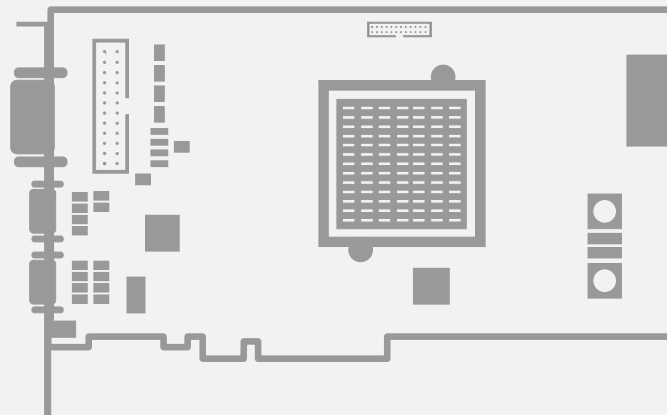


MultiCam

MultiCam Sample Programs



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1. Grablink Sample Programs

Sample programs for Grablink products

GrablinkSnapshot

Windows C/C++ C# VB 6.0 VB.NET Python 32-/64-bit

This is a simple application demonstrating the MultiCam **SNAPSHOT** acquisition mode on a Grablink board. The program performs continuous image acquisitions and display.



NOTE

The sample code is written for the **1624 Grablink Base**, **1622 Grablink Full** and the **1626 Grablink Full XR** models. If you want to operate it with a **1623 Grablink DualBase** model, the MC_Connector MultiCam parameter has to be changed according to the sample program comments.

GrablinkSnapshotTrigger

Windows C/C++ C# 32-/64-bit

This is a simple application demonstrating the MultiCam **SNAPSHOT** acquisition mode on a Grablink board. The program performs one frame acquisition and displays it each time a hardware or software trigger event occurs.



NOTE

The sample code is written for the **1624 Grablink Base**, **1623 Grablink DualBase**, **1622 Grablink Full** and the **1626 Grablink Full XR** models. For any other Grablink board model, the **TrigCtl** parameter has to be updated according to the sample program comments.

grablink_snapshot_trigger

Linux C/C++ 32-/64-bit SDL

This is a simple SDL based application demonstrating the MultiCam **SNAPSHOT** acquisition mode using a Grablink board. The program performs one frame acquisition and displays it each time a hardware or software trigger event occurs.



NOTE

The sample code is written for the **1624 Grablink Base**, **1623 Grablink DualBase**, **1622 Grablink Full** and the **1626 Grablink Full XR** models. For any other Grablink board model, the **TrigCtl** parameter has to be updated according to the sample program comments.

GrablinkHfr

Windows C/C++ 32-/64-bit

This is a simple application demonstrating the MultiCam **HFR** acquisition mode on a Grablink board. The program performs continuous image acquisitions and display.

GrablinkHfrTrigger

Windows C/C++ 32-/64-bit

This is a simple application demonstrating the MultiCam **HFR** acquisition mode on a Grablink board. The program performs one frame acquisition and displays it each time a hardware or software trigger event occurs.

GrablinkWeb

Windows C/C++ 32-/64-bit

This is a simple application demonstrating the MultiCam **WEB** acquisition mode on a Grablink board. The program performs a continuous web acquisition and display.

grablink_web

Linux C/C++ 32-/64-bit SDL

This is a simple SDL based application demonstrating the MultiCam **WEB** acquisition mode on a Grablink board. The program performs continuous web acquisition and display.

GrablinkPageTrigger

Windows C/C++ 32-/64-bit

This is a simple application demonstrating the MultiCam **PAGE** acquisition mode on a Grablink board. The program performs one page acquisition and displays it each time a hardware or software trigger event occurs.

GrablinkLongPageTrigger

Windows C/C++ 32-/64-bit

This is a simple application demonstrating the MultiCam **LONGPAGE** acquisition mode on a Grablink board. The program performs one **LONGPAGE** acquisition and displays it each time a hardware or software trigger event occurs.

PlanarRGB

Windows C/C++ 32-/64-bit

This is a simple application showing the planar RGB management. The application performs image acquisition and display.

GrablinkDualFull

Windows C/C++ 32-/64-bit

This application demonstrates video acquisition using an AVT Bonito-CL-400B camera connected to 2 Grablink Full boards.

GrablinkMultiBase

Windows C/C++ C# 32-/64-bit

This application demonstrates synchronized line-scan video acquisition with image stitching from several Camera Link Base line-scan cameras connected to one or several Grablink boards.

NEW GrablinkPipelineController

Windows C/C++ 32-/64-bit

This application demonstrates the *Pipeline Controller* in PAGE Acquisition Mode on a Grablink board, with a hardware page trigger connected to the IIN2 input and a motion encoder connected to the IIN1 input.

GrablinkSerialCommunication

Windows C/C++ C# 32-/64-bit

This is a simple application demonstrating Camera Link serial communication through the clseremc library on a Grablink board.

GrablinkIoPorts

Windows C# 32-/64-bit

A simple graphical application showing usage of **1624 Grablink Base**, **1623 Grablink DualBase**, **1622 Grablink Full** and **1626 Grablink Full XR** I/O lines through the MultiCam Board object.

terminal

Linux C/C++ 32-/64-bit

This is a console application demonstrating the serial communication with Grablink boards using the clseremc Camera Link library.

grablink-cuda

Windows Linux C/C++ 64-bit OpenGL nVidia CUDA

This sample illustrates interoperability of a Grablink board, OpenGL and CUDA:

- Acquisition of 8-bit monochrome buffers using a Grablink board
- Basic processing with CUDA (Inverse 8-bit luminance)
- Rendering with OpenGL (Rotate with click and drag)

See README.txt in the sample program folder for more details.

2. Domino Sample programs

Sample programs for Domino products

DominoSnapshot

Windows C/C++ C# VB 6.0 VB.NET 32-/64-bit

This is a simple application demonstrating the MultiCam **Snapshot acquisition mode** using a Domino board. The program performs continuous image acquisitions and display.

DominoSnapshotTrigger

Windows C/C++ C# 32-/64-bit

This is a simple application demonstrating the MultiCam **Snapshot acquisition mode** using a Domino board. Each time a hardware or software trigger event occurs, the program performs one frame acquisition and displays the image.

domino_snapshot_trigger

Linux C/C++ 32-/64-bit SDL

This is a simple SDL-based application demonstrating the MultiCam Snapshot acquisition mode using a Domino board. The program performs one frame acquisition and displays it each time a hardware or software trigger event occurs.

3. Pico Sample Programs

Sample programs for Pico products

PicoVideo

Windows C/C++ C# VB 6.0 VB.NET 32-/64-bit

This is a simple application demonstrating the MultiCam **Video acquisition mode** using a Pico board. The program performs continuous image acquisition and display.

pico_video

Linux C/C++ 32-/64-bit SDL

This is a simple SDL based application that acquires and displays live images using the first Pico board detected by MultiCam.

PicoVideoTrigger

Windows C/C++ C# 32-/64-bit

This is a simple application demonstrating the MultiCam **Video acquisition mode** using a Pico board. Each time a hardware or software trigger event occurs, the program performs an image sequence acquisition and display.

PicoDirectShow

Windows C/C++ 32-bit

This is a simple application demonstrating video acquisition and recording using MultiCam Microsoft DirectShow filters. The program performs continuous image acquisition and display while images are recorded in an AVI file. In order to compile this sample program, the Microsoft DirectShow SDK needs to be installed and the strmbase.lib (Microsoft DirectShow library) needs to be built. Please refer to Microsoft's website and the product documentation for further information on the Microsoft DirectShow SDK.

The ffdshow codec needs to be installed to perform any image recording. This sample has been tested with the ffdshow code versions 2033 and 3476.

4. General Sample Programs

Sample programs for all MultiCam products

MulticamAdvancedWaitEvent

Windows C/C++ C# 32-/64-bit

A simple application demonstrating the MultiCam **Snapshot acquisition mode** using event driven signaling instead of callback signaling. The program performs a continuous image acquisition and display.



NOTE

This sample was written for Grablink series but can easily be converted to be used with any other board series.

MulticamAdvancedWaitSignal

Windows C/C++ C# 32-/64-bit

A simple application demonstrating the MultiCam **Snapshot acquisition mode** using the McWaitSignal function instead of the callback signaling method. The program performs a continuous image acquisition and display.



NOTE

This sample was written for Grablink series but can easily be converted to be used with any other board series.

multicam_advanced_waitsignal

Linux C/C++ 32-/64-bit SDL

This is a simple SDL based application demonstrating the MultiCam Snapshot acquisition mode using the McWaitSignal function instead of the callback signaling method. The program performs a continuous image acquisition and display.



NOTE

This sample was written for Grablink series but can easily be converted to be used with any other board series.

Testlo

Windows C/C++ C# 32-/64-bit

A simple console application making usage of I/O lines through the MultiCam Board object.



NOTE

The C# version of this sample program only supports **1624 Grablink Base**, **1623 Grablink DualBase**, **1622 Grablink Full** and **1626 Grablink Full XR** but the code can be easily adapted to other boards.

io_test

Linux C/C++ 32-/64-bit

A simple console application demonstrating the usage of I/O lines with the MultiCam Board object.