HDMI INTERFACE BOARD

FCB-EV, FCB-EH & SE600 range





FEATURES

- o Supports new Sony FCB-EV7520A, FCEB-EV, EH & SE600 range
- o HDMI digital and analogue video output*
- o Up to 1080p60 video resolution output
- o Automatic camera detection
- Video format selection by DIP switches
- o TTL or RS232 VISCA level serial control interface
- o Supply voltage 6V to 9VDC **
- o Auxiliary power output 5VDC, 1 A
- o Size 48mm x 45mm x 17mm
- * Refer to camera technical manual for video standard supported
- **Refer to camera technical manual for max power supply input

Low power consumption

The board has been designed by using components that require low energy consumption. The intensity that circulates in components is reduced. This also reduces the radiated emission for EMC regulation. It confers an electromagnetic behavior suitable with the hardest medical and aeronautical standards.

Key switch local control

Connecting the camera to a computer to drive it is not a requirement. DIP switches available on the board will allow you to select the desired camera video format.

You can also control the main VISCA functions such as zoom, freeze, factory preset that are preprogrammed by connecting a push-buttons keyboard on the board. It is possible to modify this configuration to replace it by your own OEM functions.

Tailor-made image processing functions

The Twiga HDMI interface board is based on a powerful Xilinx FPGA. Graphic overlay and image processing functions can be implemented to the image flow in real time.



Onboard **Connectors**

2

ON ON

ON ON

OFF ON

OFF ON

ON OFF

OFF OFF

ON OFF

ON

OFF ON

OFF ON

ON ON

ON ON

OFF OFF

OFF

ON

OFF

OFF

OFF

ON

OFF

ON

OFF

ON

ON

OFF

3

OFF OFF

4

OFF

ON

ON

ON

ON

ON

OFF

OFF

OFF

OFF

OFF

OFF

OFF

ON

EV Series

External

1080p59.94

1080p50

1080p29.97

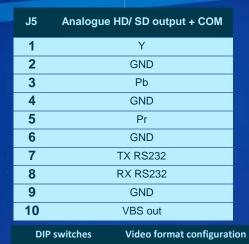
1080p25

1080i59.94

1080i50

720p59/94

720p50





J4	Power IN
1	6 to 12 VDC
2	GND

Status

LED

Dillin.	
1	Firmware loading
2	Decoder initialization OK
3	FPGA loading OK
4	Camera Dialog OK
5	Video format configuration OK
6	FPGA video processing OK
7	Video format modification by switches

EH Series	
External	
1080p60	
1080p30	
720p560	
-	
-	
1080p30	
1080p25	
1080i60	
1080i50	
720p60	
720p50	
720p30	
720p25	



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J6	GPIO's
1	GND
2	Zoom TELE
3	Zoom WIDE
4	Freeze ON / OFF
5	Factory Preset SET / RECALL
6	Function 1
7	Function 2 (bar chart & reticle)

TTL / RS232 Dialog level		
R24 + R26 Soldered	RS232 level	
R25 + R27 Soldered	TTL level	

Functions	Specifications
Digital video output	HDMI 1.3
Analogue video output*	Y, Pb, Pr 75 ohms, 1V - VBS
Digital Video Connector	HDMI Type A
Video output standard configuration	VISCA - Default : RS232 level – TTL level (Option)
Video output configuration	DIP switches or VISCA FCB control software
Auxiliary power output	5V, 1A
Power supply	6 to 12 VDC, 6 W (including camera) - 5V for FCB-SE600
Operating temperature range	0°C to 60°C
Storage temperature range	-20°C to 60°C
Regulation	EMC FCC part 15, PCB : UL 94 V0
Dimensions (mm)	48 (H) x 45 (W) x 17 (D)

HDMI interface set for Sony FCB-EV7520A, FCB-EV, FCB-EH &SE600 series

P/N	TV80 0035	TV80 0035-L	
Content			
HDMI interface board - ref. TV10 0032	✓	✓	201
30 way USL20-30SS-012-C Cable assembly	✓	✓	/05/
24 way FCC cable	✓		24
2 way cable - power supply (J4)	✓	✓	
10 way cable - COM (J5)	√		
7 way harnesses – GPIO'S – (J6)	√		
Right angle black anodized aluminum bracket	✓		F 60
Screws + spacers	✓		



