

 LiteShow II User's Guide



Declaration of Conformity

Manufacturer: InFocus Corporation, 27500 SW Parkway Ave. Wilsonville, Oregon 97070 USA

European Office: Louis Armstrongweg 110, 1311 RL Almere, The Netherlands

We declare under our sole responsibility that the LiteShow wireless adapter conforms to the following directives and norms:

EMC Directive 89/336/EEC, Amended by 93/68/EEC

EMC: EN 55022

EN 55024

ETSI EN 300 328 V1.6.1:2004

EN 301 489-01 V1.5.1:2004

EN 301 489-03 V1.4.1:2002

EN 301 489-17 V1.2.1:2002

EN 61000-3-2

EN 61000-3-3

Low Voltage Directive 73/23/EEC, Amended by 93/68/EEC

Safety: EN 60950: 2000

The Agency/Regulatory Approval for the computer's wireless adapter is solely the responsibility of the adapter manufacturer - not InFocus Corporation.

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User's Guide Travel Restrictions

You must keep this User's Guide with your LiteShow II adapter at all times when traveling in countries other than the United States of America.

FCC Warning

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

--Reorient or relocate the receiving antenna.

--Increase the separation between the equipment and receiver.

--Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

--Consult the dealer or an experienced radio/TV technician for help.

CAUTION: The Part 15 radio device operates on a non-interference basis with other devices operating at its frequency. Any changes or modification to said product not expressly approved could void the user's authority to operate this device.

FCC CAUTION: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

IMPORTANT NOTE: FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 2.5cm between the equipment and your body. Proper operation of this radio according to the instructions found in this user's guide will result in user exposure that is substantially below the FCC recommended limits.

- Do not touch or move antenna while the unit is transmitting or receiving.
- Do not hold any component containing the radio such that the antenna is very close or touching any exposed parts of the body, especially the face or eyes, while transmitting.
- Do not operate a portable transmitter near unshielded blasting caps or in an explosive environment unless it is a type especially qualified for such use.
- Do not operate the radio or attempt to transmit data unless the antenna is connected: if not, the radio may be damaged.

Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies with Class B Limits of Industry Canada. Operation is subject to the following conditions:

- 1 This device may not cause harmful interference, and
- 2 This device must accept any interference received, including interference that may cause undesired operation.

The device is certified to the requirements of RSS-139-1 and RSS-210 for 2.4-GHz spread spectrum devices. The use of this device in a system operating either partially or completely outdoors may require the user to obtain a license for the system according to the Canadian regulations. For further information, contact your local Industry Canada office.

Agency Approvals

NOM, CE, FCC

Other specific Country Approvals may apply, see please product certification label.

WARNING: This device is approved for indoor use only.

The unit is to be used only with the proper power supply, P/N:PSCI IR-050.

WARNING: DO not remove the plug and plug into the wall outlet by itself, always attach the plug to the power supply first before inserting the plug into the wall.

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Introduction

Congratulations. You have chosen to step into the future of wireless projection by using the InFocus LiteShow II cable-free digital projection system. The system consists of the LiteShow II wireless adapter and the LiteShow Manager software. It is a powerful and secure wireless projection system which allows you to send sharp images from a computer to any VGA compatible projector or display device. It is easy to set up and configure.

Included items

- LiteShow wireless adapter
- Power adapter
- Power cord
- VGA cable
- Audio cable
- Documentation and CD

Be sure to register your LiteShow II online at www.infocus.com/register to receive product updates, announcements, and registration incentives.

Key Features

Easy to use setup software

VGA connections

Mirrors content of primary and extended monitor/desktop

Wireless and Ethernet connectivity device can act as an access point and simultaneously connects to the Internet

Project wired or wireless through your existing network using Enterprise mode.

Guest mode allows visitors the ability to project without compromising your internal network.

802.11 b/g Wireless LAN compatibility

WEP 64 bit, WPA-personal, WPA2, and WPA2-Personal (PSK) with AES encryption security features

Upgrade software via the Internet

Supports video playback

Supports audio playback

Requirements

Display device compatibility: Analog VESA, 640x480, 720x480, 720x576, 800x600, 1024x768, 1280x720, 24 and 32 bits per pixel, 60 and 75Hz refresh rates

Hardware

The minimum hardware requirements are:

CPU: Pentium 4 or M > 1.5GHz (Dual-Core Processor is recommended)

Memory: 512 MB

Available disk space: 10 MB

Software

The minimum software requirements are:

Operating System:

Windows XP Home/Professional Edition SP2

Windows Vista (1 GByte RAM recommended)

Wireless Utility software: Microsoft Wireless Zero Configuration (WZC)

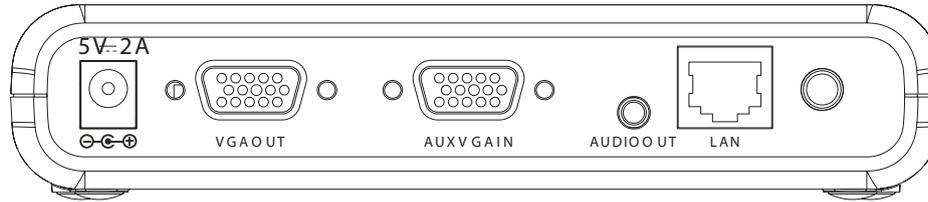
Media Player: WinDVD, Media Player Classic or PowerDVD. Refer to "Recommended Media Players" for more information.

Wireless Protocols: 802.11b or 802.11g (802.11g is required for full-motion video)

Connecting the LiteShow II Adapter

Required connections

Connect the included VGA cable from the VGA OUT port on the LiteShow II adapter to the VGA in port on your projector. Connect the AC Power adapter to a power outlet, then connect it to the Power In connector on the adapter. The LED on the front of the adapter lights steady red while the adapter is booting up and steady green when the adapter is initialized and ready. (The LED blinks green when the adapter is in use and it blinks red in the event of an error.)



If you plan to mount the adapter adjacent to the projector, drill 2 holes 8 cm apart. A mounting template is included on page 34 to help you locate the holes.

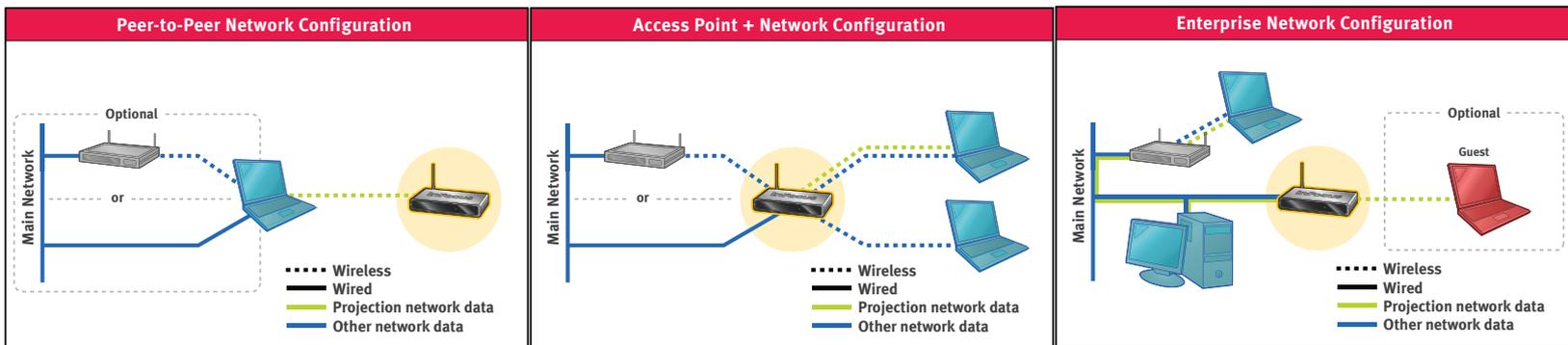
Turn on your projector. The LiteShow Startup screen appears on your display. Note that this screen can change based on the adapter's network type. Additional information, like adapter host name and adapter IP address may appear. See pages 20-26 for detail on network type and related settings.

this is the default adapter name, you can customize it, see page 15



Optional connections

If you want to be able to access the main network through the LiteShow II adapter, either connect an Ethernet cable from the LAN port on the LiteShow II adapter to the main network, or connect the adapter to the main network wirelessly. See page 8 for details. If you are using Enterprise mode, you must connect the adapter to the main network with an Ethernet cable.



Auxiliary video

If your projector is already installed and connected to a wired VGA cable, you can continue using that cable when you aren't using the LiteShow II adapter. Disconnect that cable from the projector, and connect it to the AUX VGA IN connector on the adapter instead. In this configuration, auxiliary video will be displayed unless the adapter is in use.

Sound

To hear sound played from the adapter, connect the included audio cable from the AUDIO OUT port on the LiteShow II adapter to your projector. You can control sound output using Adapter options, see page 17.

Installing LiteShow II Manager Software on your Computer

You can install this application from the included LiteShow Manager CD or download it from the LiteShow II adapter or from our website. It is easier to install it directly from the CD.

- 1 Insert the LiteShow II CD into your computer.

The install screen appears. Follow the instructions on the screen to install the necessary software and drivers on your computer. A reboot may be required at the completion of the installation.

Installer creates the following items:

InFocus > LiteShow II folder in Start > Programs with LiteShow II User's Guide, LiteShow Help, LiteShow Manager, and Uninstall LiteShow Manager.

It can also install a LiteShow II Manager desktop shortcut.

You only need to download and install once. After you have installed the software, to start projecting, double-click the LiteShow II Manager shortcut on your computer or choose LiteShow Manager from the Start/All Programs/InFocus/LiteShow Manager.

To install from the adapter, follow the instructions on the Liteshow splash screen.

Connecting to the Main network/Internet

If you want to be able to access your main network/internet while also using the LiteShow II adapter, you must do one of the following:

- 1 If your computer has both a wireless and a wired connection, connect to the main network using the wired connection, and use the wireless connection to project to the adapter.
- 2 If your computer has only one wireless network connection, you can configure the LiteShow II adapter to act as a wireless access point. In this mode, your computer reaches the main network/internet through the wireless connection to the adapter. See page 20.

Running LiteShow II Manager Software

On your computer, either choose LiteShow II Manager from the InFocus menu or double-click the LiteShow II Manager shortcut on your desktop. Adjust the angle of the antenna on the back of the adapter to maximize the wireless signal strength.

The Main window appears.

NOTE: Many functions can be accessed either by clicking the appropriate button or by pressing the corresponding Alt-key equivalent. These are indicated in the software by underline initial letters. For example, to start projecting, either click that button or press the Alt+S keys.



signal strength is gray bars when no wireless network is connected, green bars when connected. adjust the antenna angle on the back of the adapter to maximize wireless signal strength.

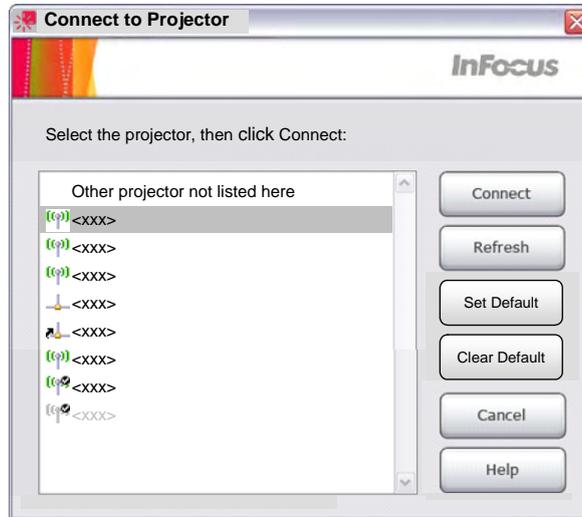
If you see "Not connected", you must connect to a projector or display device. Click Connect to Projector..

This window allows you to select which projector you want to use to display your desktop. The name of the projector at your location will be shown in the adapter's splash screen under "adapter name". Select the desired one and click Connect.

If you experience problems wirelessly connecting to the LiteShow II adapter, or you experience dropped connections while projecting, you may be able to resolve (or greatly improve) these problems by trying the following steps:

1. Search your computer manufacturer's support website for the latest driver software for your computer's wireless network adapter. This is the best option as it increases the likelihood that the driver has been tested with your model of computer. If this option does not result in a suitable driver, then go to step 2.
2. Search for the driver on the wireless network adapter manufacturer's website. This may produce the most recent version of the driver, but this configuration may not have been tested with your specific model of computer.
3. Some antivirus products may close the wireless connection if they detect a virus pattern. The projection data sent by LiteShow may trigger a 'false positive' in this case, even though no virus is present. Typically checking the Event Viewer in Windows can help to identify this issue.

For up-to-date support on this issue, visit <http://www.infocus.com/support/liteshowII> or check the Read Me file included with your LiteShow II software. For other assistance with issues, see the Troubleshooting section starting on page 27.



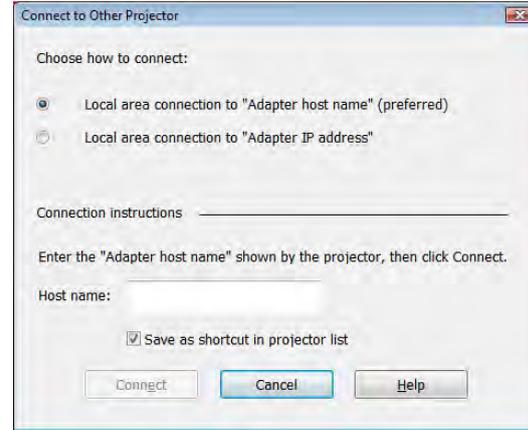
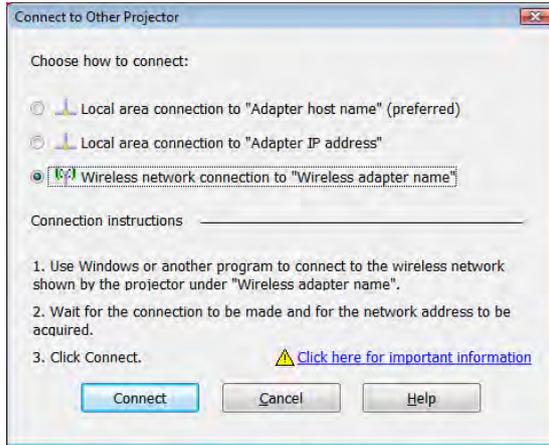
If you have connected to a projector in the past, you can click the Start Projecting button to immediately start displaying your desktop to the projector. To make meetings more collaborative, you do not have to exit the entire application to hand over access to the projector to another user, you can simply click Stop Projecting. Toggling this button starts and stops projection of your desktop. Use Connect to Projector only if you want to change projectors.

Icons

Icon	Meaning
	Auto-detected wireless adapters. Text is full SSID.
	Auto-detected wired adapters. Text is hostname or IP address.
	User-created shortcut to wired adapters. Text is hostname entered on Other Projector dialog box. To delete, select it and press Delete key.
	A checkmark indicates the default projector.

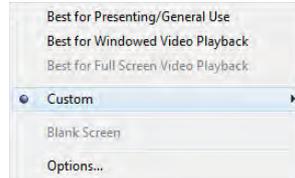
Connect to Other Projector

This dialog box allows you to connect to other projectors not listed in the Connect to Projector dialog. You can access this directly by holding down the Alt key while clicking Connect to Projector. Host name shortcuts saved here appear in the Connect to Projector dialog. The 3rd radio button option will only be visible if your computer's built in Wifi wasn't detected.



Display modes

You can select among three different display modes: Presenting/General Use (non-video, the default setting), Windowed Video, and Full Screen Video (this option will only be active when a video is detected that can be displayed in full screen). You can also select Custom settings by selecting a resolution (640x480, 800x600, 1024x768, 1280x720, or 1280x800) and by specifying your Desktop appearance (Duplicated or Extended). The Color Depth (24 bit or 32 bit) is set automatically by the software and cannot be changed. You can also choose Blank Screen to hide your desktop and show a blank screen instead. This allows you to keep using the screens on your computer without projecting them. Choose Un-Blank Screen to resume projecting your data.



Custom: Projection resolution

Projection resolutions of 640x480, 800x600, 1024x768, 1280x720, and 1280x800 are supported

- 640x480 is typically used to display video while in Extended Mode (default extended mode resolution). This resolution provides the best Frame per Second performance and ensures a smooth video for computers with minimum CPU capability.
- 800x600 provides better video quality for computers with high performance CPUs (e.g., dual core systems)
- 1024x768 screen resolution is best used when displaying graphics such as Power Point or other presentation material that contains text and detailed graphics. Video performance will suffer in this resolution due to the CPU and 802.11g wireless bandwidth limitations. Use "Extended Mode" and a lower resolution to improve video quality.
- 1280x720 and 1280x800 have been added for those projectors that can project this widescreen aspect ratio.

Custom: Extended vs Duplicated Mode

Extended Mode is a feature in a computer that allows you to extend viewing capabilities by using two or more monitors at the same time. To connect more than one monitor to a computer, you must have a computer with more than one monitor port. LiteShow Manager "installs" a virtual monitor port to enable extended mode. Extended mode allows you to display a single document or application across multiple monitors, or use each monitor to display a different document or application than is displayed on your primary monitor. It also allows the monitors to have independent resolutions, color depth, and refresh rates. Extended mode is useful for presentations where the user wishes to display one screen to the audience while reading notes from another (hidden) screen. It is also used to view spreadsheets across several monitors so that all columns or rows can be seen without scrolling, in graphic and Web design to edit an HTML page on one monitor while viewing the rendered Web page on another, and in gaming.

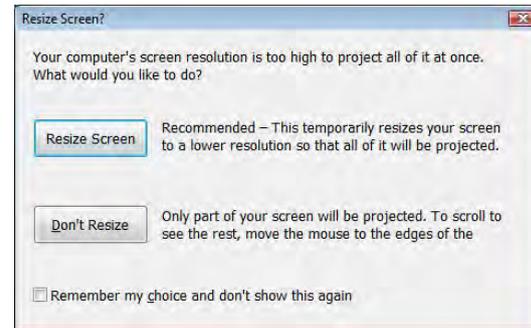
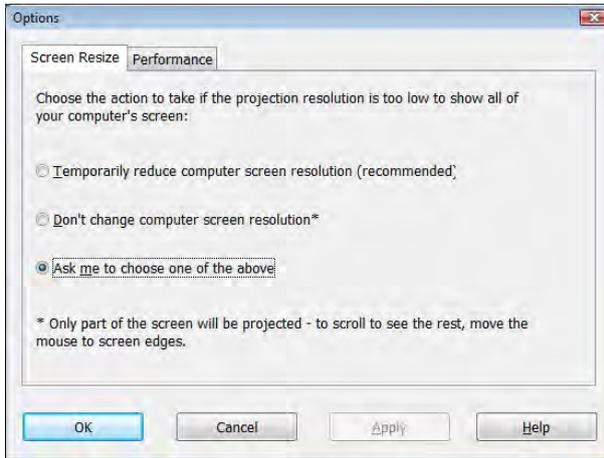
While operating in Extended Mode, the LiteShow application captures the extended (virtual) monitor. This functionality permits the user to view MPEG and DivX files or streaming Internet content via a media player (e.g., PowerDVD, WinDVD, etc.) on the extended desktop while continuing to use their primary desktop for other applications.

Duplicated Mode means that the screen capture is occurring from the normal desktop, or primary monitor.

NOTE: Not all versions of Windows support extended mode. Windows Vista does not support extended mode.

Options

There are 2 tabs in Options. Screen Resize allows you to control how LiteShow II manager adjusts the image if the projection resolution is lower than the computer's resolution. You can choose to resize, to not resize, or to be asked the next time you start to project.



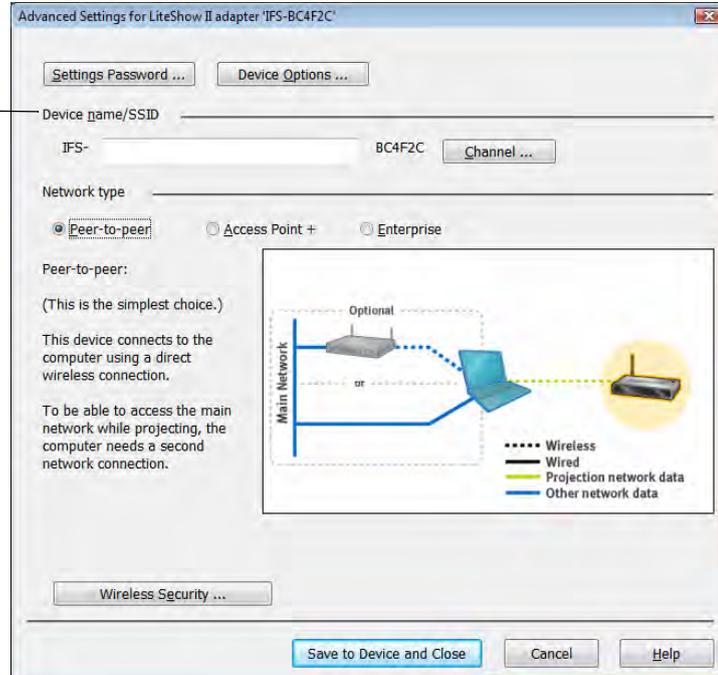
The Performance tab controls how often the projected image is updated when the display mode is Presenting/General Use (this setting does not affect the speed of Video Playback display modes). Higher speeds use more of your computer's processing power, which may slow it down. For best results, choose the highest speed that doesn't impact the performance of Windows or other programs. This can be changed while you are projecting to immediately adjust the update rate.



Advanced settings

Advanced settings are for adapters, are per-adapter, and are only accessible when you are connected to an adapter. The advanced settings button is disabled if you aren't connected to an adapter. You can select password settings, network and security types, and access codes. You can set a password up to restrict access to advanced settings. You can also set an access code to ensure users project to the intended device. The bottom part of this window changes if you select Access Point +, see page 22 for those options, and if you select Enterprise mode, see page 25.

this is the default adapter name, you can customize the name by adding text in the box, but the prefix IFS- and the suffix remain the same.



Password Setup

Click Settings Password to create or change the password, up to 32 characters. This password prevents unauthorized users from accessing Advanced settings. Users will be prompted for the password when they click the Advanced Settings button on the Main window. The password is adapter-specific, so if you want to protect multiple adapters, you must connect to each one individually and set the password.



Adapter Options



Turn the following 3 options on by checking their checkboxes.

Access Code

This causes the adapter to display a 4-digit code on the projection screen that must be entered by the user before the desktop is displayed. Use this to prevent users from using projectors that are not at their location (users must be in the same location as the projector to see the access code).

Local Audio

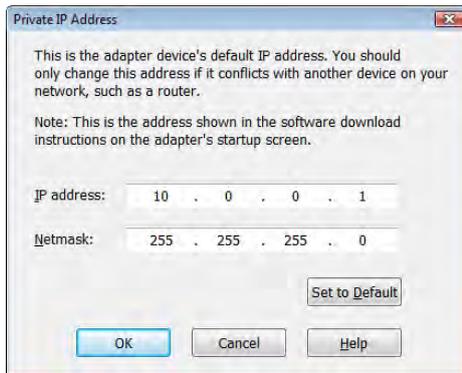
This sends sound to the computer's speakers instead of the adapter. Select this if the adapter's AUDIO OUT connector is not used.

Auxiliary computer input priority

By default, the adapter stops showing auxiliary video when a user begins to wirelessly project to the adapter. Select this to instead have the adapter always display auxiliary video when it's available; in this mode, if you want to project to the adapter, the computer connected to auxiliary video first needs to be turned off or disconnected from the auxiliary connector.

Private IP Address

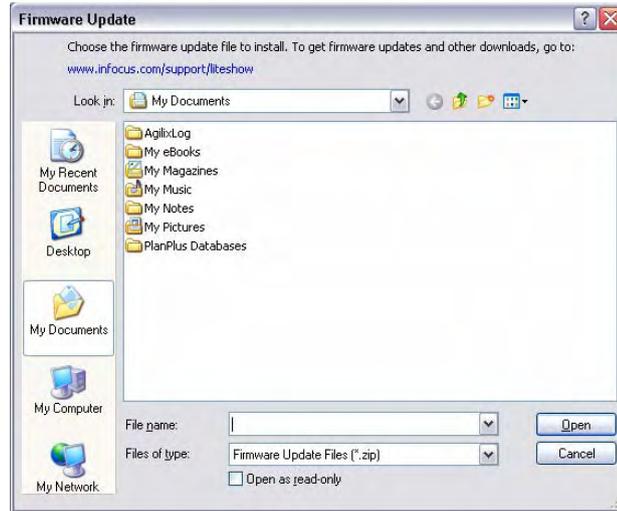
This allows you to change the adapter's wireless IP address. Only do this if the default conflicts with another device on your network.



Firmware Update

Click to open a dialog box to access the InFocus website to download the latest firmware versions (you must be connected to the Internet). The current firmware version appears in the lower-right corner of the Splash screen.

You may need to update the LiteShow Manager software before updating the firmware.



Restart Adapter

This disconnects you from the adapter.

Factory Reset

Click this button to return all settings to factory default. You can also do this by holding down the adapter's Reset button for 5 seconds.

Device name/SSID

The default name appears. You can modify this to help identify which projector the adapter is connected to by typing text in the box, but the prefix IFS- and the existing suffix must remain.

Channel

If there is interference on your network, you can select a different channel. Remember that all wireless devices must be on the same channel in order to communicate.



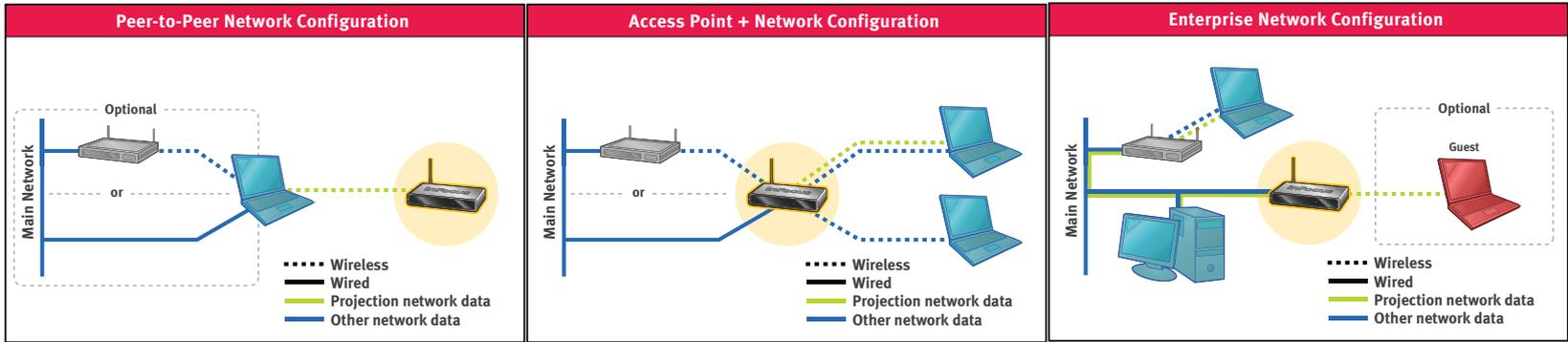
Network Types

There are three different network types, Peer-to-Peer (default), Access Point +, and Enterprise. All allow you to specify security settings when using wireless connections.

Peer-to-Peer

This is the simplest mode. In this mode, one computer projects to the LiteShow II adapter at a time using a direct wireless connection. If you click Stop Projecting, another computer can connect to that adapter. While the adapter is in use, the computer's wireless connection cannot be used to access the main network/Internet.

However, if you have an additional network connection on your computer (e.g. a wired connection, or a second wireless connection), then while you are projecting, you can use the second network connection to access network features like email or Internet.



Access Point +

In this mode, you can make the adapter act like a wireless access point by connecting it to your existing network either via a wired ethernet connection, or wirelessly. This allows network users to use the adapter as a regular wireless access point, which means they can access the network and Internet, and use the adapter for projecting, at the same time (but only one computer can project at a time). The adapter can connect to the Main network either wirelessly or wired. If it connects wirelessly, you can specify security settings.

Enterprise

In this mode, you can connect the LiteShow adapter to the main network via an Ethernet cable as a trusted device, inside of the network. Then, registered users of the main network can access corporate assets like the Internet or shared drives while they are projecting wirelessly. Any computer on the main network can project. The security of the main network applies to the LiteShow adapter.

Wireless Security for Peer-to-Peer

You can choose to encrypt your data using an open WEP key (64 or 128 bit) or a WPA-personal with TKIP encryption. The valid keys length/type are as follows:

WEP 64 - 5 letters/digits or 10 hexadecimal

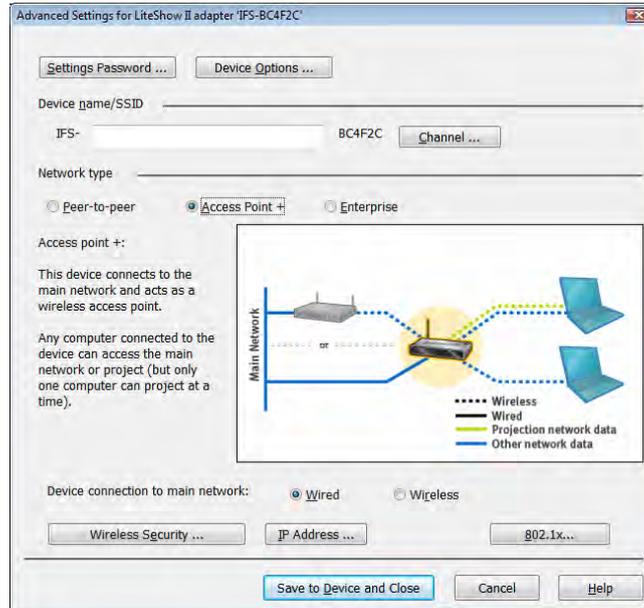
WEP 128 - 13 letters/digits or 26 hexadecimal

WPA - Personal and WPA2-Personal (PSK) - 8-63 ASCII characters

Enter the key, then click OK. You must click "Save to Adapter and Close" in the next dialog box to save these settings.



Access Point + specific Advanced settings



Adapter connection to main network

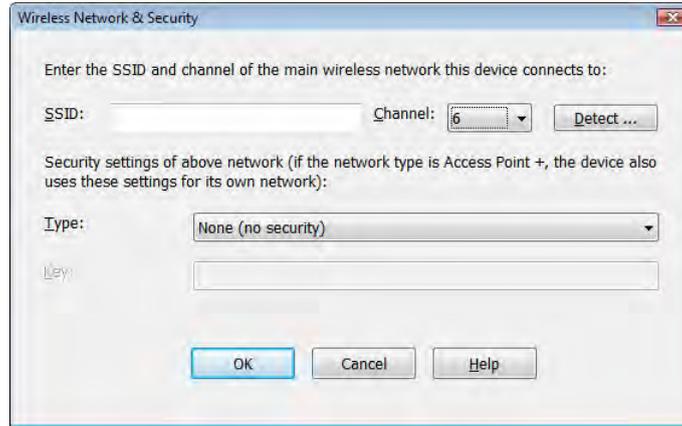
Choose Wired or Wireless. If Wireless, the Wireless Network & Security button becomes active.

Wireless Network and Security

You can specify the type of security your network uses, and the adapter will use the same settings.

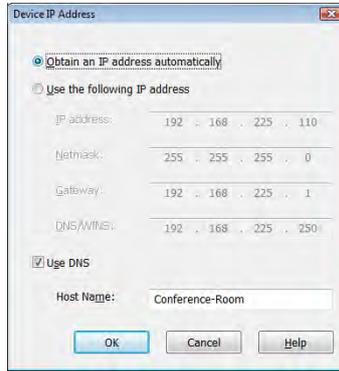
Enter the SSID and channel of your main network, or click Detect to show all detected networks on all channels. Select the Security type from among WEP 64 bit, WEP 128 bit, WPA-personal with TKIP encryption, and WPA2-Personal (PSK) then fill in the appropriate Key.

NOTE: The security level increases as you move down the pulldown list. The security type selected here must match the security type of the existing Main network.



IP Address

By default, IP addresses are assigned automatically. If you want to specify one, click IP Address and provide the applicable information.

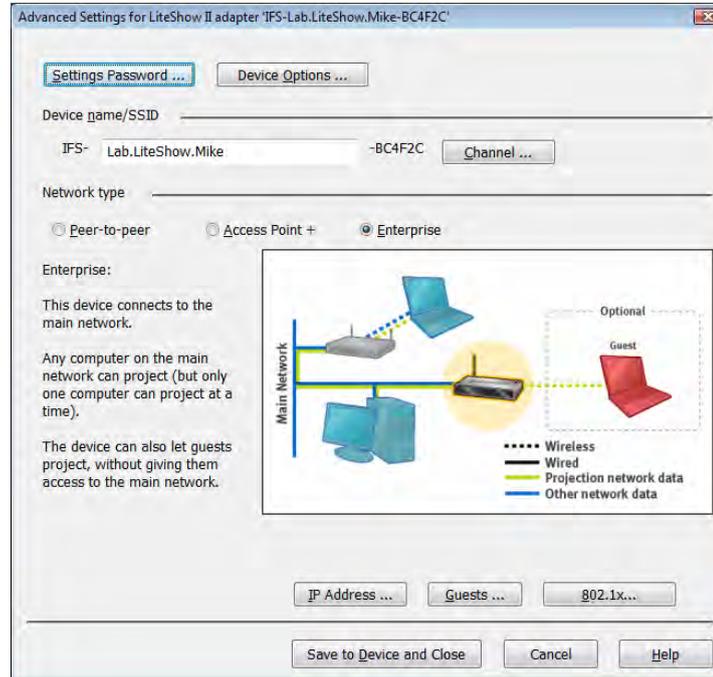


802.1x

This feature allows your LiteShow adapter to integrate into a secure wired corporate network. Contact your IT department if this feature is needed. If your network requires 802.1x authentication, enter your information here.



Enterprise specific Advanced settings



The Guest feature of Enterprise mode allows guests (people not registered on the main network) to project wirelessly to the LiteShow adapter without being granted access to the main network.

Guests



By default, Allow guests is checked, meaning guests are allowed. To prevent guests from projecting, uncheck this box. Select what type of security applies to guests, if any.

Troubleshooting and Maintenance

Reset the LiteShow II adapter

Soft Reset

A soft reset reboots the system with all user settings saved. Press the reset button for about one second. The LED turns off for two seconds, then the system reboots.

Hard Reset

A hard reset reboots the system with all factory default settings restored. Press the reset button for five seconds or more. The LED turns off for two seconds, then the system reboots. This will remove all password protection you may have applied previously.

Category	Issue	Solution
Power	LiteShow II has no power LiteShow II Power LED is not lit	Verify the power supply connector is plugged into LiteShow II and a working AC power outlet. Perform a hard reset. Try a new LiteShow II power cord.
Connecting	The LiteShow II device I want to connect to is not showing up in my LiteShow Manager	Verify that the projector and the LiteShow II device are both turned on, and that the LiteShow II splash screen is displaying. Verify the wireless network strength on the LiteShow Manager software. Adjust the antenna angle on the back of the adapter, if needed, to maximize the wireless network strength.
Connecting	“Connect to Projector” option is not available while using Windows XP	Installation requires Administrator privileges. The "Connect to Projector" option will not work without Administrator privileges. Manually select the Wireless Network through the operating system after LiteShow Manager starts.

Category	Issue	Solution
Image	The projector is not displaying the computer's image	<p>Verify the LiteShow Manager software has been installed and is displaying on the computer. Click "Start Projecting" or "Connect to Projector" to select a different LiteShow II device. (The LiteShow Manager should display the same adapter name as the LiteShow II device.)</p> <p>Verify that another user is not displaying through the desired LiteShow II device. Only one computer can display at a time.</p> <p>Verify the wireless network strength on the LiteShow Manager software. Adjust the antenna angle on the back of the adapter, if needed to maximize the wireless network strength. Also make certain the computer and LiteShow II device are within 100' (30.46m) of each other for the best possible communication.</p> <p>Verify the computer meets or exceed basic LiteShow II requirements (See below.)</p> <p>Verify the computer is plugged into AC power, rather than just batteries.</p> <p>Peer-to-Peer: Try using a different channel (LiteShow Manager: Advanced Settings menu). (his will help if the device is experiencing wireless interference.)</p> <p>Access Point: Check to see how many people are currently using the LiteShow II device as an access point. The signal may become too weak to display the computer image through the projector because of excess users.</p>
Image	The computer's image is split across the computer monitor and the projected image	In the LiteShow Manager, click the "Display Mode" button and choose "Custom" and then "Duplicated".
Image	The computer image and the projected image are duplicated rather than split	In the LiteShow Manager, click the "Display Mode" button and choose "Custom" and then "Extended".
Image	The projected image is not complete and pans when I move my mouse	This happens if the computer resolution is higher than the LiteShow II resolution in "Duplicated" mode. Drop the computer resolution down to no higher than 1024 x 768.
Image	Extended mode not available	Extended mode may not be supported on all versions of Windows.

Category	Issue	Solution
Image	No full screen video on Vista	<p>The option "Best for Full Screen Video Playback" requires extended mode. Since extended mode is not supported on Windows Vista, this option will not be available. However, it is possible to experience full screen video on Windows Vista by doing the following:</p> <ol style="list-style-type: none"> 1. In your computer's Display control panel, select 640x480 resolution. It may be necessary to choose "Advanced" and "List All Modes..." to select 640x480. 2. Select "Best for Windowed Video Playback" in LiteShow Manager. 3. Start your DVD or video player software and switch it to full screen mode. 4. Do not move the mouse or use the keyboard for at least 3 seconds and the system will switch to video half-line mode for a better video experience.
Image	The LiteShow II image keeps freezing The LiteShow II image is suffering from extremely slow/poor performance	<p>Verify the computer meets or exceed basic LiteShow II requirements. Slow down the graphics/video update rate, which will free up more processing power for other tasks. Choose Options... from the end of the Display Mode menu, click the Performance tab, then pick a lower speed.</p>
Image	I have trouble connecting or my connection drops while projecting	<ol style="list-style-type: none"> 1. Update the driver software of your wireless network adapter to the newest version available from your computer manufacturer's website (although your current driver may be working fine for web and email, correct handling of projection data is more demanding and more sensitive to driver issues). 2. If a newer driver isn't available from your computer manufacturer, check the wireless network adapter manufacturer's website instead (but this driver may not have been tested with your specific computer and software configuration). 3. It's also possible that your antivirus software is monitoring your network traffic and breaking the wireless connection when it incorrectly identifies projection data as virus data. If you believe this is the problem, you can try updating your antivirus software and/or changing its settings. <p>For up-to-date support on this issue, visit http://www.infocus.com/support/liteshowII or check the Read Me file included with your LiteShow II software</p>
Image	My video performance is jerky	Change the resolution of the video down (LiteShow Manager: Display Mode>Custom>640 x 480).
Image	My video window got smaller	This is normal behavior. In order to obtain the smoothest video playback, the LiteShow Manager automatically adjusts video down to 800 x 600 resolution.
Video	I cannot display full-motion video	Verify that your wireless card is an 802.11G card.

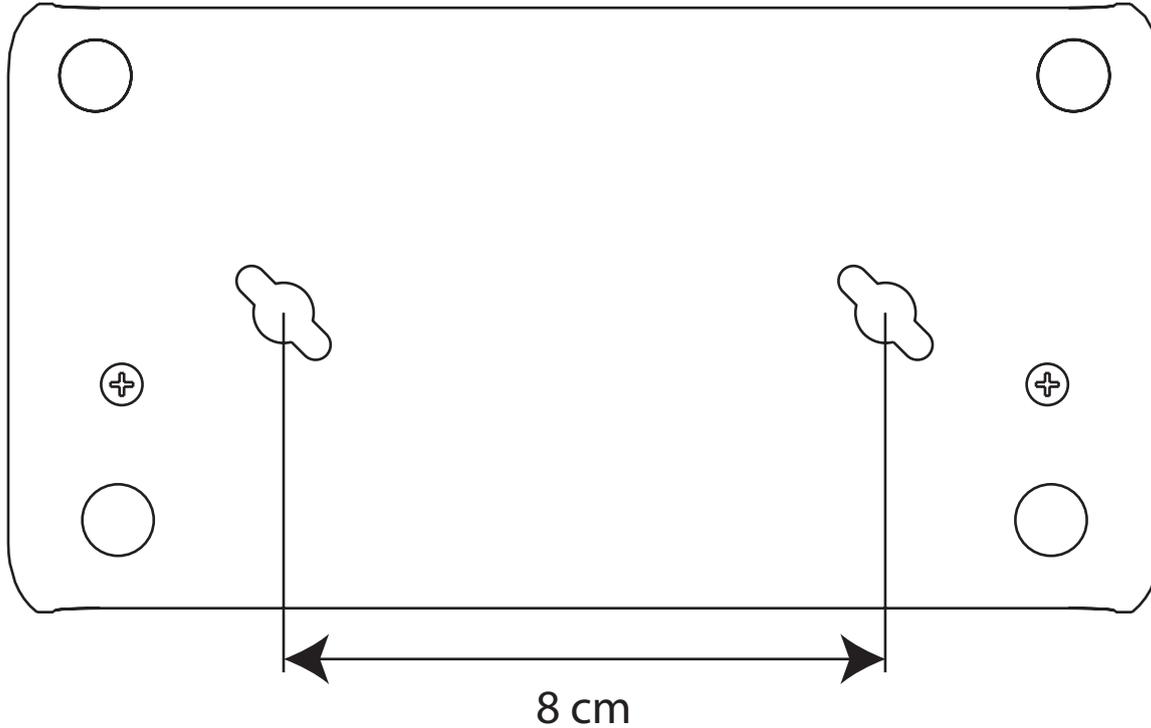
Category	Issue	Solution
Video	I can't get to full screen video mode	Full Screen Video Playback" mode (800 x 600 resolution or less) is only available with select media players (WinDVD 6 or Media Player Classic) and only when running the media player in Extended mode. (From the Windows Task Bar, right click on the Media Player icon and select the "Move to Display" option.) For non-compatible video modes, "Full Screen Video" mode will be grayed out.
Audio	I want to hear audio through my projector	Peer-to-Peer: Plug a 3.5mm mini-din audio cable into the projector's Audio In port and into the LiteShow II AUDIO OUT port. Note: Disable the computer microphone in order to avoid feedback. Access Point: Plug an audio cable from the computer audio out port into the projector's audio in port. Wireless audio is not available when using the LiteShow II as an access point.
Audio	LiteShow audio driver used for other devices	LiteShow Manager installs an audio driver in your system that enables it to stream audio to the LiteShow II Adapter. This driver (PC2TV Audio) is enabled when projecting, and disabled when you stop projecting. If a media player is started while the LiteShow Audio is activated, the media player will continue to use the LiteShow Audio driver even after exiting LiteShow. Simply exit and restart the media player to allow it to use your default audio player. In a few rare cases, LiteShow Manager might not change the audio driver to the desired setting. If this happens, the audio device can be changed manually by doing the following: 1. In Control Panel open "Sound and Audio Devices". 2. Change "Sound Playback" and "Sound Recording" devices to the desired device. * On Windows Vista, you may see the Audio Properties window flash open quickly and close. This is normal behavior.
Audio	I am hearing an echo/squealing	The computer microphone is on. If audio is not desired at all, unplug the audio cable from the LiteShow II device and the projector, or go into the LiteShow Manager and choose "Local Audio" from the Device/Adapter Options. If audio is desired without the microphone, disable the computer microphone (XP: Control Panel>Sounds & Audio Devices Properties menu).

Category	Issue	Solution
Internet/Email	I can't access my local network anymore for email or for the internet, after I have disconnected from the LiteShow Manager	Peer-to-Peer: If you have disconnected from LiteShow II and are no longer presenting from your computer to the projector, close the LiteShow Manager. If the LiteShow Manager closed unexpectedly and you are unable to access your email/internet, restart the LiteShow Manager and close normally. This should cause your Wireless Zero Configuration setting to be turned back on automatically. Otherwise, the Wireless Zero Configuration setting may need to be manually turned back on (XP: Control Panel>Administration Services>Tools>Wireless Zero Services "enable"). Access Point: Check with your IT administrator to verify proper set-up of LiteShow II as an AP.
Internet/Email	I have the LiteShow Manager open, but can't project my local network (email, Internet etc.) using the LiteShow II and my computer	Peer-to-Peer: Activate a second wireless card on your computer or plug a standard network cable from your computer into the closest network RJ45 connector. Access Point: If you cannot access the network, contact your IT administrator to verify proper set-up of LiteShow II as an access point. If the network is accessible but cannot be displayed, refer to "The projector is not displaying the computer's image" scenario above.
Error Messages	An error message keeps appearing saying that I must upgrade my wireless driver	The LiteShow Manager has determined that your embedded computer or 3rd-party wireless card does not meet the LiteShow II requirements. Although you may obtain an image on the LiteShow device, unexpected results or undesirable quality may result. If you cannot upgrade your wireless card on the manufacturer's website, it is recommended you try a different wireless card or connect your computer to the projector using a computer cable.
Password	The Advanced Properties window requires a password	Your IT administrator has set a password up for this LiteShow II device. Check with your IT administrator for assistance. Note: The password is adapter specific.
Password	I can't set my password up	Up to 21 alphanumeric characters can be used, including underscores, dashes, and blank spaces.
Password	I forgot my password	Perform a hard reset. Access Point: Contact your IT administrator for assistance.
Software	I don't have the LiteShow Manager software installed	There are three options to install the LiteShow Manager software: 1)Use the CD-ROM which came with the LiteShow II device. 2)If you have internet access, go to: www.infocus.com/support/LiteShowII 3)If the LiteShow II device is turned on, open Internet Explorer (or other browser utility) and type: http://10.0.0.1 , then click "Download Software".

Category	Issue	Solution
Firmware	I'm trying to upgrade my firmware, but it is not working	Perform a soft reset of the device and restart your computer. If the problem persists, perform a hard reset. If the resets do not resolve the problem, contact Service.
Macintosh Compatibility	I can't project my Macintosh through LiteShow II	At this time, the Macintosh Operating System is not supported.
Enterprise mode-specific troubleshooting		
Connection	Host name feature not working; can't connect via host name	The DHCP server needs to be configured to deliver the WINS server IP address.
Connection	Networked LiteShow adapters do not appear on "connect to projector" list	UDP packets may be blocked by the switch or router. If this feature can't be enabled, use the "Connect to Other Projector" dialog to connect to the adapter.
Security	WPA-2 not working on Windows XP	This support is not natively installed on XP or part of automatic updates. An update needs to be downloaded from Microsoft.

Adapter Mounting Template

If you want to mount the adapter, you can cut this template out to help you locate the holes to drill.



Mounting Instructions

1. Drill two 5.5mm (7/32") holes per the template.
2. Insert the two provided plastic mounts into the holes.
3. Install the two provided mounting screws into the plastic mounts. Do not screw these in tight. Leave a 1-2mm (.04-.08") space between the screw heads and the plastic mounts.
4. Line up the mounting holes on the bottom of the LiteShow II with the screw heads and insert the screw heads into the bottom of the LiteShow II.
5. Slide the LiteShow II either to the front or the back, locking the screw heads into place.

One-Year Warranty

Limited Warranty

Subject to the Limitations, Exclusions and Disclaimers hereof, InFocus Corporation (“InFocus”) warrants that the Projector, Lamps and Accessories (hereinafter collectively or individually referred to as “Product” as appropriate) purchased from InFocus, an InFocus distributor, or an InFocus reseller will conform to InFocus’ specifications and be free from defects in material or workmanship for the respective Limited Warranty period provided below. InFocus does not warrant that the Product will meet the specific requirements of the end-user customer.

If the Product, while subject to this Limited Warranty, is defective in material or workmanship during the warranty period, then InFocus, at its option, will REPAIR or REPLACE the Product.

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Product Limited Warranty Period: One (1) year from date of purchase.

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This Limited Warranty excludes Product cleaning, repair, or replacement of plastics due to cosmetic damage and damage as a result of normal wear. Product repair outside of the terms of the Limited Warranty will be on a time and materials basis. Prolonged Product "demonstration" causes unusual Product wear and is not considered normal use under the terms of this Limited Warranty.

The Accessory Product Limited Warranty covers the accessory item only and excludes normal wear. The Lamp Product Limited Warranty excludes expected lamp degradation.

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The Limited Warranty periods hereof commence on the date of purchase by the end-user customer. These Limited Warranty provisions shall apply only to the end-user purchaser (first person or entity that purchased a new Product for personal or business use and not for the purpose of distribution or resale). SOME JURISDICTIONS MAY GRANT YOU CONSUMER RIGHTS WITH MINIMUM WARRANTY DURATION THAT DIFFER FROM THE DURATIONS PROVIDED HEREIN, AND INFOCUS WILL HONOR ALL SUCH CONSUMER RIGHTS.

To Be Eligible For Limited Warranty Coverage

Any person exercising a claim under this Limited Warranty must establish to the satisfaction of InFocus both the date of purchase and that the Product was purchased new. The sales receipt or invoice, showing the date of purchase of the Product is the proof of the date of purchase.

To Obtain Warranty Service

During the Limited Warranty period, to exercise this Limited Warranty, the purchaser must first contact 1) InFocus, 2) a service facility authorized by InFocus or 3) the place of original purchase.

InFocus Customer Service – 1-503-685-8888 or visit www.infocus.com/service

For Warranty service, the purchaser will be advised to return or deliver the defective Product freight and all fees prepaid, to an InFocus Service Center or to a service facility authorized by InFocus. When returning Product to InFocus, a Service Request Number (SR #) is required and must be clearly displayed on the outside of the shipping carton or a similar package affording an equal degree of protection. InFocus or the service facility authorized by InFocus will return the repaired/replaced Product freight prepaid to the purchaser.

Products returned for Warranty service must be accompanied by a written letter that: (i) explains the problem; (ii) provides proof of date of purchase; (iii) provides the dealer's name; and (iv) provides the model and serial number of the Product. Upon request of InFocus Corporation or an authorized repair center for InFocus, proof of legal import must accompany the warranty repair Product, otherwise the Product must be returned to the place of original purchase, to the manufacturer (Purchaser must bear all tax, duty and freight), or the Purchaser must bear charges for the warranty repair.

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