LongView® IP KVM Extender System
Firmware Revision 4.0.0.0
Release Notes
August 4ᵗʰ 2010
This document outlines:
1. LongView IP Extender System Firmware Version and Compatibility
2. Important Installation Notes
3. Important Sharemode notes
4. How to Update Firmware
5. Enhancements
6. Fixes

==
LongView IP Extender System Firmware Version and Compatibility
Version 4.0.0.0
==
Version 4.0.0.0 of the LongView IP Extender System firmware is intended to be used in a system with the following LongView extender system component revisions:
- LVIPDH-T transmitter revision 4.0.0.0
- LVIPDH-R user station revision 4.0.0.0
- LVIPHR-R user station revision 4.0.0.0
- LVIPHR-T transmitter revision 4.0.0.0
- LVIP-T transmitter revision 4.0.0.0
- LVIP-R user station revision 4.0.0.0
- LVIPVG-R user station revision 4.0.0.0
- LVIPVG-T transmitter revision 4.0.0.0

==
Important Installation Notes
==
The new Sharemode software version 4.x.x.x for the LongView IP extender system firmware is NOT compatible with older versions of LongView IP extender system firmware! All transmitters and receivers on your network MUST be upgraded to firmware version 4.x.x.x or higher, if they are not already at that level. If you have purchased a completely new system, please check the software versions of each device to ensure that they are all at level 4.x.x.x or higher.

==
Important Sharemode Notes
==

New Network requirements for Sharemode

Using the LongView IP extender system in Sharemode requires IGMP protocol version 2 or higher network capabilities. In addition, all Ethernet switches to which the LongView IP extender system user stations and transmitters are connected must be IGMP Snooping capable and have IGMP Snooping enabled. Transmitters in Share Mode send out multicast IP packets to the Ethernet switch. If the switch used is a non-IGMP capable switch, the switch will broadcast the packets to every port, causing undesirable results.

For private mode only users, IGMP is not required, and no changes to any current network settings are required.

Monitor Requirements

All monitors connected to receivers that are sharing a particular transmitter have to be capable of displaying the same resolution and frequency. The transmitter cannot transmit multiple resolutions at the same time.

Important Parameters to be configured when Setting-up for Sharemode

- *The gateway addresses have to get set on the transmitters and receivers when Sharemode is used.* If you do not have a default gateway IP address, then use the IP address of the Ethernet switch as the gateway address. For private mode operation only, the gateway addresses for the transmitter and receiver do not have to get set, but they still may be set for consistency if the user desires.
- For Sharemode, both the transmitters and the receivers have to get set to Sharemode. Setting Sharemode is done from the serial interface.
- For Sharemode, it is recommended that Monitor Resolution Checking at the receivers get set to "off". This can be set by the serial interface.
- Up to 8 receivers can share a target (computer) that is connected to a single transmitter. If there are 2 targets and each target is connected to its on transmitter, then 16 receivers can share the 2 transmitters, but no more than 8 receivers may be connected to the same target at a time. This multiplying effect can continue allowing for hundreds of transmitters and receivers connected concurrently on a single system.
- See the HMX User Guide for more information.

===
How to Update Firmware
===
The receiver can be upgraded using a serial or http upgrade procedure, as described below.
Prior to upgrading/downgrading:
1. Remove any attached vMedia devices (memory key or CD\DVD ROM).
2. When reverting to a previous version of firmware, always set the Network Speed on both the transmitter and receiver to Auto-Negotiate.

Procedure 1 - Serial port upgrade

1. Both the transmitter and receiver have to get upgraded to 4.0.0.0. The transmitter has to get upgraded first.
2. Power up the receiver and transmitter and make sure there is a connection between them.
3. Connect the receiver via a null modem cable to a PC running HyperTerminal or equivalent.
    Configure the HyperTerminal session for 57600 bits per second, 8 data bits, no parity, 1 stop bit and no flow control.
4. From the first screen on the console, select option 2 to access the Transmitter menu. If the password option is enabled, you will be prompted for a password ("password" is the default).
5. From the Transmitter menu, select option 3, *Firmware Management*.
6. Choose *Transmitter Flash Upgrade Via XMODEM.*
7. You will begin seeing the letter C going across the screen. In HyperTerminal, go to the Transfer pull-down menu and choose *Send file.*
8. In the Filename field, specify the location of the upgrade file *TX1000_XXXX.dld.* In the Protocol pull-down menu, select *Xmodem*. Click the *Send* button to initiate the file transfer. The upgrade should be completed in approximately 35 minutes. *The filename to load in the unit is as follows:*

Unit	Filename
LVIP-R	RX0000_4.0.0.0
LVIP-T	TX0000_4.0.0.0

LVIPDH-R	RX1000_4.0.0.0
LVIPDH-T	TX1000_4.0.0.0
LVIPHR-R	RX2000_4.0.0.0
LVIPHR-T	TX2000_4.0.0.0
LVIPVG-R	RX0000_4.0.0.0
LVIPVG-T	TX0000_4.0.0.0

9. Since you are upgrading from non-sharemode software to sharemode software, near the end of the upgrade there may be serial activity scrolling on the screen. This is an indication that the upgrade is complete.
10. Disconnect the Ethernet (cat5) cable from the back of the transmitter, and proceed with the upgrade of the receiver.
11. Cycle power on the receiver.
12. From the first screen on the console, select option 1 to access the Receiver menu. If the password option is enabled, you will be prompted for a password ("password" is the default).
13. From the Receiver menu, select option 3, *Firmware Management*.
14. Then select *Receiver Upgrade Via XMODEM.*
15. You will begin seeing the letter C going across the screen. In HyperTerminal, go to the Transfer pull-down menu and choose *Send file.*

    (Continue instructions on the next page of this document)

16. In the Filename field, specify the location of the upgrade file *XXXXXX_4.0.0.0.dld*. In the Protocol pull-down menu, select *Xmodem*. Click the *Send* button to initiate the file transfer. The upgrade should be completed in approximately 35 minutes. *The filename to load in the unit is as follows:*

Unit	Filename
LVIP-R	RX0000_4.0.0.0
LVIP-T	TX0000_4.0.0.0
LVIPDH-R	RX1000_4.0.0.0
LVIPDH-T	TX1000_4.0.0.0
LVIPHR-R	RX2000_4.0.0.0
LVIPHR-T	TX2000_4.0.0.0
LVIPVG-R	RX0000_4.0.0.0
LVIPVG-T	TX0000_4.0.0.0

17. Confirm the new revision is displayed on the serial console of the receiver.
18. Once the receiver has been upgraded, re-connect the Ethernet (cat5) cable to the transmitter, and re-establish connection with the transmitter. Then, confirm the new revision of the transmitter by displaying it on the serial console of the transmitter.

Procedure 2 - Upgrade using HTTP
1. Both the transmitter and receiver have to get upgraded to 4.0.0.0. The transmitter has to get upgraded first.
2. Power up the receiver and transmitter and make sure there is a connection between them.
3. Connect the receiver via a null modem cable to a PC running HyperTerminal or equivalent. Configure the HyperTerminal session for 57600 bits per second, 8 data bits, no parity, 1 stop bit and no flow control.
4. Choose option 2 on the Main Menu to access the Transmitter menu. If the password option is enabled, you will be prompted for a password.
5. From the Transmitter menu select option 3, *Firmware Management*.
19. Choose *Transmitter Flash Upgrade Via HTTP.* You will be prompted to enter the URL for the upgrade file. *The filename to load in the unit is as follows:*

Unit	Filename
LVIP-R	RX0000_4.0.0.0
LVIP-T	TX0000_4.0.0.0
LVIPDH-R	RX1000_4.0.0.0
LVIPDH-T	TX1000_4.0.0.0
LVIPHR-R	RX2000_4.0.0.0
LVIPHR-T	TX2000_4.0.0.0
LVIPVG-R	RX0000_4.0.0.0
LVIPVG-T	TX0000_4.0.0.0

6. Enter the URL for the upgrade file using the following syntax:
   http://<server IP address>[:server port]/<upgrade file path>
   For example:
   http://192.168.0.1:8080/TX1000_XXXX.dld

Note: If the server is set up on standard port 80, the port information can be omitted.
The upgrade should take approximately 5 minutes.

7. Since you are upgrading from non-sharemode software to sharemode software, near the end of the upgrade there may be serial activity scrolling on the screen. This is an indication that the upgrade is complete.
8. Disconnect the Ethernet (cat5) cable from the back of the transmitter, and proceed with the upgrade of the receiver
9. Cycle power on the receiver.
10. Connect the receiver via a null modem cable to a PC running HyperTerminal or equivalent. Configure the HyperTerminal session for 57600 bits per second, 8 data bits, no parity, 1 stop bit and no flow control.
11. Choose option 1 on the Main Menu to access the Receiver menu. If the password option is enabled, you will be prompted for a password.
12. From the Receiver menu select option 3, *Firmware Management*.
20. Choose *Receiver Flash Upgrade Via HTTP.* You will be prompted to enter the URL for the upgrade file. *The filename to load in the unit is as follows:*

Unit	Filename
LVIP-R	RX0000_4.0.0.0
LVIP-T	TX0000_4.0.0.0
LVIPDH-R	RX1000_4.0.0.0
LVIPDH-T	TX1000_4.0.0.0
LVIPHR-R	RX2000_4.0.0.0
LVIPHR-T	TX2000_4.0.0.0
LVIPVG-R	RX0000_4.0.0.0
LVIPVG-T	TX0000_4.0.0.0

13. Enter the URL for the upgrade file using the following syntax:
http://<server IP address>[:server port]/<upgrade file path>
For example:
http://192.168.0.1:8080/RX1000_XXXX.dld
Note: If the server is set up on standard port 80, the port information can be omitted.
The upgrade should take approximately 5 minutes.
14. Confirm the new revision is displayed on the serial console of the receiver.
15. Once the receiver has been upgraded, re-connect the Ethernet (cat5) cable to the transmitter, and re-establish connection with the transmitter. Then, confirm the new revision of the transmitter by displaying it on the serial console of the transmitter.

===
Enhancements
===
1. Sharemode functionality added to LVIPHR-T, LVIPHR-R, LVIPDH-T, and LVIPDH-R
2. Added capability for 4.0.0.0 LVIP-T, LVIP-R, LVIPVG-T and LVIPVG-R to co-exist on a network with 4.0.0.0 versions of LVIPHR-T, LVIPHR-R, LVIPDH-T, and LVIPDH-R. Note: While the LVIPHR-T, LVIPHR-R, LVIPDH-T, and LVIPDH-R, units can co-exist on the same Ethernet network with other units that are operating in sharemode, the LVIP-T and LVIPVG-T units cannot be shared.
3. Added Video Power save option.
4. Added OSD tabs for network configuration.
5. "No video detected" message when DUS is connected to DIP but DIP has no video connection.

```
========================================================================
```
Fixes
```
========================================================================
```

1. Wacom® speed improvement .
2. Workaround for Dual video with HID optimized causing reset on Wacom® stylus motion.