4K to USB3 interface board FOR SONY FCB-ER/ES range





The new compact TWIGA 4K to USB3 interface board is a high-performance video capture module.

It allows you to capture uncompressed video stream from Sony 4K camera blocks and transmit it over a single USB3 cable. A simultaneous HDMI output is also available to display the 4K video on a monitor.

TWIGA 4K to USB3 supports up to 3840×2160p@30fps video resolution.



FEATURES

- o Uncompressed 4K video stream
- o Video resolution up to 2160p30
- o USB Video Class (UVC) compliant

o Communication

- USB CDC (COM port / tty)
- o VISCA camera control via local UART
- o GPIOs for keypad connection
- o Supports Windows and Linux OS
- o HDMI 2.0 output
- o HDMI loop-through interface
- o Camera external power supply 6V-12VDC *

*Refer to camera technical manual for max power supply input

Plug & Play 4K to USB3 solution



Twiga 4K to USB3 interface board provides uncompressed UVC compliant video stream. A simple USB3 cable is enough to power, to control and to stream 4K on most devices equipped with a USB3 port (single board computers, NVidia platforms or PC using Windows or Linux OS).

Simultaneous HDMI video output

Twiga 4K to USB3 interface board enables to get a simultaneous USB & HDMI 4k video stream.

An additional HDMI loop-through interface is also available to send the 4k video signal to other devices without being processed.

Camera control

You can control your camera settings remotely from your computer via the single USB3 cable, or using the local UART. GPIOs for basic camera commands are also available.



Onboard Connectors

			J300	External Power supply
			2	V+
J204	USB3.2		1	GND
SUPERSPEED	0363.2		J200	GPIOs
	CC/*		1	GND
			2	Zoom +
			3	Zoom -
				Focus
			4	Auto/Manual
J202	UART TTL		5	Focus Near
1	GND		6	Focus Far
2	Rx		7	Freeze On/Off
3	Tx			
			J200 :	Sony FCB-ER /ES 4K input
				ONY
J203	HDMI 4k output			Board to Board
наті [°] 2.0			J204	connector
	2.0		Exter	nded functionalities
			J202	External sync
J205 HDMI loop-through			3	VID SYNC
3203			2	TO NOT CONNECT
			- 1	GND
Functions Digital video output		Specifications		
		USB3.2 Gen 1 – UVC compliant		
Camera setting and control GPIOs		VISCA protocol via USB CDC or UART TTL Camera commands		
Digital video output connector		USB3 micro B-type		
Camera power supply HDMI output		USB3 cable or external 6 to 12 VDC HDMI 2.0 type D		
Operating temperature range		0°C to 60°C		
Storage temperature range		-20°C to 60°C		
Regulation Dimensions (mm)		CE EMC compliant, PCB : UL 94 V0 48 (H) x 45 (W) x 18 (D)		
	Dimensions (mm) Weight (g)	24		
		ISB3 Interface Set for Sony FCB-ER/ES came	ra blocks	
P/N		TV80 0099	TV80 0099-L	
Content				
4K USB3 interface board - ref. TV20 0008		√	\checkmark	
30 way USL20-30SS-012-C		\checkmark	 ✓ 	
2 way cable (External power supply) 7 way cable (GPIOs)		✓ ✓	✓	
3 way cable (GPI		✓ ✓		
	anodized bracket	· · · · · · · · · · · · · · · · · · ·		
Screws + spacers		√		



Screws + spacers

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