

Video Data Converter



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COMPACT • PORTABLE • RUGGED - ANALOG TO DIGITAL VIDEO CONVERSION

The Smartronix Video Data Converter (VDC), originally designed for use with UAV ground control units, is ideal for any video capture application requiring a compact, portable, rugged design. The versatile VDC converts composite analog inputs into digital formats, interfacing to any computer with a USB connection. The unit supports 30 frames per second at 720x480 resolution. For applications requiring another COM port, the VDC also contains a USB to serial converter supporting up to 250kbps data transfer rates.

VDC CAPABILITIES

- ▶ Transfer AV devices such as V8, VHS, Hi8 to PC
- ▶ Converts analog video into digital formats
- ▶ High quality real-time digital recording in MPEG 4/2/1
- ▶ Digital video MPEG editing
- ▶ Capture still images in BMP & JPEG
- ▶ DVD/VCD/SVCD direct burning
 - Supports USB 1.1 and 2.0
 - Video Auto-Adjust Compression Ratio
 - MPEG Encoder - Output formats MPEG 4/2/1 & AVI
 - MPEG editor:
 - Save edited digital videos into MPEG 2/1, AVI compressed AVI, DV-AVI, and WMV (windows media) format
 - Burning digital videos into DVD/VCD/SVCD formats
 - Video Inputs:
 - Composite video input



USB SERIAL CONVERTER

- ▶ Supports USB 1.1 and USB 2.0
- ▶ Supports 250kbps data transfer rate

DIMENSIONS



Specifications	Minimum	Maximum
PC Interface	Supports USB 1.1 and 2.0	
Video Channels	1	
Video Support	NTSC / PAL	
Video Interface	Composite	
Video Capture Formats	MPEG 1, 2, and 4	
Video Rate	Up to 30 fps	
Video Resolution	320x240 (USB 1.1)	720x480 (USB 2.0)
Video Pipe	USB 2.0 Isochronous up to 24 Mb/sec	
Video Compression	Auto Adjust for USB 1.1	
Serial Channels	1	
Serial Interface	Full Duplex Three Wire: Rx, Tx, Gnd	
Serial Baud Rate	75 bps	250k bps
Unit Connector, Data	Lemo EGG.1B.304	
Unit Connector, User	MS3112E12-10S	
Unit Weight	7.8 ozs	
Unit Operating Temperature	-20 C	+65 C
Unit Power	Bus Powered by USB	
Cable Connector, Data	Lemo FGG.1B.304	
Cable Connector, PC	USB Type A Male	
Cable Length	2 feet	

User Connector PinOut	MS3112E12-10S
Video Signal	A
Video Ground	B
RS232 TX	E
RS232 RX	F
RS232 Gnd	H

Data Connector PinOut	EGG.1B.304
USB +5vdc	1
USB Data -	2
USB Data +	3
USB Gnd	4

The specifications in this publication are believed to be accurate and reliable. However, it is the responsibility of the user to determine the suitability of the Smartronix product for a specific application.