YUAN

PD5A0 HDV

User Manual

YUAN

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1. PRODUCT INTRODUCTION

1.1. Product Brief

PD5A0 HDV is a high-quality, high-performance capture device which is specially designed for high-definition video capture applications. It supports up to 1 channel of high-definition, 1080p30 video from HDMI or VGA or CVBS or S-video or YPbPr video source and 1 x HDMI embedded audio or a pair of RCA audio source. With hardware support, PD5A0 HDV can record live video from high-definition signal sources into H.264 files via USB 2.0.

1.2. Specfication

Model	PD5A0 HDV
Max. FPS	1920×1080p@60/50fps in → 1920×1080p@30/25fps out
Recording Mode	Hardware Compression, Real-Time Mode
Product photo	
Dimension	L:29.4mm x W:65.7mm x H:14mm
Interface	USB 2.0
Video Input	1 × HDMI
Optional Video Input	1 × DVI-I, 1 × CVBS , 1 ×S-video, 1 ×YPbPr, 1 ×VGA
Display Video Format	YV12,NV12,YUY2,RGB24,RGB32
Recording Video Format	H.264 (Hardware Compression)
Recording Video Resolution	1920×1080p@30/25/24fps 1920×1080i@60/50fps 1280×720p@60/50fps 1280×1024p@60fps 1280×960p@60fps 1024×768p@60fps 800×600p@60fps 640×480p@60fps 720×480p@60fps 720×576p@50fps 720×480i@60fps 720×576i@50fps
Audio Input	1 × HDMI Embedded audio A pair of RCA audio connector(Through optional AV

	cable)
Audio Format	Stereo / 16-bit / 32000 ~ 48000Hz
Multiple Cards	∞
SDK	VC++ / C# / .NET / VB / V4L2

2. HARDWARE INSTALLATION

2.1. Package Contents

Item	Amount
PD5A0 HDV	1
USB cable	1(Option)
HDMI cable	1(Option)
YPbPr breakout cable	1(Option)
VGA breakout cable	1(Option)
AV/S breakout cable	1(Option)

2.2. Connection Diagram

Figure below is the connection diagram for supported signal and interface.

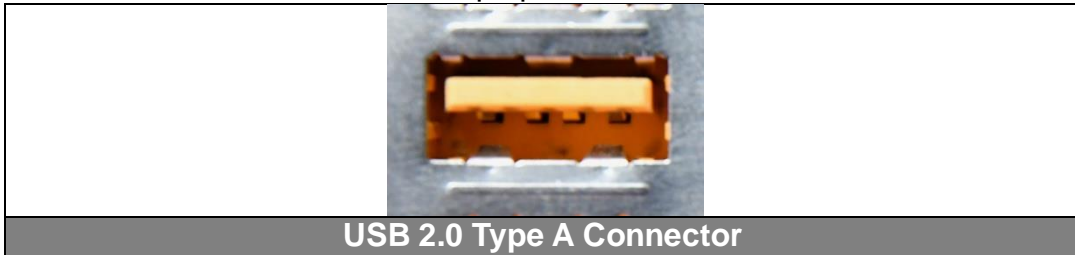**Signal Connection diagram**
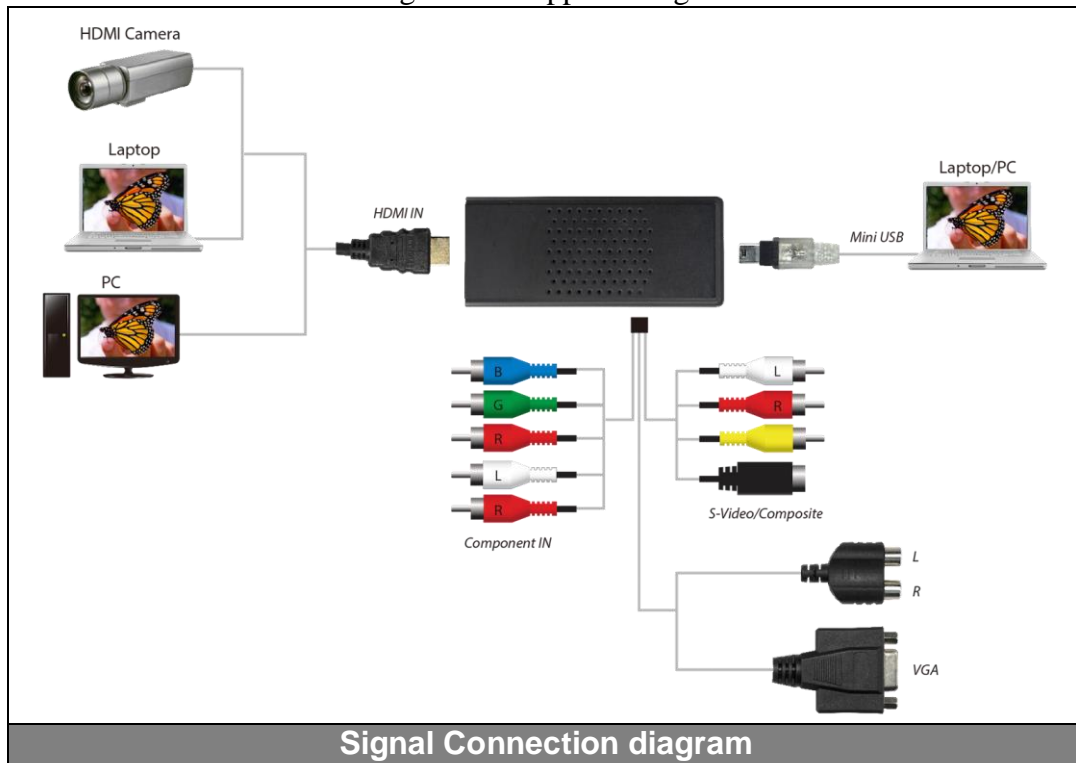
2.3. Precaution

Before proceed, make sure touch a safely grounded object or metal object before touching the device.

Wrist strap
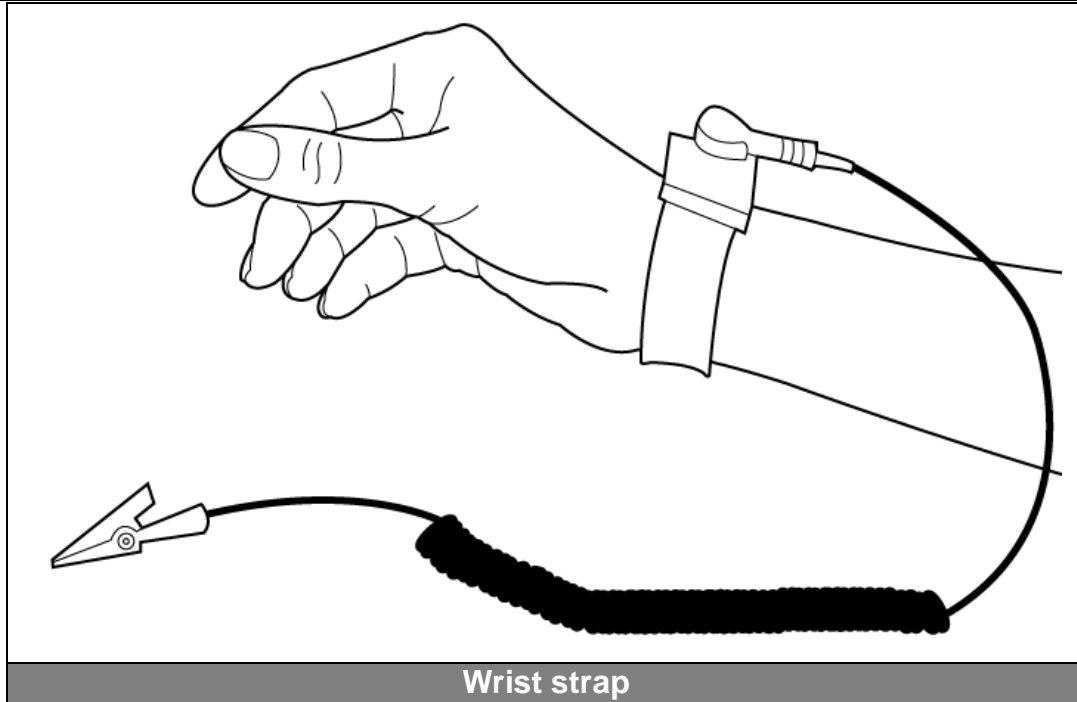
Please follow below chapter for installation operations

2.4. USB 2.0 Dongle

- Connect USB2.0 cable to PC/Laptop

USB 2.0 Type A Connector

- Connect signal source

3. SOFTWARE INSTALLATION (Standard device)

3.1. Support OS

Windows based system	Windows XP	Support
	Windows Vista	Support
	Windows 7	Support
	Windows 8/8.1	Support
	Windows 10	Support
Linux based system	Linux 2.6.14 or Higher	Support

3.2. Driver Installation

After install the device and reboot the PC/notebook, the "Windows Found New Hardware Wizard" will appear and detect the device. Please click "Cancel" to exit the Wizard, and implement installation program to install the device driver and application.

- Please click on the driver and follow the instruction to start the installation.
- While the installation is completed, user may check the device driver is installed correctly by following steps
  - Start
  - Control Panel
  - System
  - Device Manager
  - And user can find device from the device manager dialog (see below figure, device number will different by channel numbers).

▲ Sound, video and game controllers 　　AMD High Definition Audio Device 　　Bluetooth Hands-free Audio 　　MZ0380 PCI 　　NVIDIA Virtual Audio Device (Wave Extensible) (WDM) 　　QP0204 USB 　　Realtek High Definition Audio ▷ 　System devices
PD5A0 Series