



SPU-10M

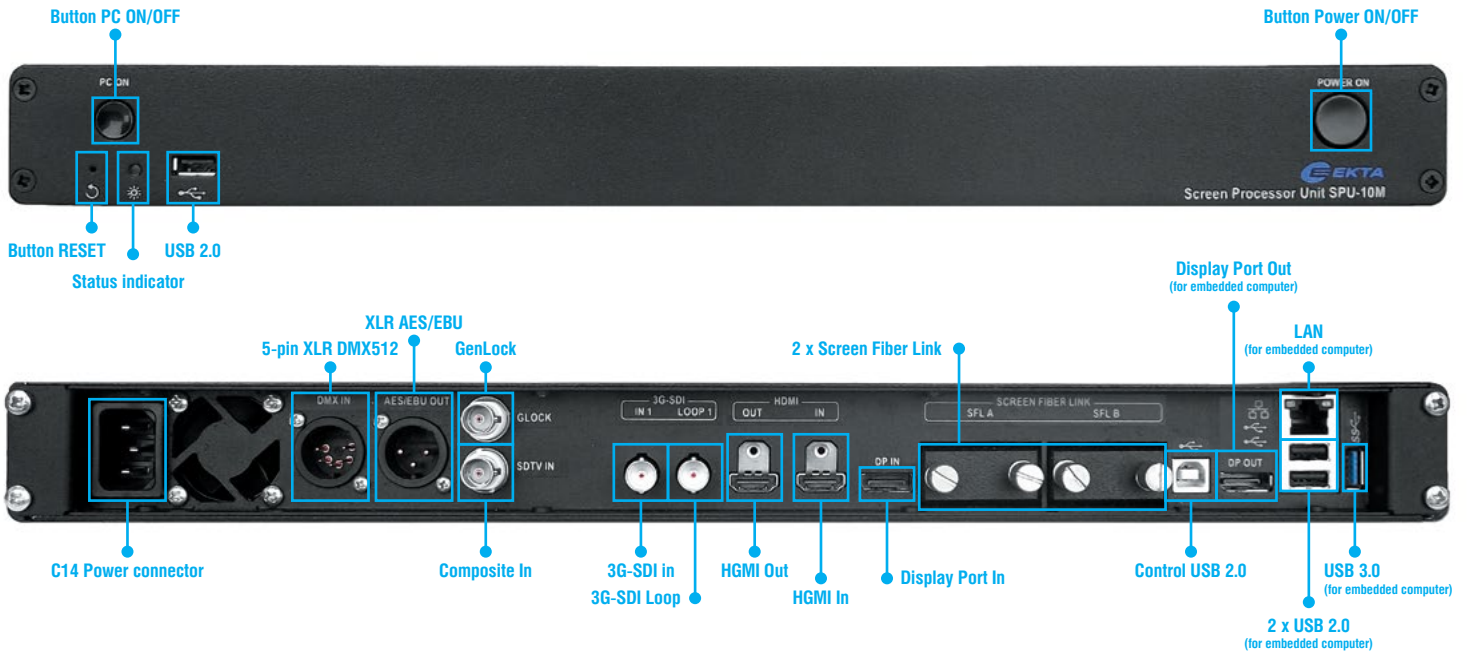
Screen Processor Unit

For the latest in control system flexibility for LED video displays and other video equipment, EKTA's unique design ERMACUltra three-level architecture has revolutionised video processing technology for large-scale LED displays and visualisation equipment.

Combining three different products into a single state-of-the-art solution, the versatile design of ERMACUltra supports all current EKTA display models, including FrameLED Outdoor and Indoor, BladeLED Outdoor and Indoor plus WOWFloor product lines.

FEATURES

- Three of multi-format channel image processing.
- Up- and downscaling, cropping, pixel-to-pixel positioning for each channel
- Color corrections for any input videosignal
- High-quality 10 bit color processing
- Embedded computer based on Quad Core processor running Windows 8
- Ability FullHD video playback
- Intuitive software interface
- Ability to control up to 16 screens of the two fiber links
- 3D ready on board
- Feedback link for:
 - diagnostics module operating parameters (temperature, voltages and current)
 - reading LED parameters measurement tables for LED-to-LED color calibrations
 - reading luminous sensor value for automatic screen brightness control



SPECIFICATIONS	
Front panel	<ul style="list-style-type: none"> 1 x Button POWER ON/OFF1 1 x Button PC ON/OFF embedded computer 1 x Button RESET of embedded computer 1 x Status indicator light 1 x USB 2.0 embedded computer
Rear panel	Video inputs 1 x BNC for external analog synchronization 1 x BNC Composite video standard PAL, NTSC 1 x BNC 3G/HD/SD-SDI, SMPTE 424M, SMPTE 292M, SMPTE 344M, SMPTE 259M supported 1 x HDMI 1.4 resolution up to 3840 x 2160 (WUXGA) at 25/30 Hz, 36 bit/px color depth, 297 MHz TMDS clock 1 x DP 1.1 resolution up to 3840 x 2160 (WUXGA) at 50/60 Hz, 36 bit/px color depth
	Video outputs 1 x HDMI 1.4 resolution 1280 x 1024, 1680 x 1050, 1920x1080, 1920 x 1200 x 60 Hz, 10 bit color depth 1 x BNC 3G/HD/SD-SDI loop IN, SMPTE 424M, SMPTE 292M, SMPTE 344M, SMPTE 259M supported 2 x LC-LC 6.25 Gigabit multimode fiber optic connector for screen link, 8.86 MPx max frame out ³ , 30 bit/px color depth 1 x DP 1.1 resolution up to 2560x1600 (WQXGA) at 50/60 Hz, 36 bit/px color depth for embedded computer
	Audio inputs SDI embedded audio HDMI embedded audio DP embedded audio
	Audio outputs 1 x XLR AES/EBU
	Control interfaces 1 x 5-pin XLR DMX512 1 x USB 2.0 type B 1 x RJ-45 Ethernet for embedded computer 2 x USB 2.0 type A for embedded computer 1 x USB 3.0 type A for embedded computer
Power	1 x C14 connector, 90-264 V AC 47-63 Hz, 50 W max

DIMENSION (LXWXH), CM	WEIGHT	OPERATING TEMPERATURE	STORAGE TEMPERATURE
1RU 44x22.5x4.4	2.5 kg	0 °C (32 °F) to 40 °C (104 °F)	-20 °C (14 °F) to 50 °C (122 °F)

¹ WARNING! Power off is possible only after the completion of the OS
² HDCP optional
³ Table «Output frame»

Screen refresh rate	OUTPUT FRAME, MPx ³		
	Clone mode	Double mode	HDMI+FO
30 Hz	4.43	8.86	-
50 Hz	2.65	5.30	-
60 Hz	2.20	4.41	1920x1200
75 Hz	1.76	3.46	-
100 Hz	1.31	2.56	-
120 Hz	1.09	2.05	-