

# **Installation Instructions**

# **Desk-top USB 3.0 HD Frame Grabber**



This manual describes how to install Desk-top USB 3.0 HD Frame Grabber

#### Before you start

- Make sure that your PC meets the frame grabber system requirements.
- Do not connect your frame grabber to PC before installing the drivers!
- "Administrator Account" or "Administrator privileges" are required to install the software
- It is essential to run the latest USB 3.0 drivers on your PC. Optilia's recommended PC's are equipped with Intel® USB 3.0 eXtensible Host Controller the up-to-date driver installations files can be found <u>Intel's Download Centre</u>.
   Download and install the latest USB 3.0 drivers.

#### Installing the software and drivers

 Install DesktopVideo\_9.6.x.msi under Intensity Pro folder from the supplied CD. Click Next and follow the on screen instructions.



2. The drivers will now be installed on your system. A number of alerts will appear:
"Do you want to allow the following program to install software on this computer?"
"Would you like to install this device software?" Click Yes/Install to continue.



3. Restart your after installing the drivers have finalised.

# Connecting HD camera to frame grabber

- 4. Connect component Y/Pb/Pr video cables (green, blue, red) of the HD camera to the Y/Pb/Pr input of the frame grabber respectively.
- 5. Make sure that HD camera is connected to the power and switched on.
- 6. If you want to send the live image to external monitor while working with Opti*P*ix, connect HDMI output or Y/Pb/Pr output of the frame grabber to external monitor. Cables for direct monitoring are not provided with the frame grabber!
- Connect provided blue USB 3.0 cable to frame grabber and to an available USB
   3.0 port marked with *SS* → logo.
- 8. At the first connection Windows will detect the frame grabber and install the drivers automatically.



Connection scheme for frame grabber

### Configuring the frame grabber

- 9. Open "Black Magic Design Control Panel" from the Windows Control Panel.
- 10. To frame grabber to function properly, the input format of the frame grabber and output format of the HD camera must be the same. Default output format of Optilia HD Cameras:
  - HD 1080i 59.94 for W10x-HD
  - HD 1080i 50 for W20x-HD (EU),
  - HD 1080i 59.94 for W20x-HD (US),
  - HD 720p 50 for M20x-HD (EU)
  - HD 720p 60 for M20x-HD (US)

To check the output format of the HD camera or changing the output format, please refer to the "Optilia HD Camera Control Software Manual".

- 11. Set Output : All Outputs Active
- 12. Set Input : Component Video & Analog RCA Audio
- 13. Set Default Video Standard as : Same output format as the HD Camera

Set	ttings for your Intensity Shuttle
Settings Video Levels Audio Levels	
Set output:	All Outputs Active
	For video and audio output connections
Set input:	Component Video & Analog RCA Audio 🛛 🔻
	For video and audio capture
Use video setup in NTSC:	At 7.5 IRE for use in the USA
	At 0.0 IRE for use in Japan
	Remove field jitter when video is paused
Set default video standard as:	HD 1080i 59.94
Select output processing:	Off 🗸
	When playing back to video outputs
Select input processing:	off
	When capturing from video inputs

14. Click <u>Apply</u> and <u>OK</u>.

### Selecting the frame grabber in Opti*P*ix

- 15. Run Opti*P*ix.
- 16. Click Device->Input Device or icon and select "**Blackmagic WDM Capture**". The live image should be visible in Opti*P*ix.

💿 Input Device 🛛 🔋	
Device:	
Blackmagic WDM Capture	\$
	el

The input format of the frame grabber can also be changed in Opti*P*ix if necessary.

- Click Device->Device Properties or 🖗 icon.
- Click Video Format Tab.
- Select the input format (Must be same output format of the HD Camera!).
- Click <u>Apply</u> and <u>OK</u>.

Properties 🗙
Audio Format Video Format
Video Format
HD 1080i 59.94 - 8 bit 4:2:2 YUV
OK Cancel Apply

• Press F12 on your keyboard or select "Blackmagic WDM Capture" from the Device->Input Device again to restart the camera. The live image should be visible in OptiPix.

### **Common issues and solutions**

- Black Magic Control panel is greyed out and settings cannot be changed.
   Unplug the Frame Grabber and connect to another available USB port. If the problem stays, re-install the drivers.
- Black Magic Control Panel settings changed after restarting the PC.
   Install the latest USB 3.0 drivers from Intel. If problem persists follow up the power off/on sequence as follows:

#### Power-off sequence

- Turn-off the computer.
- Remove the USB3.0 Cable from the Frame Grabber side.

#### Power-on sequence

-Turn-on the computer and wait until Windows starts completely and desktop is visible.

-Plug the USB3.0 cable to frame grabber.

-Start OptiPix.

• Live images freezes in OptiPix

Connect the PC always to the power. Disable any power saving options.

# **Getting Help**

Please check first F.A.Q and Support Documents pages in Optilia homepage. It is recommended to go through the following checklist before contacting your local Optilia representative.

- ✓ Latest Opti*P*ix and HD Frame grabber drivers are installed (Available on <u>www.optilia.eu</u>).
- $\checkmark~$  HD camera is switched on and cables are connected correctly.
- ✓ Frame grabber input source is correct in Black Magic Control Panel.
- Frame grabber input format is same with the HD Camera, in Black Magic Control Panel.
- ✓ Black Magic WDM is selected as input in Opt*iP*ix.

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