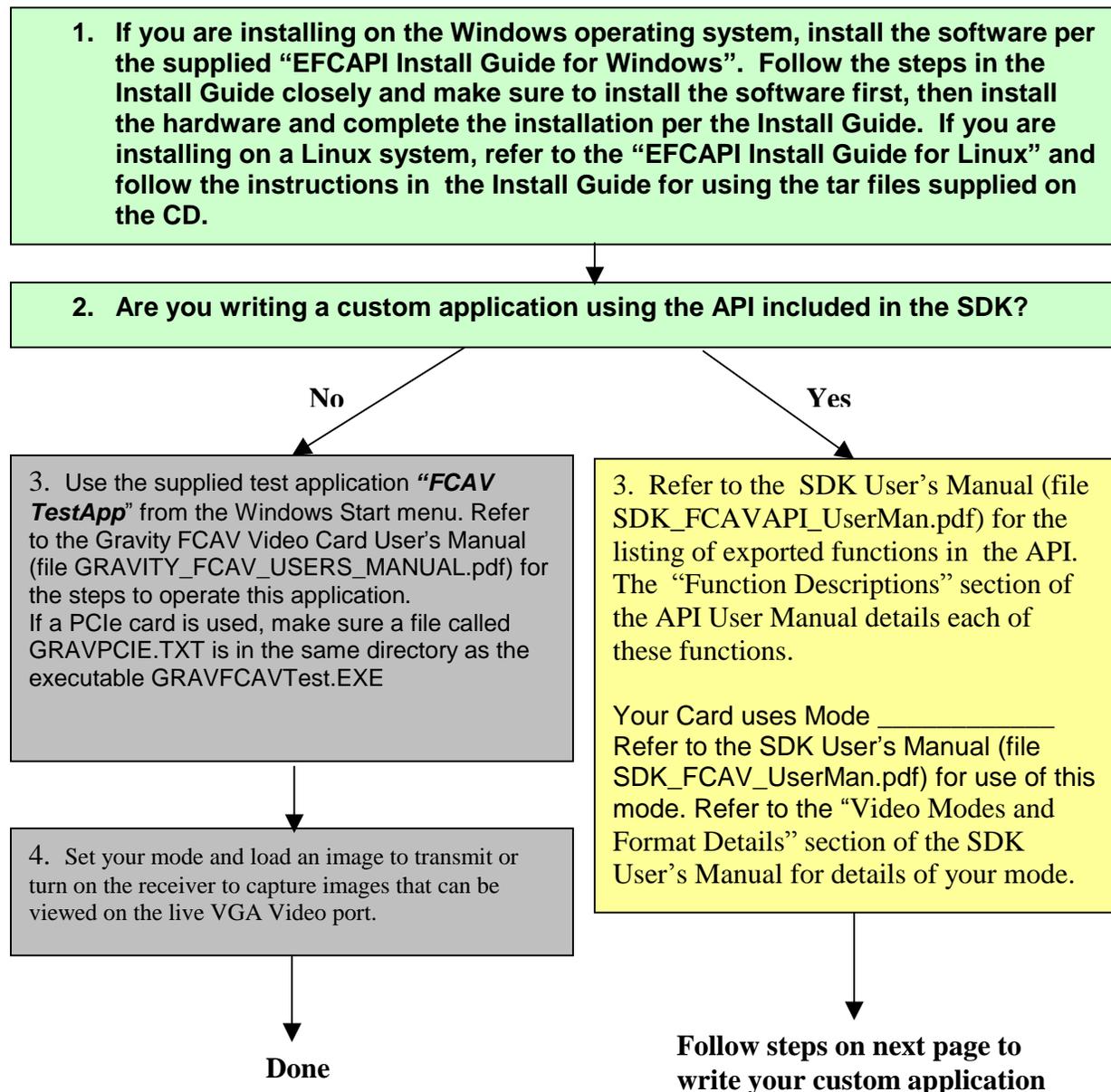Great River Technology

6121 Indian School Rd. NE Ste 141
Albuquerque, NM 87110
www.greatrivertech.com

Quick Start for Gravity FCAV
(Fibre Channel Audio Video) Cards

This Quick Start document describes the steps required to use the Great River Technology Gravity series FCAV card. This document is applicable to both PCI and PMC versions of the FCAV.

1. **If you are installing on the Windows operating system, install the software per the supplied "EFCAPI Install Guide for Windows". Follow the steps in the Install Guide closely and make sure to install the software first, then install the hardware and complete the installation per the Install Guide. If you are installing on a Linux system, refer to the "EFCAPI Install Guide for Linux" and follow the instructions in the Install Guide for using the tar files supplied on the CD.**

2. **Are you writing a custom application using the API included in the SDK?**

No

Yes

3. Use the supplied test application *"FCAV TestApp"* from the Windows Start menu. Refer to the Gravity FCAV Video Card User's Manual (file GRAVITY_FCAV_USERS_MANUAL.pdf) for the steps to operate this application.
If a PCIe card is used, make sure a file called GRAVPCIE.TXT is in the same directory as the executable GRAVFCAVTest.EXE

3. Refer to the SDK User's Manual (file SDK_FCAVAPI_UserMan.pdf) for the listing of exported functions in the API. The "Function Descriptions" section of the API User Manual details each of these functions.

Your Card uses Mode _____
Refer to the SDK User's Manual (file SDK_FCAV_UserMan.pdf) for use of this mode. Refer to the "Video Modes and Format Details" section of the SDK User's Manual for details of your mode.

4. Set your mode and load an image to transmit or turn on the receiver to capture images that can be viewed on the live VGA Video port.

Done

Follow steps on next page to write your custom application

Steps to write custom application

A. 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 application, start with "exampleFCAV" or for Linux use "efcfcav.c"

B. Use your frame parameters and set all structure parameters that apply. Refer to the "User Types Defined" section of the SDK User's Manual. In the example source code for exampleFCAV file named *exampleFCAV.cpp*, look for the commented section "USER PARAM AREA." Enter parameters per your video mode and size.

C. If the application is a receiver and you need to capture data in real time, 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 application	GRAVFCAVTest.EXE (Add GRAVPCIe.TXT file for PCIe operation)
API User's Manual (included in SDK)	\Docs\SDK_FCAVAPI_UserMan.pdf
User's Manual for supplied test applications	\Docs\GRAVITY_FCAV_USERS_MANUAL.pdf
Example code (included in SDK)	\Code\exampleFCAV and \Code\exampleVB_FCAV
SDK API header Files and API library (included with SDK)	\Code\efcapi.h \Code\efcapi.lib \Code\modEFCAPI.bas (visual basic module)
For Technical Support Call Toll Free in US 1-866-478-4491 or 505-881-6262	