



4K to USB3 Interface board

Capture. Connect. Control.

The Twiga **4K to USB3** interface board converts the native video signals from 4K zoom block cameras to the USB3 standard delivering **uncompressed 4K video stream**.

Get **USB3 & HDMI 4K simultaneously**, making it ideal for digital inspection, UAVs, and medical applications requiring both real-time display and image processing.

Power, video streaming, and camera control through a **single USB3 cable**, simplifying integration and reducing wiring complexity.

Compatible with Sony's 4K zoom block camera range, including the latest FCB-ER9500 model.



4K to USB3

KEY FEATURES

- Super speed USB 3.2 Gen 1
- Uncompressed 4K video stream
- Video resolution up to 2160p30
- Automatic 4K camera video format detection
- USB Video Class (UVC) compliant
- Communication USB CDC (COM port / tty) and camera control via local UART (VISCA commands)
- Setup and update via UART
- Supports Windows and Linux OS
- HDMI 2.0 output



FUNCTIONS	SPECIFICATIONS
USB3 Digital Video output	USB3.2 Gen 1
USB3 Digital Video output connector	USB3 micro B-type
HDMI Digital Video output	HDMI 2.0
HDMI Digital Video output connector	HDMI D type
Camera control	VISCA protocol via USB CDC or UART TTL
GPIOs	Camera commands
Power supply	USB3 cable (external camera power supply 6 to 12 VDC)
Operating temperature range	0° to 60°C
Storage temperature range	-20° to 60°C
Regulation	CE EMC compliant, PCB: UL 94 V0
Dimensions (mm)	48(H) x 45(W) x 18(D)
Weight	24g

Ordering information

PART NUMBER (P/N)	DESCRIPTION
TV20 0008	4K to USB3 interface board
TV50 0027	Mounting kit - Includes: 30-way USL20-30SS-012-C cable assembly, 2-way cable for external camera power supply, 7-way cable for GPIOs, 3-way cable for UART TTL, right-angle black anodized aluminum bracket, mounting screws & spacers
TV50 0026	Cable kit - Includes: 30-way USL20-30SS-012-C cable assembly, 2-way cable for external camera power supply

Need a custom version ?

We support **tailored solutions** based on your system's layout, connector positions, or special commands. Let's talk about your integration!

About i2S | Twiga

For over 45 years, i2S has been a leading expert in high-quality image capture and processing. In 2023, i2S expanded its expertise by acquiring Twiga, a global specialist in video acquisition, transmission and processing.

Today, i2S partners with customers on complex imaging projects, applying its knowledge across various fields, including industry, heritage digitization, underwater imaging, and health & wellness.