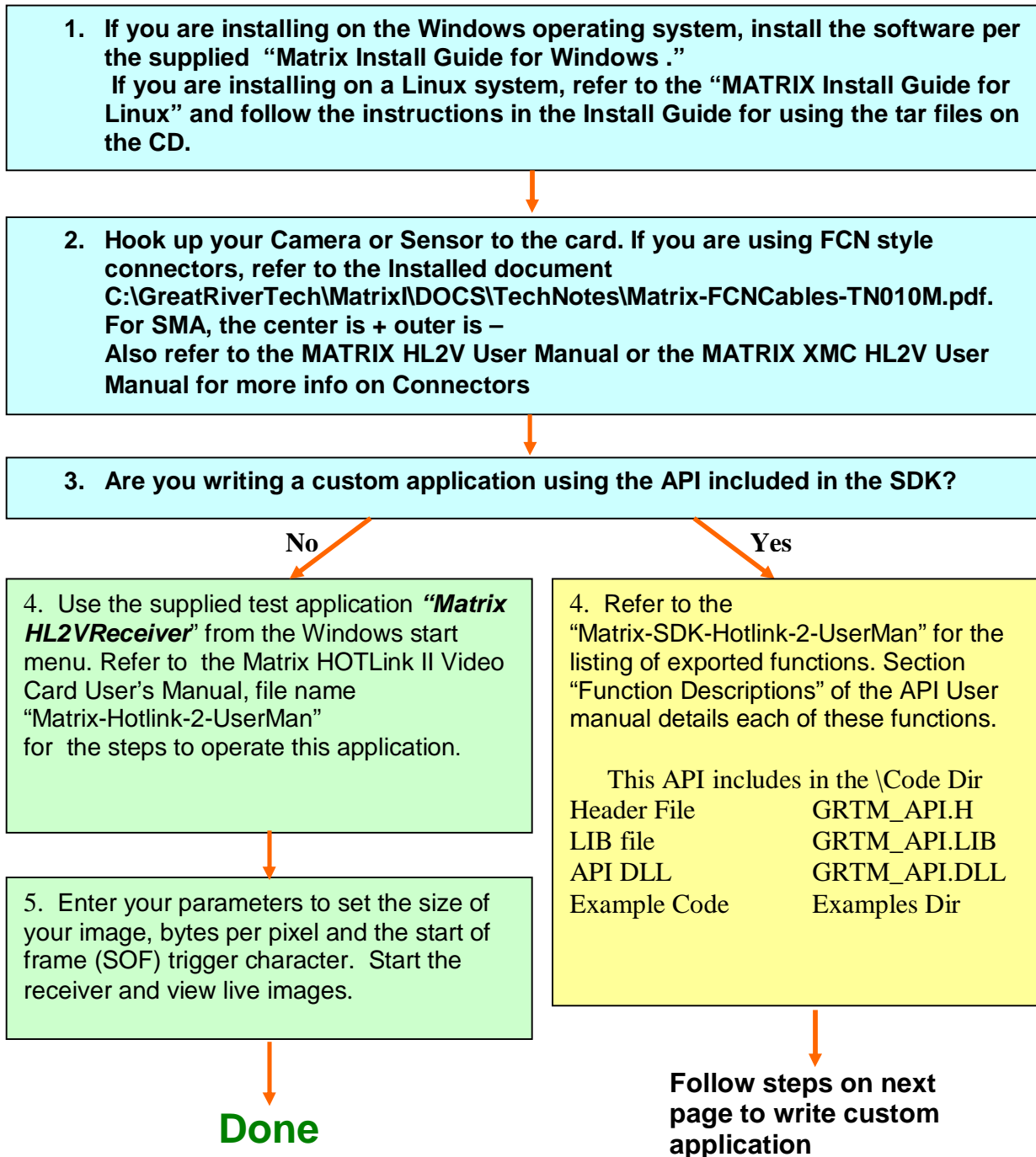




## Quick Start for MATRIX HL2V (Hotlink II Video) Cards

This document describes the steps required to use Great River Technology Matrix series Hotlink II Video card.



## Steps to write custom application

Follow the steps in the “Applications and Function Usage” section of the SDK User’s Manual and/or refer to the example code for a basic application framework.

For a basic receiver application, start with “Basic\_HL2VRcv”

For a basic transmit application, start with “Basic\_HL2VXmit”

- A. Use your frame parameters and set all structure parameters that apply. Refer to the “User Types Defined” section of the SDK User’s Manual.
- B. Run Sample Test Application “MatrixHL2V\_RcvR.exe” to verify the operation of your camera first and copy the frame. The GRTM\_VIDEOINFO structure members are saved after running this app in a file called “matrix\_hl2v\_rcvr.param” These exact values can be used in your code.
- C. Add code to the interrupt handler to show or store your data captured. Refer to “Interrupt Notification Methods” section of the SDK User’s Manual if you will be transferring data from the card to the PC for storage
- D. Make sure your application includes the header file “GRTM\_API.H” and the library “GRTM\_API.LIB” located in the C:\GreatRiverTech\Matrix\CODE directory.

### Build and run your application

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

Description	Location from C:\GreatRiverTech\Matrix
Supplied Factory Test Applications	MatrixHL2V_RcvR.exe (Basic Frame Grabber) or MatrixHL2V_Xmit.exe (Basic Camera Emulator)
API user’s manual (included in SDK )	\Docs\ Matrix-SDK-Hotlink-2-UserMan.pdf
User manual for supplied applications and hardware.	\Docs\ Matrix-Hotlink-2-UserMan.pdf
Example Code (included in SDK )  Located in \Code\examplesHL2V directory	\Code\ExamplesHL2V\ Basic_HL2VRcv (For receiver example) or \Code\ExamplesHL2V\ Basic_HL2Vxmit (Transmitter example, will only work if for a camera emulator board)
API header file and API library (included with SDK )	\Code\grtm_api.h \Code\grtm_api.lib
<b>For Technical Support Call Toll Free in US 1-866-478-4491 or 505-881-6262</b>	