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# Epson EMP-TW2000 Home Theatre Projector Specification Sheet

Unveiling the world's finest real Hi-Defenition Projector. Featuring a new generation of revolutionary Crystal Clear Fine.

<b>PRODUCT TYPE</b>	Home Theatre Projectors
<b>PRODUCT NAME</b>	Epson EMP-TW2000
<b>PRODUCT CODE</b>	V11H262053
<b>PROJECTION SYSTEM</b>	RGB Liquid Crystal Display
<b>PROJECTION METHOD</b>	Front / Rear / Ceiling Mount

## SPECIFICATION OF MAIN PARTS

<b>LCD</b>	Size	0.74 inches wide panel MLA (C2 Fine, D7, 12Bit)
	Driving method	Poly-Silicon TFT Active Matrix
	Native resolution	1080P Full HD (1920 x 1080)
	Pixel number	2073600 pixels (1920 x 1080 pixels) x 3
	Aspect ratio	16:9
	Pixel arrangement	Stripe
	Refresh Rate	50Hz or 60Hz (based on input signal)
<b>PROJECTION LENS</b>	Type	manual: zoom / focus
	F-number	2.0 - 3.17
	Focus length	22.5 - 47.2mm
<b>LAMP</b>	Type	170 W UHE E-TORL Lamp
	Zoom ratio	1.0:2.1
<b>SCREEN SIZE (PROJECTED DISTANCE)</b>	30 to 300 inch (0.87m to 9.03m) (Wide)	
	30 to 300 inch (1.88m to 19.15m) (Tele)	
<b>LENS SHIFT RANGE</b>	Vertical: 96.3% max. (upward & downwards) Horizontal: 47.1% max. (Left and Right)	

## BRIGHTNESS

High Brightness Mode	1600 ANSI lumens
Colour Mode ( Dynamic, Zoom: Wide, Lens shift: V10 / H Centre )	

<b>CONTRAST</b>	50000:1 (Colour Mode: Dynamic, Lamp brightness: Zoom: Wide, Lens shift: Full, Auto iris: On)
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<b>COLOUR PROCESSING</b>	Full 10 bit
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<b>COLOUR REPRODUCTIVITY</b>	Full Colour (10.07 Billion Colours)
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<b>COLOUR SPACE</b>	115% of NTSC
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<b>VIDEO QUALITY</b>	Interlace - Progressive conversion 3D Y/C separation, Noise reduction
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## EFFECTIVE SCANNING FREQUENCY RANGE (Analog/Digital)

<b>PIXEL CLOCK</b>	13.5MHz to 150MHz
<b>HORIZONTAL</b>	15 to 80KHz
<b>VERTICAL</b>	24Hz, 50 to 85Hz

## ADJUSTMENT FUNCTION

<b>PROJECTOR / REMOTE CONTROL</b>	Brightness / Contrast / Tint / Saturation / Input signal etc.
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<b>TILT ANGLE</b>	0 to 2.1 degrees
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<b>KEystone CORRECTION</b>	N/A
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<b>EPSON CINEMA FILTER</b>	Controlled automatically with color mode (ON: Theatre Modes / Natural / x.v colour, OFF: Living Room / Dynamic)
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<b>AUTO IRIS</b>	Controlled automatically adjusting to video source (Available at colour mode except x.v. Colour, User selectable ON/OFF on OSD)
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<b>EPSON SUPER WHITE</b>	Controlled automatically adjusting to video source (Available at Natural/Theatre/Theatre Black 1 and 2; user selectable ON/OFF on OSD)
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<b>2:2 PULL DOWN (1080p/24 fps Capability)</b>	On/Off (Default off, HDMI & Component input only)
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## FAN NOISE

<b>HIGH BRIGHTNESS MODE</b>	32dB (Colour mode: Dynamic Lamp brightness: High)
<b>WHISPER MODE</b>	24dB (Colour mode: Theatre Black 1 and 2)

## ANALOGUE RGB I/O

<b>DISPLAY PERFORMANCE</b>	Native	1125p
	Resize	1280 x 1024 / 1360 x 768 / 1024 x 768 / 800 x 600 / 640 x 480 / 1125p / 1125i / 750p / 625p / 525p / 625i / 525i

<b>INPUT SIGNAL</b>	Signal type	Separate signal
	Video signal	Analog (0.7V p-p, 75 ohm/ Mac0.714Vp-p, 75ohm)
<b>Sync.signal</b>	Separate (positive & negative, bi-polarity 2-5Vpp) / Composite (positive & negative, bi-polarity 2-5Vpp) / Sync-on-green (negative, 0.3Vpp)	

<b>INPUT TERMINAL</b>	Video	Mini D-sub 15 pin x 1 Blue molding
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## HDMI Ver.1.3

<b>DISPLAY PERFORMANCE</b>	Native	1125p
	Video standard	1125p / 1125i / 750p / 625p / 525p / 625i / 525i

<b>Video signal</b>	TMDS (Signal for HDMI)	
<b>Input Terminal</b>	HDMI(V1.3) x 2	

## VIDEO I/O

### COMPONENT INPUT

<b>INPUT SIGNAL</b>	Video standard	1125p / 1125i / 750p / 625p / 525p / 625i / 525i
<b>Video signal</b>	Component Video (Analog Y level 0.7V 75 ohm / Cr Cb level +/-0.35V 75 ohm / sync. negative 0.3V or 3-state +/-0.3V on Y) RCA x 3 (Red / Green / Blue)	

### INPUT TERMINAL

### COMPOSITE / S VIDEO

<b>INPUT SIGNAL</b>	Video standard	NTSC / NTSC4.43 / PAL / M-PAL / N-PAL / PAL60 / SECAM
<b>Video signal</b>	Composite Video (1.0Vpp / Sync.negative, 75 ohm) / S-Video (Luminous 0.714Vpp, Chrominous 0.286Vpp, 75 ohm)	

### INPUT TERMINAL

<b>S-Video</b>	Mini DIN	
<b>Composite Video</b>	RCA (Yellow) x 1	

## CONTROL I/O

<b>SERIAL I/O</b>	I/O terminal	D-sub 9 pin x 1
	I/O signal	RS-232c

### LOCK FUNCTION

Operation Lock & child-lock

### OPERATING TEMPERATURE

5°C to 35 °C (41°F to 95 °F) at 20% ~ 80% Humidity

### DIRECT POWER ON

Yes

### COOL-DOWN PERIOD

Approx 16 seconds

### POWER SUPPLY VOLTAGE

100-240 VAC ±10%, 50/60Hz

### POWER CONSUMPTION

240W (Lamp High), 200W (Lamp Low)

## DIMENSIONS

<b>EXCLUDE FEET</b>	406mm(W) x 310mm(D) x 124mm(H)
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<b>MAXIMUM DIMENSION</b>	406mm(W) x 353mm(D) x 143mm(H)
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<b>WEIGHT</b>	Approx. 5.6kg
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## ACCESSORIES

<b>POWER CORD</b>	3m
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<b>REMOTE CONTROL</b>	Stick type (backlight)
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<b>BATTERY</b>	Alkaline, AA x2 (Included)
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<b>USER'S MANUAL</b>	Included
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<b>LENS CAP</b>	Included
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<b>WARRANTY*</b>	3 years * including lamp
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\* For more information visit [Epson Projector Warranty](#)

## Product Options

Product Code	Item Code	Description
V13H010L39	V13H010L39	Lamp

## 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.