EPSON®

EXCEED YOUR VISION

Epson
EMP **TW20**

Big screen entertainment in your own home

Add a new dimension to watching movies at home with the Epson EMP-TW20. Now you can enjoy films, concerts, sport and more on a big screen.

Enjoy a big image, even in a small room

With Epson you don't need large rooms or a big budget to enjoy big screen entertainment. The small, sleek and stylish Epson EMP-TW20 can project an 80" image to a wall or screen from just 2 metres away. If you do have more room you can sit back and admire images of up to 300".

Because the Epson EMP-TW20 is HD (high definition) compatible, you can connect it to all your existing and future equipment, including:
• TV
• DVD
• Digital camera
• Digital box
• Set top box
• Games console
• Personal computer
• Amplifier
• Stereo

Applications

Play fast action video games on the big screen, create a larger-than-life family photo slide show, get a front row seat at televised concerts, or treat the children to movie theatre sized cartoons.

High quality image even in a light environment

There's no need to draw the curtains to watch your favourite programme. The brightness settings let you enjoy quality images even in broad daylight. Whatever you watch, you're guaranteed natural, bright colours thanks to the exclusive Epson 3LCD technology and Epson Cinema Filter.

3LCD technology achieves brighter, more natural images and smoother, sharper video playback

Combined with a high contrast ratio, it gives crisp, bright, well-defined images. Six built-in selectable settings automatically adjust the picture brightness and contrast levels depending on what you're watching, and all can be accessed via the remote control from the comfort of your armchair.

Discreet and easy to set up

The small, stylish Epson EMP-TW20 is easy to place almost anywhere. It can be off-centre, high up or low down. Place it on a shelf, table or even mount it on the ceiling. Exceptionally quiet to run, the only buzz you'll get is from the action on the screen.

The main features

- 1200 lumens brightness for daylight viewing

- Exclusive Epson Cinema Filter for accurate colours and high contrast ratio

- Striking, 1000:1 contrast for crisp, defined images

- True cinema feel 16:9 widescreen display, 854 x 480 pixels

- Position the projector almost anywhere – even off-centre

- Self-luminous remote control for ease of use in the dark

- Compatible with current and future, high definition technology

Full connectivity at the back of projector

Quiet operation – only 28db in low brightness mode

Horizontal and vertical lens shift for easy adjustment of image

Exclusive Epson E-TORL lamp technology is energy efficient and eliminates light leakage

Epson
EMP TW20

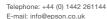|	
Model	Epson EMP-TW20
Projection System	RGB liquid crystal shutter projection system
Projection Method	Front / Rear / Ceiling mount
Specification of Main Parts	
LCD	Size: 0.55-inch wide with MLA (x3); Driving Method: Poly-silicon TFT active matrix; Pixel Number: 409920 dots (854 x 480) x 3; Native Resolution: 480p; Aspect Ratio: 16:9; Pixel Arrangement: Stripe; Refresh Rate: 50Hz - 72Hz
Projection	Type: Manual zoom / focus; F-number: 1.7 - 2.1; Focal Length: 13.7 mm - 20.5 mm; Zoom Ratio: 1 - 1.5; Lens Cover: included
Lamp	Type: 135 W UHE Lamp; Life: 3000 hours (Color mode: Theatre Black 1/ Theatre Black 2) 2000 hours (Color mode: Theatre / Natural/ Living Room/ Dynamic)
Optical System	Dichroic mirror separation & prism combine method
Screen Size (Projected distance)	30" - 300" (0.73 - 7.57m) (Wide 16:9 image) 30" - 300" (1.11 - 11.37m) (Tele 16:9 image)
Lens Shift Range	Vertical: 50% max. (upward), 50% max. (downward) Horizontal: 25% max. (left and right)
Brightness	
High Brightness Mode	1200 ANSI lumens (Colour mode: Dynamic, Zoom: Wide, Lens Shift: Center)
Low Brightness Mode	350 ANSI lumens (Colour mode: Theatre Black 2, Zoom: Wide, Lens shift: Center)
Contrast	1000:1 (Colour mode: Dynamic, Zoom: Tele, Lens shift: Full)
Brightness Uniformity	90%
Colour Reproduction	Full Colour (16.77 million colours)
Sound Output	1W Monaural
Effective Scanning Frequency Range (Analog)	
Pixel Clock	13.5MHz to 110MHz
Horizontal	15kHz to 92kHz
Vertical	50Hz to 85Hz
Adjustment Function	Projector / Remote Control: Keystone / Brightness / Contrast / Tint / Saturation / Sound / Input Signal; Foot Adjuster: 2 feet; Tilt Angle: 0 to 4 degrees; Keystone Correction: Vertical: -30 to +30 degrees; Color Mode: Dynamic/ Living Room/ Natural/ Theatre / Theatre Black 1/ Theatre Black 2; Direct Power On; Auto Aspect Mode; Supported signal: Video, S-video, Component 525i (480i), 525p (480p); High Altitude Mode; Progressive Conversion; User's Logo; Menu Colour; Child-lock; Cinema Filter: Controled automatically with the color modes (ON:Natural/ Theatre / Theatre Black 1/ Theatre Black 2, OFF: Living Room/ Dynamic)
Analog RGB I/O	
Display Performance	Native: none; Resize: XGA (1024 x 768) / SVGA (800 x 600) / VGA (640 x 480)
Input Signal	Signal Type: Separate Signal; Video Signal: Analog (0.7V p-p, 75 ohm/ Mac0.714Vp-p, 75ohm); Sync. Signal: Separate(positive&negative, bi-polarity 2-5Vpp) / Composite(positive&negative, bi-polarity 2-5Vpp) / Sync-on-green(negative, 0.3Vpp) / CVBS(1.0Vpp / Sync.negative, 75ohm); Audio Signal: 500 mVrms / 47 k-ohm
Input Terminal	Video: D-sub 15pin x1 Blue-molding RCA x 4 (Red / Green / Blue / Yellow) (in common with Component Video and Composit Video terminal); Audio: RCA x 2 (White/Red)
Video I/O	
Composit / S Input	
Display Performance	NTSC: 480lines PAL:480lines;
Input Signal	Video Standard: NTSC/ NTSC4.43 / PAL / M-PAL / N-PAL / PAL60 / SECAM; Video Signal: Composite Video (1.0Vpp/ Sync.negative, 75 ohm) / S-Video (Luminous 0.714Vpp, Chrominous 0.286Vpp, 75 ohm); Audio Signal: 500 mVrms / 47 k-ohm
Input Terminal	Video: Composite Video: RCA (Yellow) x 1; S-Video: Mini DIN; Audio: RCA x 2 (in common with Analog RGB)
Component Input	
Display Performance	525i : 480Lines, 625i : 480Lines
Input Signal	Video Standard: 525i / 625i / 525P / 625P YCbCr 750P / 1125i YPbPr; Video Signal: 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) Audio Signal: 500 mVrms / 47 k-ohm
Input Terminal	Video: RCA x 3 (Red / Green / Blue); Audio: RCA x 2 (in common with Analog RGB)
Control I/O	
Serial I/O	I/O Terminal: D-sub 9 pin x 1; I/O Signal: RS-232C
Operating Temperature	5°C to 35 °C <41°F to 95 °F>
Start-up / Cool-down Period	Approx. 8 / 20 seconds
Power Supply Voltage	100-240 VAC ±10% , 50/60Hz
Power Consumption	Lamp On: 190W (Lamp On) / 5.0W (Lamp Off); Power Rating: 100-240 VAC, 50/60Hz, 2.3-1.0A
Dimension (D x W x H)	295 x 373 x 111mm (Exclude Feet) - 295 x 373 x 127mm (Include Feet)
Weight	Approx. 7.8 lbs / 3.5 kg
Fan Noise	Low Brightness Mode: 28 dB (Theatre Black 1 / Theatre Black 2)
Supplied Accessories	Power Cord: Power Cord (1.8 m), RGB SCART Adapter, Self Luminous Remote Control, Manganese AA Battery x2, Rubber Stand, User's Manual Set
Optional Accessories	Spare Lamp: ELPLP33; Air Filter: ELPAF09 (1 sheet x 1 unit = 1 sheet); Soft Carrying Case: ELPKS54
RGB SCART Adapter	SCART(F)⇔4RCA(R/G/B/Y)300mm: ELPKC29
Ceiling Mount	White: ELPMB19
Pipe 600mm	White: ELPFP07
Warranty	UK - 3 year next day on site repair or replace Ireland - 3 year next day on site repair or loan

Full connectivity

S-Video   Audio In
           RCA(LR)
Computer   Video   Control
Mini D-Sub 15 pin RCA (RS-232C)

Component Video

3LCD   E-TORL

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EMPTW20 -1GB - 07/05