



# Epson EMP-83H Multimedia Projectors Specification Sheet

## Multifunction, Reliability & Affordable Performance

<b>PRODUCT TYPE</b>	Entry Level Multimedia Projectors	
<b>PRODUCT NAME</b>	EMP-83H	
<b>PRODUCT CODE</b>	V11H303053	
<b>PROJECTION SYSTEM</b>	RGB Liquid Crystal Shutter Projection System	
<b>PROJECTION METHOD</b>	Front / Rear / Ceiling Mount	
<b>SPECIFICATION OF MAIN PARTS</b>		
<b>LCD</b>	Size	0.63 inches with MLA
	Driving method	Poly-Silicon TFT Active Matrix
	Pixel number	786,432 pixels (1024 x 768) x 3
	Native resolution	XGA
	Aspect ratio	4:3
	Pixel arrangement	Stripe
<b>PROJECTION LENS</b>	Refresh Rate	50Hz-60Hz
	Type	Manual: zoom / focus
	F-number	1.6
	Focal length	18.4mm - 22.12mm
<b>LAMP</b>	Zoom ratio	1.0 - 1.2
	Type	170W UHE E-TORL
	Life	4000Hr ( Low Brightness )# 3000Hr ( High Brightness )#
<b>OPTICAL SYSTEM</b>	Dichroic Mirror Separation & Prism combine method	
<b>SCREEN SIZE (PROJECTED DISTANCE)</b>	30 to 300 inch [1.19 to 12.12m] (Zoom: Tele), 30 to 300 inch [0.87 to 8.97m] (Zoom: Wide)	
<b>BRIGHTNESS</b>		
<b>CONTRAST</b>	High Brightness Mode	2200 ANSI lumens (Colour mode: Game, Zoom: Wide)
	Low Brightness Mode	1760 ANSI lumens (Colour mode: Game, Zoom: Wide)
<b>BRIGHTNESS UNIFORMITY</b>	400:1	
<b>COLOUR REPRODUCTIVITY</b>	90% (Typ.)	
<b>VIDEO QUALITY</b>	Full colour (16.77 million colours) 3D Y/C separation (NTSC only), Motion compensated Interface-Progressive conversion (3-2 film detection only)	
<b>SOUND OUTPUT</b>	10W monaural	
<b>EFFECTIVE SCANNING FREQUENCY RANGE (ANALOG)</b>		
<b>PIXEL CLOCK</b>	13.5MHz to 162MHz up to UXGA 60Hz	
<b>HORIZONTAL</b>	15KHz to 92KHz	
<b>VERTICAL</b>	50Hz to 85Hz	
<b>ADJUSTMENT FUNCTION</b>		
<b>PROJECTOR / REMOTE CONTROL</b>	Brightness / Contrast / Tint / Saturation / Sharpness / Input Signal Colour Temperature / Tracking / Position / Sharpness / Volume etc... /	
<b>FOOT ADJUSTER</b>	Front-centre	
<b>TILT ANGLE</b>	0 to 11 degrees	
<b>KEystone CORRECTION</b>	Vertical: +/- 30 degrees	
<b>PASSWORD PROTECTED FUNCTION (security function)</b>	Implemented	
<b>ANALOGUE RGB I/O</b>		
<b>DISPLAY PERFORMANCE</b>	Native	1024 x 768 pixels
<b>INPUT SIGNAL</b>	Signal type	Separate signal
	Video signal	Analogue (0.7V p-p, 75ohm / Mac 0.714Vp-p, 75ohm)
<b>INPUT TERMINAL</b>	Sync. signal	Separate (positive & negative, bi-polarity 2-5 Vpp) / Composite (positive & negative, bi-polarity 2-5Vpp) / Sync-on-green (negative, 0.3Vpp)
	Audio signal	500mVrms / 47k-ohm
<b>OUTPUT SIGNAL</b>	Video	D-sub 15pin x 1 Blue moulding
	Audio	Stereo mini jack x 2
<b>OUTPUT TERMINAL</b>	Video	Analog (0.7Vpp, 75ohm / Mac 0.714Vpp, 75ohm)
	Sync.	Separate (positive & negative, TTL) / Composite (positive & negative, TTL) / Sync. on green (negative 0.2 - 0.4Vpp)

<b>VIDEO I/O</b>		
<b>DISPLAY PERFORMANCE</b>		NTSC: 560 line PAL: 560 lines (Depends on observation of the multi burst pattern)
<b>INPUT SIGNAL</b>	Video standard	NTSC / NTSC4.43 / PAL / M-PAL / N-PAL / PAL60 / SECAM
	Video signal	Composite Video (1.0Vpp / Sync. negative, 75ohm) / S-Video (Luminous 0.714Vpp, Chrominous 0.286Vpp, 75ohm) / Component Video (Analog Y level 0.75V 75ohm / Cr Cb level +/-0.35V 75ohm / sync. negative 0.3V or 3-state +/-0.3V on Y) / Video-RGB (0.7Vpp, 75ohm / Mac 0.714Vpp, 75ohm)
<b>INPUT TERMINAL</b>	Audio signal	500mVrms / 47k-ohm
	Video	Composite Video: RCA (Yellow) x1 S-Video: Mini DIN Component Video: D-sub 15pin Blue moulding
<b>CONTROL I/O</b>	Audio	RCA x 1 (White/Red )
<b>SERIAL I/O</b>	Terminal	D Sub 9 pin x 1
<b>EASY MP</b>	Signal	RS-232C
	Network Interface	RJ45 x 1
<b>FUNCTION</b>		
<b>SOFTWARE</b>	ESC/VP.net	
	E-mail notification	
	SNMP	
	Web control	
	PJ-Link	
<b>OPERATING TEMPERATURE</b>	AMX Device Discovery compatible	
	EMP Monitor (for EPSON IP Link Projector Control Windows) (for Windows)	
<b>COOL-DOWN PERIOD</b>	5°C to 35°C (41°F to 95°F) > (20%-80% Humidity )	
<b>START-UP PERIOD</b>	"Instant Off"	
<b>DIRECT POWER ON</b>	Approx. 5 seconds (warm up 30 seconds)	
<b>DIRECT POWER OFF</b>	Yes	
<b>POWER SUPPLY VOLTAGE</b>	Yes	
<b>POWER CONSUMPTION</b>	100-240V AC±10% 50/60Hz	
<b>EXHAUST DIRECTION</b>	248W/231W (Lamp on) 4.1Ww/5.8W (standby, network off)	
<b>DIMENSION</b>		
<b>EXCLUDE FEET</b>	Side	
<b>MAXIMUM DIMENSION</b>	245(D) x 327(W) x 92(H) mm	
<b>WEIGHT</b>	245(D) x 327(W) x 108(H) mm	
<b>FAN NOISE</b>	Approx. 2.9kg	
<b>HIGH BRIGHTNESS MODE</b>	35dB	
<b>LOW BRIGHTNESS MODE</b>	28dB	
<b>WARRANTY</b>		
<b>STANDARD WARRANTY</b>	3 years* (*excluding lamp)	
* For more information visit <a href="#">Epson Projector Warranty Website</a>		
<b>ACCESSORIES</b>		
<b>POWER CORD</b>	3m	
<b>COMPUTER CABLE</b>	1.8m, D-sub 15pin (Male) - Mini D-sub 15pin (Male)	
<b>REMOTE CONTROL</b>	Included	
<b>PASSWORD PROTECT STICKER</b>	Included	
<b>Epson PROJECTOR SOFTWARE</b>	CD-ROM	
<b>OWNER'S MANUAL</b>	CD-ROM	
<b>PRODUCT OPTIONS</b>		
	<b>Item Code</b>	<b>Description</b>
	V13H010L42	Lamp
	7012083	Ceiling mount with telescopic pole
	7012084	Ceiling mount standard

#Subject to operation and environmental conditions.

### Usage Conditions

Epson products are designed and made to give highly reliable use and long life when used according to its specifications. With any system, product or device used in situations where human life may be involved or at risk, Epson advises that you should take all necessary steps to ensure the suitability of your Epson product for inclusion in your system, and recommends that you include fail-safe procedures and redundancy support or backup equipment in your system, to maintain the maximum safety margin and optimum system reliability. Examples include but are not limited to – do not interfere with any electrical components within the device, do not use items supplied with the product for purposes other than as intended by Epson (ie mains cords, inks, CDs, plastic wrapping) and do not make modifications to the product.