

# Quick Start for Gravity HL2V (Hotlink II Video) Cards

October 11, 2005

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This document describes the steps required to use Great River Technology series Gravity Hotlink II Video card. This is applicable to both PCI and PMC versions.

1. **Install Windows software API per the supplied "EFC API Install Guide". Follow the steps in this document closely and make sure to install the software first, then install the hardware and complete the installation per the manual.**

**For Linux, refer to the Linux Install Guide and follow the instructions to use the supplied TAR files on the Linux Driver CD.**

2. **Hook up you Camera or Sensor to the card. If you are using FCN style connectors, refer to the Installed document C:\EFCAPI\DOCS\FCN CABLES.PDF. For BNC and SMA, the center is + outer is -**

3. **Are you writing a custom application using the API (SDK) ?**

No

3. Use the supplied test application "**HL2V Rcvr Testapp**" from the windows start menu and refer to "**GRAVITY\_HL2V\_USERS MANUAL**" for the steps to operate this receiver application. Section 3.1

4. Type in your parameters to set the size of your image, bytes per pixel and the start of frame trigger character.

Start the receiver and view live images.

**Done**

Yes

3. Refer to the "**SDK\_HL2VAPI\_USERMAN**" for the listing of exported functions. Section "Function Descriptions" of the API User manual details each of these functions.

Your Card uses Mode \_\_\_\_\_  
(Refer to HL2VAPI\_UserMan for use of this mode)  
Refer to "Video Modes and Format Details" section of the API User Guide for details of your mode.

**Follow steps next page to write custom application**

## Steps to write custom application

- A. Follow the steps in the “Applications and Function Usage” section of the API User guide and or refer to the example code for a basic application framework. For a basic receiver application, start with “exampleHL2V” or for Linux use “efchl2v.c”
- B. Use your frame parameters and set all structure parameters that apply. Refer to the “User Types Defined” section of the API User guide. In the example source code for exampleHL2V file named *exampleHL2VDlg.cpp*, look for the commented section “USER DEFINED AREA Enter parameters per your video definition”. You can also copy and paste these parameters from the HL2V\_RCVR.param file as generated by the “*HL2V Rcvr Testapp*” in section 3.1.4
- C. Add code to the interrupt handler to show or store your data captured. Refer to “Interrupt Notification Methods” section of the API User guide
- D. Make sure your application includes the header file “EFCAPI.H” and the link library “EFCAPI.LIB” located in the C:\EFCAPI\CODE directory.

### Build and run your application

Refer to the table below for the applicable documents and software.

Description	Location from C:\EFCAPI
Supplied Test Applications	HL2V_Rcvr.exe or HL2V_Xmit.exe
API user manual	\Docs\SDK_HL2VAPI_UserMan.pdf
User manual for supplied applications	\Docs\Gravity_HL2V_Users_Manual.pdf
Example Code	\Code\exampleHL2V (For receiver example) or \Code\exampleHL2V_Xmit (For Transmitter example which will only work if you have a camera emulator board) or \Code\HL2Vrate1 (For receiver diagnostics)
Developer Header Files and Link Library	\Code\efcapi.h  \Code\efcapi.lib
<b>For Technical Support Call Toll Free in US 1-866-478-4491 or 505-881-6262</b>	