

TWIGA provides a compact USB3 interface board for SONY camera blocks. The board converts the native LVDS signal from the camera and transfers the video image to a computer. You will take advantage of new visualisation, processing and transfer solutions by using the network streaming possibilities.



### Features

- ❑ Supports Sony FCB-EH/EV series and SE600
- ❑ LVDS video input from camera
- ❑ USB3.0 (up to 8m)
- ❑ USB Device class (UVC)
- ❑ Automatic Sony camera recognition
- ❑ Up to 1080p30 digital video output
- ❑ Y, Pb, Pr 75 ohms, 1V analog video output
- ❑ Board and Camera management by micro switch
- ❑ Power supply 5V for SE600, 9V (others)
- ❑ Tiny module size 48mm x 45mm x 11mm

### Video output from HD to USB3.0

#### Facility and flexibility

Only one USB3 cable, with a length up to 8 meters, allows to power the camera, to control it and collect the video stream up to 1080p30 format. This enables easy implementation of image capture solutions on most devices with a USB3.0 port.

### Connector add-on

You can find a specific connector on the back of the interface where you can plug in any **add-on boards** to add your own new functions.

### Display video: UVC 1.1 and DirectShow compatibility



The drivers on the camera are compatible with UVC v1.1 (USB Video Class). A camera connected with Twiga TV10 0029 is recognized by Windows and Linux operating system as a High Definition Webcam. This allows to directly use standard softwares for image capturing and viewing (VLC, Amcap, VirtualDub...), image processing, streaming (Skype), or application programming using the DirectShow library.

### Applications

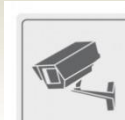
There are many applications which use a PC/camera USB3.0 connection:



➤ Medical imaging



➤ Traffic  
➤ Rail  
➤ Transport



➤ Defence  
➤ Security  
➤ Aerospace



➤ Sport  
➤ Entertainment  
➤ Broadcast

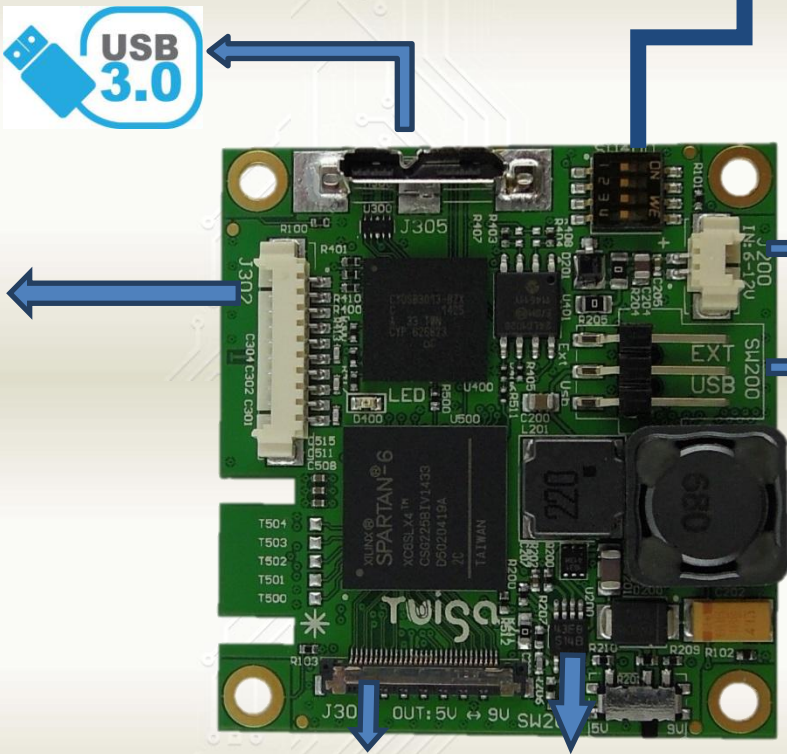
# Onboard Connector

	EV7500 EV7300 EV7100	EV7310	EV5500 EV5300	EH6500 EH6300	EH3400 EH3300	EH3150	SE600
1080p25 1080p30	✓	✓		✓			✓
720p50 720p60	✓	✓	✓	✓	✓	✓	✓
720p25 720p30	✓	✓	✓	✓	✓	✓	✓
HD Analogue Y, Pb, Pr	✓			✓	✓		

SW400	Operating mode	
1	0: RS KEL	1: RS FFC
2	0: CDC	1: UVC
3	NC	NC
4	NC	NC

J200	Optional external power
1	6 to 12 V DC
2	GND

J302	HD analog video output
1	Y
2	GND
3	Pb
4	GND
5	Pr
6	GND
7	GND
8	+3V3
9	Reserved
10	GND



J303	Sony LVDS input
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SW201	Camera supply out
1	5V (SE600)
2	9V

SW200	Power supply mode
1	External
2	USB

Functions	Specifications
DIGITAL video output	USB3
Analog video output	Y, Pb, Pr 75 ohms, 1V
Camera setting and control	USB3.0 – UVC v.1.1
Digital video out Connector	Micro USB3.0 B-type
Power	Self-supply by USB3.0 or 6 to 12 VDC, 6 W (including camera) <b>5V for SE600</b>
Environmental	0°C to 60°C
Storage	-20°C to 60°C
Regulation	EMC FCC part 15, PCB : UL 94 V0
Dimensions (mm)	48 (H) x 45 (W) x 11 (D)
Weight (g)	17

Product	USB3 Interface module for SONY FCB EV / EH / SE600
Product code	TV80 0031
Content	Interface electronic board - ref. TV10 0029
Digital camera link	USL20-30SS-005-C Cable assembly (J303)
Power input wires	2 ways harness, 200mm long for power connector ( J200 )
Analog HD output wires	10 ways harness, 200mm long for HD analog video connector ( J302 )



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