HDMI 4K External Sync FCB-ER8300 / FCB-ER8350 / FCB-ER8550 & FCB-ES8230





Introducing the latest edition to our 4k interface board range:

The HDMI 4K Ext Sync has been specifically designed for Sony FCB-ER8530, FCB-ER8550 & FCB-ES8230 4k cameras.

Twiga high performance new HDMI 4k module will brings 4k possibility to a variety of application where performance, color image quality, and space is a premium.

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

ULTRA HD

FEATURES

- o Designed for Sony FCB-ER8300, FCB-ER8530, FCB-ER8550
- o Supports External Synchronization input (for FCB ER-8550)
- o Drive HDMI cable up to 20m (65.61ft)
- o Supports 4k video resolution up to 2160p25/29.97Hz
- o Supports Full HD resolution
- o Serial communication TTL or RS232
- o USB micro B for communication & update
- o Camera control through VISCA and GPIO
- o Video format selection by DIP switches
- o 5V 1A switchable power output for external devices
- o Low power sleep mode for mobile applications

• Video output from HD to 4K

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

External Sync capability

Twiga HDMI 4K Ext Sync supports the external synchronization input from Sony FCB ER-8550 camera. It provides benefits to users in a multi-camera environment: broadcast application, image stitching, pulsed lighting sync or thermal/visible image overlapping.

Compact size

Highly compact, and very easy to connect, Twiga HDMI 4K Ext-sync can be rear-mounted on Sony 4K range of cameras without hampering the mechanical integration.



Onboard Connectors

	-			J202	EXT Sync Signal					
				2	GND				1700	
				1	Sync				J700	HD
501	Keyk	board	ļ.	Function		000	100 J200 - 101			و الک
7	Comm	and 5	С	olor bar		000				"~
6	Comm	and 4	Au	ito-Focus		000/				
5	Comm	and 3	Mem	nory Preset		1201 0802	54500 . U300			
4	Comm	and 2	I	Freeze				ri ka		
3	Comm	and 1	Zo	om Wide						
2	Comm	and 0	Zo	oom Tele					J900	USB Sig
1	GN	1D						ueozEI 1700	5	GND
						5600 (* etc.)			4	N/C
SW500								0900	3	D+
		DIP SM	ritch form	at selection					2	Р
1	2			at selection amera format					2 1	D- VBUS
1	2 DFF	DIP sw 3 OFF		at selection amera format External						
1 DFF C		3	4 C	amera format			27			
1 DFF C ON C	OFF	3 OFF	4 C	amera format External	9.97p					
1 DFF C ON C ON C	OFF OFF	3 OFF OFF	4 Ca OFF OFF	amera format External 3840×2160 29	9.97p 25p					
1 OFF C ON C ON C OFF C	OFF OFF ON	3 OFF OFF OFF	4COFFOFFOFF	amera format External 3840×2160 29 3480×2160 2	9.97p 25p 3.98p				1	VBUS
1 OFF C ON C ON C OFF C ON C	OFF OFF ON ON	3 OFF OFF OFF	4 Control Cont	amera format External 3840×2160 29 3480×2160 2 3840×2160 23	9.97p 25p 3.98p 9.94p		232 & system cr		1 	VBUS Power I
1DFFCONCONCOFFCONCDFFC	OFF OFF ON ON ON	3 OFF OFF OFF OFF	4COFFOFFOFFOFF	amera format External 3840×2160 29 3480×2160 23 3840×2160 23 1920×1080 59	9.97p 25p 3.98p 9.94p 50p	10 Command	6 Video Ou	utput enable	1 J800 2	VBUS Power I GND
1DFFCONCOFFCONCDFFCONCOFFCONC	OFF OFF ON ON ON ON	3 OFF OFF OFF OFF ON ON	4C.OFFOFFOFFOFFOFF	amera format External 3840×2160 29 3480×2160 23 3840×2160 23 1920×1080 59 1920×1080 5	9.97p 25p 3.98p 9.94p 50p 9.94i	10 Command (9 Command)	6 Video Ou 7 Low po	utput enable ower mode	1 	VBUS Power I
1 OFF C ON C OFF C ON C OFF C ON C OFF C ON C OFF C OFF C OFF C OFF C	OFF OFF ON ON ON ON ON	3 OFF OFF OFF ON ON ON	4C.OFFOFFOFFOFFOFFOFF	amera format External 3840×2160 29 3480×2160 23 3840×2160 23 1920×1080 59 1920×1080 59 1920×1080 59	9.97p 25p 3.98p 9.94p 50p 9.94i 50i	10Command (9Command (8Command (5 Video Ou 7 Low po 3 Activate	utput enable wer mode Eco mode	1 J800 2	VBUS Power II GND
1 DFF C OON C ODFF C OON C DFFF C OON C DFF C ODFF C ODFF C DFF C	OFF ON ON ON ON ON OFF OFF	3 OFF OFF OFF ON ON ON ON	4 Control Cont	amera format External 3840×2160 29 3480×2160 23 3840×2160 23 1920×1080 59 1920×1080 59 1920×1080 59 1920×1080 59	9.97p 25p 3.98p 9.94p 50p 9.94i 50i 9.97p	10 Command (9 Command (8 Command (7 Command (6 Video Ou 7 Low po 3 Activate 9 Activate	utput enable ower mode Eco mode HDMI gain	1 J800 2	VBUS Power II GND
1 DFF CON OON CON ODFF CON ODFF CON ODFF CON ODFF CON ODFF CON	OFF ON ON ON ON OFF OFF	3 OFF OFF OFF ON ON ON ON	4 C: OFF 0FF 0FF 0FF 0FF 0FF 0FF 0FF 0FF 0FF	amera format External 3840×2160 29 3480×2160 23 1920×1080 59 1920×1080 59 1920×1080 59 1920×1080 59 1920×1080 29	9.97p 25p 3.98p 9.94p 50p 9.94i 50i 9.97p 25p	10 Command 6 9 Command 7 8 Command 8 7 Command 9 6 Command 1	 6 Video OL 7 Low po 3 Activate 9 Activate 0 Activate 	utput enable wer mode Eco mode HDMI gain 5V output	1 J800 2	VBUS Power II GND
1 DFF C ON C ON C ODFF C	OFF ON ON ON ON OFF OFF ON	3 OFF OFF OFF ON ON ON ON ON	4 C: OFF OFF OFF OFF OFF OFF OFF OFF OFF OFF	amera format External 3840×2160 29 3480×2160 23 3840×2160 23 1920×1080 59 1920×1080 59 1920×1080 59 1920×1080 59 1920×1080 29 1920×1080 29	9.97p 25p 3.98p 9.94p 50p 9.94i 50i 50i 9.97p 25p .98p	10 Command 9 Command 8 Command 7 Command 6 Command 5 Command	 6 Video OL 7 Low po 3 Activate 9 Activate 0 Activate 	utput enable ower mode Eco mode HDMI gain	1 J800 2	VBUS Power II GND
1 DFF C ON C ON C DFF C ODFF C	OFF ON ON ON ON ON OFF OFF ON ON	3 OFF OFF OFF ON ON ON ON ON ON OFF	4 C: OFF ON ON ON	amera format External 3840×2160 29 3480×2160 23 3840×2160 23 1920×1080 59 1920×1080 59 1920×1080 59 1920×1080 59 1920×1080 29 1920×1080 29 1920×1080 2 1920×1080 2 1920×1080 2	9.97p 25p 3.98p 9.94p 50p 9.94i 50i 9.97p 25p 25p .98p .94p	10 Command (9 Command (8 Command (7 Command (6 Command (5 Command (4 TxD	 6 Video OL 7 Low po 3 Activate 9 Activate 0 Activate 	utput enable wer mode Eco mode HDMI gain 5V output	1 J800 2	VBUS Power II GND
1 DFF C ON C ON C OPFF C ODFF C ON C DFF C ON C DFF C ON C DFF C ON C DFF C ON C OFF C ON C OPFF C ON C OPFF C	OFF ON ON ON ON OFF OFF ON ON ON ON	3 OFF OFF OFF ON ON ON ON ON ON OFF OFF	4 C: OFF ON ON ON ON	amera format External 3840×2160 29 3480×2160 23 3840×2160 23 1920×1080 59 1920×1080 59 1920×1080 59 1920×1080 29 1920×1080 29 1920×1080 23 1920×1080 23 1920×720 59	9.97p 25p 3.98p 9.94p 50p 9.94i 50i 9.97p 25p 25p 25p .98p .94p	10 Command 9 Command 8 Command 7 Command 6 Command 5 Command	 6 Video OL 7 Low po 3 Activate 9 Activate 0 Activate 	utput enable wer mode Eco mode HDMI gain 5V output	1 J800 2	VBUS Power II GND

Digital video output	HDMI 1.4b
External sync input	Molex 2 pts (J202) or coax connector (option not natively mounted)
Video format	Full HD – 4K resolution up to 3840x2160 29.97p
Video format configuration	DIP switches
Camera communication & settings	VISCA – RS232 / TTL level
Power supply	6 to 12 VDC 0,2W (sleep mode), 4.1W (running mode)* with carmera set in 4k30p
Operating temperature range	-10°C to 50°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 11 (D)
P/N – TV10 0077	HDMI 4K External Sync interface board for SONY ER-range
P/N - TV50 0017	Accessory set for TV10 0077
Content	
30 way USL20-30SS-012-C Cable assembly	\checkmark
10 way cable (COM- VISCA – J500)	\checkmark
2 way cable (Power supply – J800)	\checkmark
7 way cable (keyboard – J501)	\checkmark



twiga-web.com info@twiga-web.com +33 5 32 09 17 24

• 116, route d'Espagne Helios 6, Bal 507 31100 TOULOUSE FRANCE

HDMI4K Ext Sync_23/01/2019