## **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 <sup>°</sup> 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		$\checkmark$	<ul> <li>✓</li> </ul>	
2 way cable (External power supply) 7 way cable (GPIOs)		✓ ✓	✓	
3 way cable (GPI		✓ ✓		
	anodized bracket	· · · · · · · · · · · · · · · · · · ·		
Screws + spacers		√		



Screws + spacers

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