

HDMI 4K INTERFACE BOARD

FOR SONY FCB-ER8300 4K camera



- TWIGA offers a compact HDMI 4K interface board for SONY FCB ER8300 cameras.

The board transmits and improves the signal of the 4K camera to provide an optimum image quality. All camera resolutions and frame rates are supported.

You will take advantage of the full range of HD resolutions this camera offers (up to 2160p29.97)

4K
ULTRA HD

FEATURES

- Supports Sony Eagle FCB-ER8300 – 4k camera input
- HDMI output 1.4b up to 15m/49ft
- Supports 4k resolution – 2160p25/29.97Hz
- Supports 1080p50/59.94, 1080p25/29.97, 720p 50/59.94
- Board and Camera management via RS232 or TTL
- GPIO'S for zoom, freeze and more functions
- Video format selection by DIP switches
- Push buttons for Board Management (Option)
- Power supply for external devices 5V (1.5A max)
- Low power sleep mode for mobile applications

- **Video output from HD to 4K**

The HDMI interface board supports 4K video format in Ultra HD resolution (3840 x 2160) with output flexibility. Depending on your application and configuration, you can select the format you need from HD to 4K.

- **Auxiliary power output**

To maximize the integration solutions of the interface board and use different ways to transmit video (i.e. signal over internet CAT5/CAT6 or fiber optic), our 4K board features an auxiliary 5V/1A output. This can also be used to supply any external devices such as wireless video transmission system (WHDI).

- **Compact size**

Highly compact, and very easy to connect, the Twiga electronic module can be fixed at the top and the bottom of the 4K cameras without hampering the mechanical integration.

TARGET APPLICATIONS



Onboard Connectors

J4 Power OUT	
4	GND
3	GND
2	+5V
1	+5V

J7 Power IN	
1	V+
2	GND

J2 HDMI 4K output	

J6 GPIO	
7	Cde6
6	Cde5
5	Cde4
4	Cde3
3	Cde2
2	Cde1
1	GND

J3 VISCA	
10	Cde_Sys6
9	Cde_Sys5
8	Cde_Sys4
7	Cde_Sys3
6	Cde_Sys2
5	Cde_Sys1
4	TxD
3	RxD
2	GND
1	N/B

J100 FCB-ER8300 TMDs input	

DIP switches		Video format configuration		
1	2	3	4	FCB-ER8300
OFF	OFF	OFF	OFF	External
ON	OFF	OFF	OFF	1080p29.97*
OFF	ON	OFF	OFF	1080p25*
ON	ON	OFF	OFF	1080i59.94
OFF	OFF	ON	OFF	1080i50
ON	OFF	ON	OFF	720p59.94
OFF	ON	ON	OFF	720p50
ON	ON	ON	OFF	720p29.97
OFF	OFF	OFF	ON	ePT 25*
ON	OFF	OFF	ON	2160p29.97
OFF	ON	OFF	ON	2160p25
ON	ON	OFF	ON	1080p50
OFF	OFF	ON	ON	1080p59.94
ON	ON	ON	ON	ePT 29.97*

*Output indicates that the same image is output two times

Functions	Specifications
Digital video output	HDMI 1.4b
SDI output Connector	HDMI Type A
Video format	2160p25/29.97Hz, 1080p50/59.94, 1080p25/29.97, 720p50/59.94
Video format configuration	DIP switches
Camera communication & settings	VISCA – Default: RS232 level – TTL level (Option)
Power supply	6 to 12 VDC, 3.6W (including camera), 0,4W (sleep mode)
Operating temperature range	-5°C to 60°C
Storage temperature range	-20°C to 60°C
Regulation	EMC FCC part 15, PCB : UL 94 V0
Dimensions (mm)	63 (H) x 47 (W) x 17 (D)
P/N – TV10 0051	HDMI 4K interface board for SONY EAGLE / FCB-ER8300
P/N - TV50 0002	Accessory set for TV10 0051
Content	
30 way USL20-30SS-012-C Cable assembly	✓
2 way cable – power supply (J7)	✓
10 way cable (COM- VISCA – J3)	✓
7 way cable (GPIO's – J6)	✓
Screws + spacers	✓

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