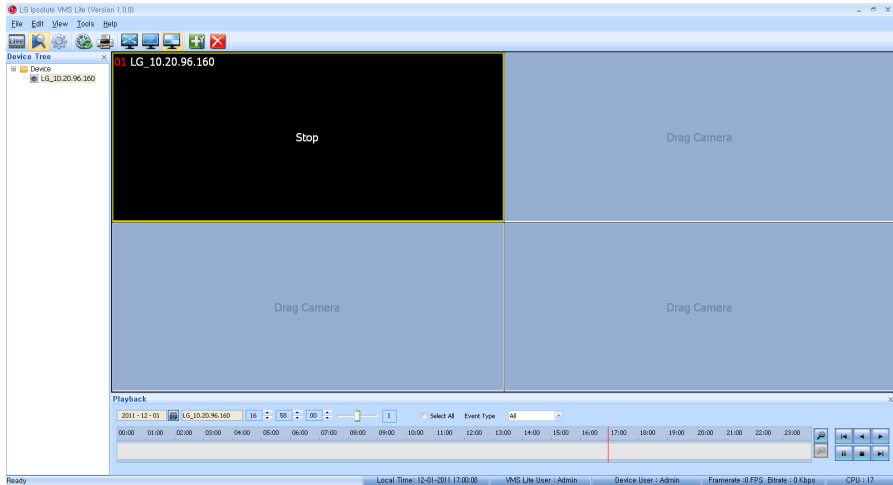
For the Sensor Recording, you must set the schedule in the device setup and set the sensor in the device setup menu.

1. In the Live mode, select the live channel you want to record.
2. Set the Recording Storage Device for each device on Recording setting of Station Setup.
3. Set the sensor recording options of the camera setup menu.

Search and Playback

You can search and play back the recorded data of a selected IP device. Use to search recorded data by specifying date and time.

To start playback, you must connect the recording Storage Device. Check the recording Storage Device condition in the Station setup menu.



1. Select the  (Search) icon.
2. Select the channel window you want to view. Mark up the [Select All] option when you want to view from all playback channel windows.
3. Click the date icon and select the date. The day is displayed in a blue text when recorded data exists.
4. Select playback start time using the time-line and time input column. When using time-line to search a start time, use the zoom in/out icons for more detailed searches (4 step).
5. Select the playback speed.
6. Start playback using the playback control buttons.

Note:

When you play back the recorded data, the data could be intermittent according to the PC or Network condition.

Export

You can export the recorded data to AVI file from the recording Storage Device to the PC. This function is permitted for Administrator and Power user.

Export

Export Setting

Device Name: LG_10.20.98.222

Storage device date / Recording files:

< 11 . 2011 >

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Recording Data File List

17:00 17:05 17:10 17:15 17:20 17:25 17:30 17:35 17:40 17:45 17:50 17:55

Exported Date:

Start Time: End Time:

Store in: C:\WLG Exported Files\WAVI ...

Progress:

Export

Cancel

Clear

Close

Export Setting

- Device Name: Displays the selected IP device name.
- Storage device date/Recording files: Displays the recorded day with the blue color, recording data file and time-line.
- Exported Date: Displays the selected date.
- Start Time: Set the start time to copy.
- End Time: Set the end time to copy.
- Store in: Displays the current exported data save folder. You can select (or make) the folder on the computer to save the exported data. The initial save folder is "Root Drive:\LG Exported Files\AVI". If you want to change the exported data save folder, click the [...] icon of the [Store in] option and select the new folder.
- Progress: Views the export data condition while the export is in progress.
- Export: Click to start export the data of the selected export setting.
- Cancel: Click it to cancel data exporting.
- Clear: Delete the selected export setting schedule from the list.
- Close: Click to exit the window.

How to export the data

1. In the Live mode, select the live channel.
2. Select the Export icon.
3. Select the date and recording data file.
4. Select playback start time using the time-line and time input column.
5. Select the folder on the computer to save the exported data.
8. Click the [Export] button to begin the export. The export status will be displayed on the progress option.

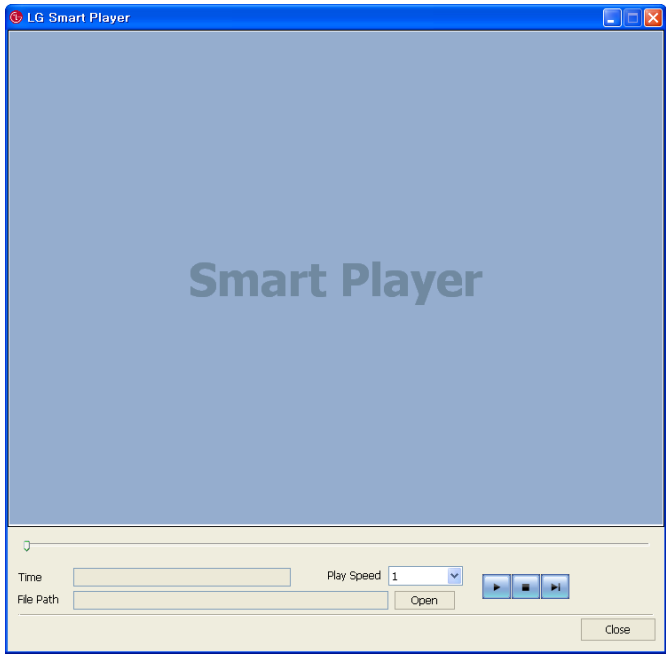
Note:

- The exported data file name is made automatically as the [IP device name_export date_export start time.avi] type.
- If you set the time for data that does not exist, the export function is not activated.
- The warning message appears for the conditions listed below.
 - When the start date/time and end date/time are the same.
 - When the start date/time is later than the end date/time.

LG Smart Player

You can playback from the recording data in the Storage device or in the FTP server.

1. Run the LG Smart Player program.



2. Click the [Open] button. The open window is displayed.
3. Find and open the DAT file.
4. Select the play speed from the drop-down list.
5. Use the control buttons to play the file.

	Starts playback.
	Stops playback.
	Frame-by-frame playback.

Notes:

- You can search the image directly using the slide bar in stop mode. Click the slide bar and move to the other point you want and then release it. Or, Click the point on the slide bar you want to playback.
 - The slide search is available when the DAT file and INFO file exist in the same folder.
6. Click the [Close] button to exit the window.

Using the IP Utility

The IP Utility can automatically discover and display LG IP devices on your network. The IP Utility shows the MAC address, IP address, Model name and so on.

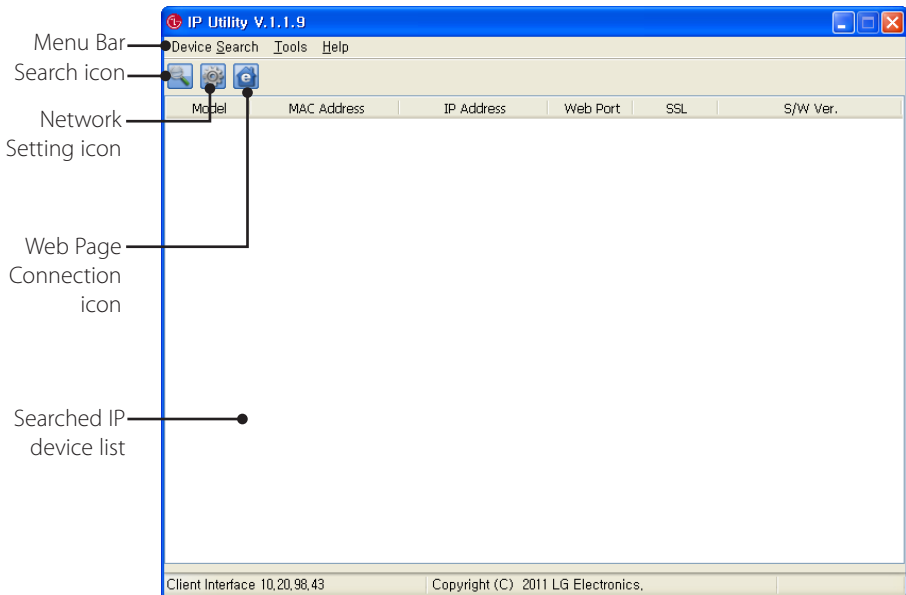
Note:

The computer running the IP Utility must be on the same network segment (physical subnet) as the LG IP device.

Starting the IP Utility

1. Insert the Client Program CD.
2. Find and Copy IP utility folder to your PC.
3. Run the IP Utility program.

IP Utility Overview



Menu	Sub-Menu	Description
Device Search	Search	Click to discover the LG IP device. After a few seconds the found LG IP device is(are) displayed in the Device List.
	Exit	Exit the program.
Tools	Connect Web Page	1. Select the LG IP device in the Device List. 2. Select the [Connect Web Page] option in the Tools menu. When accessing the selected LG IP device, the login window will be displayed on the screen. 3. Enter the user name and password. (Note that the default administrator user ID and password are "admin".) 4. Click the [OK] button and then the LG Smart Web Viewer is displayed in your browser. Note: You can also access the LG Smart Web Viewer as double-click the IP device in the Device list.
	Network Setting	1. Select the LG IP device in the Device List. 2. Select the [Network Setting] option in the Tools menu. The login window will be displayed. 3. Enter the administrator user name and password. 4. Click the [OK] button and then the Device Network Settings window is displayed. 5. Set the options and click the [Apply] button to confirm your settings.
	IP Setting by ARP_PING	1. Select the LG IP device in the Device List. 2. Select the [IP Setting by ARP_PING] option in the Tools menu. The login window will be displayed. 3. Enter the administrator user name and password. 4. Click the [OK] button and then the IP Setting by Serial number window is displayed. 5. Enter the IP address and click the [Apply] button to change the IP address. Note: You can also access the tools menu. Click the right mouse button on the IP device in the Device list.
Help	About IP Utility	Displays the IP Utility Information.

4

Reference

Troubleshooting

Symptoms	Resolutions
The Ipsolute VMS Lite does not activate properly	• Check your PC system. Please use the recommended PC system with Ipsolute VMS Lite program. • Do not use other applications with this Ipsolute VMS Lite program. • Use the graphics card in your computer with the latest driver.
Repeat error message "Unable to connect to device"	Reduce the CPU usage and Network bandwidth using the device setting for each device. Reduce the resolution, increase the compression setting and lower the frame rate.
Connection refused, server is not accepting any connections. Connection succeeded but unable to the video	Check that internet and security firewall are not blocking a connection to the device.
There is no audio in the live view	If audio was not enable in audio settings of the device there will not be audio in the live view. Follow these steps to troubleshoot audio. 1. Select a channel 2. Click the Device setup button 3. Click the Audio&Video 4. Enable the Audio In 5. Go to the live view and reconnect to device with enabled audio. Note: If there is a noise, Reduce the CPU usage and Network bandwidth using the device setting for each device.

Symptoms	Resolutions
The Ipsolute VMS Lite doesn't run "Can not execute the Ipsolute VMS Lite. Please update the Graphic Card Driver to recent version." with a message from the start.	The Graphics card driver is more than 6 months old. For Ipsolute VMS Lite to run properly, the graphics card in your computer has been updated with the latest driver. To find out what graphics card is installed in your computer, a diagnostic program called dxdiag can be used. DirectX version is 9.0 or higher.
	In Windows XP 1. Select [Start]. 2. Choose [Run]. 3. Enter "dxdiag" in the Run dialog box and click OK. 4. If a prompt appears for the Diagnostic Tool, click [Yes]. 5. Select the Display tab. The name of the Graphics card appears under Device. 6. If the "Direct3D Acceleration" and "DirectDraw Acceleration" options are not enabled, change them to enable.
	In Windows Vista, Windows 7 1. Select [Start]. 2. Enter "dxdiag" in the Start Search field. 3. If a prompt appears for the Diagnostic Tool, click [Yes]. 4. Select the Display tab. The name of the Graphics card appears under Device. 5. If the "Direct3D Acceleration" and "DirectDraw Acceleration" options are not enabled, change them to enable.
	To download the latest driver you need to visit the graphics card manufacturer's web site. Some of the more common ones are • nVidia - www.nvidia.com • ATI - www.amd.com • S3 - http://www.s3graphics.com
	To upgrade the graphics card drivers on your computer: 1. Download the driver from the manufacturers web site to your hard drive 2. Make sure that there are no other programs running on your computer. 3. Uninstall the existing drivers. 4. Run the installer and follow the wizard to install necessary files. 5. Reboot to activate the change.

Symptoms	Resolutions
Video Streaming Problem	• If the client PC's are unable to access the multicast stream, check with the system administrator for the use of a valid multicast address or check if the router is supporting multicasting. • If the images appear to have white or gray stripes on it, upgrade the Video graphics driver on the client PC to the latest version. • If two different video streams were mixed in one channel, check they have same multicast address.
UI is not drag & drop	Reduce the CPU usage and device connection number. Disconnect the device or reduce the frame rate.
Error message was shown except authentication deny while loading the device setup	Check the device status such as IP configuration, network connection and the network bandwidth usages of the Ipsolute VMS Lite.
Suffer a long time to load timetable data and to play video/audio data from the recording server (NAS)	• Check that the usages of recording server (NAS) meets it's requirements and the network bandwidth usages. • At the same time while recording video/audio data, the reading of it may cause delay.
Fail to read Timetable data from the recording server (NAS)	Check network drive setting for playback in the Station Setup or the IP device's system time
The warning message is displayed when you access the device setup menu of the connected camera.	If the Network encryption option is set to HTTPS, the warning message is displayed. You should install the certificate or change the Network encryption option to HTTP to solve the problem. You can install the certificate as shown below. 1. Check the SSL option on the [Tools>Add/Edit/Remove Device] menu. 2. Access the device setup menu of the connected camera. The warning message will be displayed. 3. Install the certificate to your computer following the on-screen instructions.

Symptoms	Resolutions
Some recorded data do not exist.	If you change the capacity for the data recording to lower than pre-recorded data size, the recorded data was deleted apart from assigned capacity by overwriting. Before you change the capacity for the data recording, check the current recorded data size and then back up the data or you should assign the bigger capacity than the recorded data size.
Device Search_ Add/Edit/Remove	<u>There is no Search device.</u> - Check the Device Status. ex) network connection , booting operation of device and power connection of device. cf) network condition : Client(Ipsolute VMS Lite installed PC) network and device network are the same local area. - Check the Client Status. ex) check the network connection or check that a firewall is not blocking a "Bonjour". If firewall refused "Bonjour" or "UDP Packet" , please set to the accept "Bonjour" and "UDP Packet". - Not supported "port forwarding". ex) Unique value of device is only IP Address in Ipsolute VMS Lite Device Search. So Ipsolute VMS Lite is not supported "Port forwarding". <u>Too long Device Search time</u> Check the CPU Usage. If CPU usage is over 90%, all of operation of Ipsolute VMS Lite couldn't normal performance. <u>Can't manual registration of device.(not search registration)</u> Manual registration is possible only connectable device. Check the device information for register condition. Ex) IP Address, User ID , Password. <u>There are same IP address in searched results.</u> It is IP Conflict. If the LG network device is set with a static IP address and if the DHCP option is set then there may be ip's same as the network device and other network partner. Hence set the static ip address to 0.0.0.0 to resolve this conflict.

Symptoms	Resolutions
IP Utility	<u>There is no Search device.</u> 1) Check the Device Status. ex) network connection , booting operation of device and power connection of device. cf) network condition : Client(Ipsolute VMS Lite installed PC) network and device network are the same local area. 2) Check the Client Status. ex) check the network connection or check that a firewall is not blocking a "Bonjour". If firewall refused "Bonjour" or "UDP Packet" , please set to the accept "Bonjour" and "UDP Packet". 3) Not supported "port forwarding". ex) Unique value of device is only IP Address in Ipsolute VMS Lite Device Search. So Ipsolute VMS Lite is not supported "Port forwarding". 4) There are same IP address in searched results. It is IP Conflict. If the LG network device is set with a static IP address and if the DHCP option is set then there may be ip's same as the network device and other network partner. Hence set the static ip address to 0.0.0.0 to resolve this conflict. <u>Can't network setting.</u> 1) For network setting, Client(Ipsolute VMS Lite installed PC) network and device network have to the same local area. 2) Check that a firewall is not blocking a port number 81. "81 port" is used WSDL communication for network setup. Please set to the accept "81 Port". <u>Can't IP setting by ARP_PING of device.</u> 1) For IP setting by ARP_PING, client IP address and device address is the same local area. For example, If the client IP address is 10.164.47.000 , device IP address must 10.164.47.xxx. That is ARP_PING SPEC. 2) Check the device setting of Enable ARP Ping in Ipsolute VMS Lite_RemoteSetup. If this setting is not checked , ARP Ping is disabled.
The warning message is displayed when you access the device.	If the Network encryption option is set to HTTPS, the warning message will be displayed. You should install the certification or change the Network encryption option to HTTP to solve the problem. You can install the certificate as shown below. 1. Log-in the device. 2. Install the certificate to your computer following the on-screen instructions.

Ipsolute VMS Lite Live view has white screen, after the window's sleep mode & hibernate mode.	The Ipsolute VMS Lite does not support window's sleep mode & hibernate mode. To resolve this problem, please restart the Ipsolute VMS Lite.
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