4.   Software Upgrade from Web Site

New application and/or driver software may be released periodically to reflect improvements and/or functionality added to the LYNX GEV camera. You can retrieve these updates by visiting the download page of our web site at http://www.imperx.com/support/downloads.php.

Use the following steps to install newly released application software:

4.1   Uninstall all application and driver files by following the instructions in step 1.
4.2   Download the LYNX_GEV_x_x_x.exe file (x represents the revision) from the Imperx web site to a new folder on your PC (we will use the folder C:\new_LYNX.GEV as an example).
4.3   Left mouse click on *"Start"*, *"Run"* then enter or browse to *"C:\new_LYNX GEV\ LYNX_GEV_x_x_x.exe"*.
4.4   Wait for the "LYNX GEV - InstallShield Wizard" screen to appear.
4.5   Follow the on-screen instructions, and the installation procedure as described in step 2.
4.6   When finished two new icons will appear on the desktop, one for "LYNX GEV Application" and one for "LYNX Terminal".

Driver, Software and SDK Documentation

For a detailed description of the eBUS Universal and Optimal drivers and driver installation, please refer to "LYNX GEV Driver Manual"

For a detailed description of the LYNX GEV Application software, please refer to the "LYNX GEV Software User's Manual".

For a detailed description of the function calls supported by the SDK, refer to the "LYNX GEV C++ SDK Reference Guide"

IMPERX

LYNX GigE Vision (GEV) Software Installation

This guide explains how to install the LYNX GEV software.

Software Suite

The LYNX GEV software suite consists of the following files and folders:

Windows XP and 2000 application files:
located in C:\Program_Files\Imperx\LYNX GEV\Binaries\

Driver files:
located in C:\Program_Files\Imperx\LYNX GEV\Drivers\

LYNX Terminal executable files:
located in C:\Program_Files\Imperx\LYNX GEV\LYNX Terminal\

Documentation files:
located in C:\Program_Files\Imperx\LYNX GEV\Documentation\

SDK files:
located in:
C:\Program_Files\Imperx\LYNX GEV\Includes\;
C:\Program_Files\Imperx\LYNX GEV\Libraries\;
C:\Program_Files\Imperx\LYNX GEV\Samples\

1. If a version of LYNX GEV was previously installed on this machine, then you must first remove it:

1.1 Left mouse click on *"Start"*
1.2 Left mouse click on *"Settings"*.
1.3 Left mouse click on *"Control Panel"*.
1.4 Double left mouse click on *"Add or Remove Programs"*.
1.5 Left mouse click *"LYNX GEV Software"*.
1.6 Left mouse click on *"Remove"*.
1.7 Left mouse click on *"Yes"*.
1.8 Left mouse click on *"Close"*.
1.9 If the 'LYNX - InstallShield Wizard' pops-up:
  - Left mouse click on 'Remove'.
  - Click 'Next'.
  - Click 'Yes'.
  - Click 'Finish'.

2. Software Installation from CD

2.1 Insert the LYNX GEV CD into the appropriate drive; the setup.exe file will run automatically. Note: If it does not start automatically, left mouse click on to *"Start"*, *"Run"*, enter or browse to *"(CD drive):* setup.exe*"* and click *"OK"*.
2.2 Wait for the "LYNX GEV – InstallShield Wizard" screen to appear.
2.3 Follow the on-screen instructions.
2.4 When the install is finished, select "Yes, I want to restart my computer now".

3. NIC Hardware/Driver Installation and IP Configuration

3.1 Install the NIC card in the computer per the manufacturers instructions.
3.2 Follow the manufacturers instructions to install the driver.

3.3 GEV Driver Installation:
3.3.1 Double click the "LYNX GEV Application" icon from the desktop.
3.3.2 Left click on "Tools".
3.3.3 Left click on "Run Driver Installation Tool…".
3.3.4 Select the desired network adapter under "Location" and click the "Configure…" button.
3.3.5 If you are using a **regular NIC card**:
      Select the "eBUS Universal Driver" button.
      If you are using an **Intel PRO/1000 series NIC card**:
      Select the "eBUS Optimal Driver" button.
3.3.6 Click the "Finish" button.
3.3.7 Click "Yes" or "Continue Anyway" to any "Digital Signature Not Found" dialogs.
3.3.8 Click "Exit".

3.4 IP Configuration Procedure:
3.4.1 Open the "Network Connections" dialog from the Windows Control Panel.
3.4.2 Right click on the NIC card's connection and click on the "Properties" item.
3.4.3 Highlight the "Internet Protocol (TCP/IP)" item and click the "Properties" button.
3.4.4 For a Point-to-Point connection (without network connectivity):
3.4.4.1 Select the "Use the following IP address" button.
3.4.4.2 Enter "169.254.x.1" into the "IP address" field. Note that "x" should be different for each NIC card.
3.4.4.3 Enter "255.255.0.0" into the "Subnet mask" field.
3.4.4.4 Click "OK".
3.4.5 For network connectivity:
3.4.5.1 Select the "Obtain an IP address automatically" button.
3.4.6 Click "Close" to exit the "Local Area Connections Properties" dialog.

3.5 Enabling Jumbo Frames (not required if using eBUS Optimal driver):
3.5.1 Open the "Network Connections" dialog from the Windows Control Panel.
3.5.2 Right click on the NIC card's connection.
3.5.3 Click on the "Properties…" button.
3.5.4 Click on the "Configure…" button.
3.5.5 Click on the "Advanced" tab.
3.5.6 In the "Property:" list box, select "Jumbo Frame".
3.5.7 In the "Value:" box, select the largest MTU value available or select "Enable".
3.5.8 Click "OK".
3.5.9 Reboot the computer.
  – **Installation is Complete –**

For more detailed installation instructions refer to the LYNX GEV Driver Manual.
To view this manual, from the Windows Start menu select:
  Start > Programs > ImperX > LYNX GEV > Doc