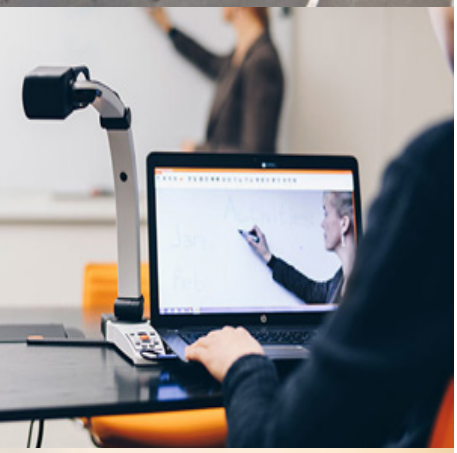












USB3 Neo
Interface board

Capture. Connect. Control.

The Twiga USB3 Neo board is a **plug-and-play** solution that converts the native LVDS video signal from zoom block cameras to USB3 standard, allowing **uncompressed full HD video stream** and **camera control via a single cable.**

This **compact** and **efficient** interface is designed for **seamless integration** into embedded vision systems, industrial applications, and real-time video processing platforms.

The Twiga USB3 Neo enables easy image capture, recording, and viewing on any device equipped with a USB3 port (e.g., single-board computers, NVIDIA platforms, or PCs running Windows or Linux OS)

Compatible with Sony's and Tamron's FHD zoom block camera range, including the latest Sony FCB-EV9520L & Tamron MP3010.

be **visionary**

USB3 Neo



KEY FEATURES

- Super speed USB 3.2 Gen 1
- Uncompressed full HD video stream
- Video resolution up to 1080p60
- Automatic LVDS camera video format detection
- USB Video Class (UVC) compliant
- Communication: USB CDC (COM port / tty) ; camera control via local UART (VISCA commands)
- Setup and update via UART
- Supports Windows and Linux OS

FUNCTIONS	SPECIFICATIONS
Digital video output	USB3.2 Gen 1 - UVC compliant
Digital video output connector	USB3 micro B-type
Camera control	VISCA commands 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°C to 60°C
Regulation	CE EMC compliant, PCB: UL 94 V0
Dimensions (mm)	48(H) x 45(W) x 11(D)
Weight	13g

Ordering information

PART NUMBER (P/N)	DESCRIPTION
TV10 0083	USB3 Neo interface board
TV50 0025	**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 aluminium bracket, 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.

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