InFocus Mirror Driver

The InFocus Mirror Driver is a device driver which hooks into the graphics subsystem of Windows 2k/XP systems and "mirrors" screen draws to the LiteShow software. This results in improved screen capturing performance while decreasing the processor utilization over other methods.

Basic Feature Set

The current wireless driver does not support advanced network switching; therefore, the Scan button functionality is disabled. LiteShow Manager can use Network Profiles to enable projection to the LiteShow Adapter. For advanced feature set support, see Update wireless network driver.

Advanced Feature Set

The current wireless driver fully supports advanced network switching; Scan button will allow LiteShow Manager to switch between detected 802.11b wireless networks. This allows the detection of any LiteShow Adapters configured on specific WLAN's.

Network Profiles

Network Profiles allow you to manually configure a network configuration for a LiteShow adapter when advanced feature set is not available. A network profile allows a user to save settings for different wireless networks, and switch between them easily. For detailed information, see www.infocus.com/service/liteshow.

Update Wireless Network Drivers

Reference your wireless hardware vendor’s technical support for 802.11b driver update. Most vendors now support WLAN configuration options that provide for advanced network switching features.

Advanced network switching in the LiteShow Manager is referencing the Network Device Interface Specification (Version 5.1 or later) - WLAN Object Identifier (NDIS WLAN OID) application interface that allows PC applications to configure network properties. This allows LiteShow Manager to automatically switch and identify LiteShow Adaptors on detected WLAN’s.

In the event your 3rd party does not support Advanced Network Switching, refer to the www.infocus.com  for known
compatible 802.11b wireless cards.

Updating your LiteShow with LiteShow Updater

The CD or disk image contains a PC application called LiteShow Updater. You can use this application to update the software on your LiteShow Adapter. It is important to bring your LiteShow Adapter's software up to date in order to take advantage of the many new feature, stability improvements, and speed enhancements of LiteShow 1.2.

To use LiteShow Updater, double click the LiteShow Updater application icon on your CD. Check the Select box of the rows representing the LiteShow Adapter(s) you wish to update. Click the Update button in the lower right corner of the LiteShow Updater window to begin the update.

When the update(s) are complete, the Status column will read "Done" for each LiteShow and the Version column will indicate the version of LiteShow software that is now present on each device.

Infrastructure mode and LiteShow

802.11b wireless networking implementations typically assume one of two modes. Adhoc (also known as Computer-to-Computer) and infrastructure, which requires an access point (additional hardware) to manage multiple clients. The LiteShow 1.0 device works only in Adhoc or Computer-to-Computer mode. During the time the address is being created by the local DHCP server, no projectors will be found and projection cannot happen. (Refer to the online Help file for information on configuring a static IP address).

If the LiteShow device is configured with the same name as an existing infrastructure network name, projection will not work. It will be necessary to configure the LiteShow device to have a different networking name outside of the range of the infrastructure network in order to regain the use of the device. Alternately a restore to factory settings can be performed.

WEP/LEAP and LiteShow

Neither WEP nor LEAP wireless security implementations are supported in the LiteShow device for version 1.1. Instead the LiteShow system comes complete with 128-bit AES encryption scheme that ensures security that is comparable to using a cable. This option can be set in the LiteShow Manager application's preference section before projecting.

Using a 3Com Card

With ZCS off, if 3COM WLAN adapter is switched from Ad-Hoc to Infrastructure, the 3COM adapter doesn't obtain a DHCP address. ZCS needs to be turned on.

Wireless Cards that LiteShow 1.2 has been tested with

The following wireless cards have been tested with LiteShow 1.2

- 3Com PC Card, 3CRWE62092B
- Belkin 802.11b Wireless Notebook Card, F5D6020
- Belkin 802.11g Wireless Notebook Card, F5D7010
- Cisco Aironet 350 PCMCIA Adapter, AIR-PCM352
- D-Link Air Wireless, DWL-650H (Note – Need to turn Zero-Config off when using WinXP)
- D-Link AirPlus Xtreme G, DWL-G650
- Linksys Wireless-B Notebook Adapter, WPC11
- Linksys Wireless-B USB, WUSB11
- Linksys Wireless-G Notebook Adapter, WPC54G
- Linksys Wireless-G USB, WUSB54G
- Microsoft Wireless USB Adapter, MN-510
- NetGear 54 Mbps Wireless PC Card, WG511
- Netgear 802.11b Wireless PC Card, MA521
- Netgear 802.11b Wireless USB Adapter, MA101
- Netgear 802.11b Wireless USB Adapter, MA111
- ORiNOCO Turbo 128RC4
- Proxim ORiNOCO 11b/g PC Card, 8470-WD (Note – Need to turn Zero-Config off when using WinXP)
- SMC EZ Connect 11 Mbps Wireless PC Card, SMC2632W
- SMC EZ Connect g 54 Mbps Wireless Cardbus, SMC2835W

The specification from Microsoft regarding the support of Scanning using Windows 2000 has changed. In many cases, manufacturers of wireless PC Cards have chosen to not support Scanning on this platform with future driver releases. Due to this implementation, selecting the Scan button in LiteShow Manager may not do anything.
Access Points that LiteShow 1.2 has been tested with

The following access points have been tested with LiteShow 1.2
- Cisco Aironet 1200
- D-Link AirPlus Xtreme G Wireless Access Point, DWL-2000AP
- D-Link Wireless Access Point, DWL-700AP
- NetGear 802.11b ProSafe Wireless Access Point, ME103
- NetGear 802.11g ProSafe Wireless Access Point, WG302
- Linksys Wireless-B Access Point, WAP11
- Linksys Wireless-G Access Point, WAP54G

Some access points have settings that prevent clients that are connected to the access point from communicating between each other. Examples of this would be “MU-MU Disallow” or “Public Secure Packet Forwarding”. If you have configured an access point with these settings, the LiteShow server will not communicate with the LiteShow Manager.

Network Bridge

In Windows XP, if the WLAN Adapter is configured under a Network Bridge then LiteShow Manager will display Basic Feature Set.

3D Screen Savers Incompatibility

Some 3D Screen Savers require a resolution change that LiteShow does not support. The result of projecting one of these Screen Savers will be a blank screen.

Direct Draw and Overlay image Incompatibility.

Some applications like WinDVD draw directly to the display thus bypassing the video adapters memory buffer. The Mirror driver is unable to intercept these draw commands resulting in non-support of any application using Direct-Draw or Overlays.

Windows XP Service Pack 2 Beta Multicast Issue

An issue was discovered with Windows XP Service Pack 2 Beta that prevents multicast packets from being received by running applications under some circumstances. This effects LiteShow Manager, LiteShow Updater, and Projector Manager III. The problem manifests itself in the following manner. All LiteShow devices display “unknown” as their status and do not become available again. And in the case of PM III no projectors are found at all.

To work around this problem, quit all running applications, log out of Windows, and log in again.

This issue has been reported to Microsoft and may be fixed in a future version of Service Pack 2.

Restore to factory settings

Netgear reports this limitation of the LiteShow software. With 1.2, you no longer need to use a remote control to trigger the factory reset. These are the new steps:

1. Turn off projector
2. Remove LiteShow from projector
3. Remove protective cap
4. Remove the 802.11b radio from LiteShow
5. Plug in the LiteShow
6. Power on the projector
7. Wait for projector to show LiteShow Splashette (the LiteShow informational image that is projected)
8. A dialog warning you that you are about to reset to factory settings will appear. Wait until the splashette indicates that the factory reset has completed.
9. Once the restore is complete, shutdown the projector
10. Reinsert the 80211.b radio card and replace the cap
11. Power on projector
12. Basic Splashette appears

The Default settings are defined as follows;
Name: myLiteShow
WLAN: LiteShow

Netgear reports limitation using WEP at 11MBits/s

Although firmware WEP is functional at 11MBits/s, there is performance degradation when using WEP at this rate.
Traveling outside of the US

Certain countries outside of the US have channel restrictions when using 802.11b wireless. Make sure you are compliant for the country being visited. The channel can be selected on the Computer-to-Computer dialog.