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Epson EH-TW8400


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Home Theatre Projectors

Projection perfected with 4K experience

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Overview

KEY FEATURES & BENEFITS

4K PRO-UHD¹ – a new type of 4K home theatre projection technology only from Epson

Advanced 3LCD Projector Design – a true 3-Chip design, 3LCD technology

Amazing Colour Brightness² – 2,600 Lumens colour brightness and 2,600 Lumens white brightness

Wide Colour Gamut – covering 100% DCI-P3 with professional colour accuracy

Dedicated 4K Pixel-Shift Processor¹ – Epson's advanced pixel-shifting resolution-enhancement technology results in an exceptional 4K visual experience

Dedicated HDR Processor – full 10-bit HDR colour processing uses 100% of the HDR source information

Dedicated Digital Imaging Processor – real time full 12-bit analogue-to-digital video processing for smooth tonal transitions

Rich Black Contrast – contrast ratio up to 1,000,000:1 delivers an extraordinary range of colour and detail in both bright and dark scenes

Precision Cinema Lens – designed specifically with a 15 element aspheric glass structure lens for high-definition 4K HDR content

Lens Memory – pre-set up to 10 positions for zoom, focus and lens shift for both standard projection and wide cinema ratios

Powered Lens Shift – lens shift technology enables outstanding installation flexibility with an incredible range of up to $\pm 96.3\%$ on the vertical axis and up to $\pm 47.1\%$ on the horizontal axis

Efficient Cooling System – with noise levels as low as 20 dB, these are among the quietest projectors in the industry

¹ 4K Enhancement Technology (4Ke) shifts each pixel diagonally to double the native panel Full HD (1920x1080) resolution. Resolution is Full HD in 3D Mode.

² Colour brightness (colour light output) in brightest mode, measured by a third-party lab in accordance with IDMS 15.4. Colour brightness will vary depending on usage conditions. Top-selling Epson 3LCD projectors versus top-selling 1-chip DLP projectors based on PMA Research sales data for Dec.2015 through Nov.2016.<

4K PRO UHD

Experience a new type of 4K home theatre projection technology from Epson with proprietary dedicated processors for resolution enhancement¹, HDR, and image processing. 4K PRO-UHD home theatre projectors faithfully display all your favourite content from the classics to the latest blockbusters. This isn't just a new way to watch movies — it's the best way.

¹ 4K Enhancement Technology (4Ke) shifts each pixel diagonally to double Full HD (1920x1080) resolution. Resolution is Full HD in 3D Mode.



3LCD Technology

All Epson projectors are based on 3-chip LCD technology for amazing colour, incredible detail and solid reliability. 3LCD's 3-chip architecture dedicates an entire chip to process each primary colour – red, green and blue, continuously. Unlike single-chip technology that delivers colour sequentially, you get full-time colour. The result is vibrant, realistic images and video all delivered with 3LCD's true-to-life colour.



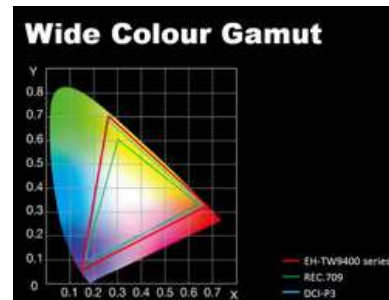
Amazing colour brightness with Epson

Brilliant image quality requires high colour brightness (colour light output). EH-TW8400, powered by 3LCD technology, is capable of producing White Light and Colour Light Output of 2,600 lumens in 4K enhancement resolution, delivering amazing colour brightness.



Wide Colour Space

Enjoy brilliant, colour rich performance. DCI-P3 which is the standard in digital cinema is available in the EH-TW8400, displaying 100% of the colour gamut. This extreme colour performance of DCI-P3 is 50% wider than typical 1-Chip Rec.709 projectors and allows for a truly professional-level of colour accuracy.



Dedicated 4K Enhancement Processor

Advanced 4K enhancement hardware precisely controls three-individual high-definition LCD chips to parallel process up to 12 million pixels of information. This new type of resolution enhancement technology results in a 4K visual experience – surpassing other forms of 4K home theatre projection.

Dedicated HDR Processor

A High Dynamic Range expands the range of colour and contrast that can be reached, resulting in a more realistic and natural image. Epson's full 10-bit HDR colour processing accepts 100% of the HDR source information to faithfully reproduce HDR content for an exceptional visual performance.

SDR(Standard dynamic range)



HDR(High dynamic range)



Dedicated Digital Imaging Processor

Real-time 12 bit analogue to digital video processing ensures smooth tonal transition, while eliminating banding, blocking and other compression artefacts from the final visual performance. The powerful processor in the EH-TW8400 faithfully reproduces the source material the way it was intended to be shown.

8 bit image processing



12 bit image processing



Rich Black Contrast

With Epson's innovative auto iris, the EH-TW8400 home theatre projectors boast exceptional performance with contrast ratios 1,000,000:1 for mesmerising dark scenes, bringing your favourite movies to life.



Super Resolution with Detail Enhancement

Super-resolution defines edges for standard and HD content, while Detail enhancement refines surface detail for true-to-life images.



Frame Interpolation

Frame interpolation technology inserts multiple new frames between the original ones, so motion appears smoother, sharper and more realistic.

Precision Cinema Lens

The EH-TW8400 precision cinema lenses feature a unique 15-element Aspheric Glass Structure (AGS) that shifts the focal plane to the inside of the lens structure itself. Not only does this ensure surface dust is not visible on the final projected image but provides outstanding overall brightness and focus uniformity.



Lens Memory

Fast, quiet and precise, pre-set up to 10 positions for motorised zoom, focus and lens shift for both standard projection and wide cinema ratios. Project 2.35, 1.85 and 1.78 aspect ratios on the same screen without an anamorphic lens — and no downtime when switching between ratios. Watch movies on a grander scale at the touch of a remote button, without any disruptive black bars.

2.35:1 movie on a 16:9 screen

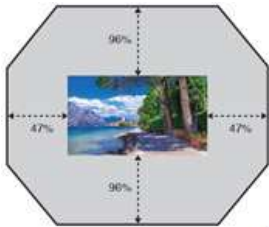


2.35:1 movie on a 2.35:1 screen



Powered Lens Shift

Epson’s advanced projection technology enables a wide range of motorised lens shift capabilities for outstanding installation flexibility. The EH-TW8400 has an incredible range of up to ±96% on the vertical axis and up to ±47% on the horizontal axis. Users can operate the lens shift functions using the remote control, the projector control panel, or control commands.



Efficient Cooling System

When it comes to home cinema, you want to focus on what's in front of you - and nothing else, that's the idea behind the innovative, efficient cooling system of the EH-TW8400. With noise levels as low as 20 dB, this is among the quietest projectors in the industry. It's time to enjoy engaging cinema without distraction - all the better for those moments when the picture takes your breath away.

Connectivity Panel



Specification

PRODUCT NAME	EH-TW8400
PRODUCT CODE	V11H930053
WHAT'S IN THE BOX	
EH-TW8400 Projector, Power Cable, Remote Control + Batteries, HDMI Clamp x 2, User Manual	
TECHNOLOGY	
Projection System	RGB liquid crystal shutter projection system
LCD Panel	0.74-inch wide panel with MLA (C2 Fine, 12 bit, OD)
Pixel Number	2,073,600 dots (1920 x 1080)
Resolution	4K Enhancement* 1920 x 1080 x 2
OPTICAL	
Zoom	1 - 2.1 (Optical)
Screen Size	50" to 300" [1.48 to 9.08 m] (Zoom: Wide) 50" to 300" [3.13 to 18.99 m] (Zoom: Tele)
Projection Distance	100" screen 3.0 - 6.3 m
Throw Ratio	1.35 (Zoom: Wide), 2.84 (Zoom: Tele)
Projection Lens F Number	2.0-3.0
Projection Lens Focal Length	22.5mm - 46.7mm
Focus Method	Powered
IMAGE	
Colour Light Output	2,600 Lumens
White Light Output	2,600 Lumens
Native Aspect Ratio	16:9
Contrast Ratio	1,000,000:1

Lamp Type	250 W UHE	
Colour Reproduction	Up to 1.07 billion colours	
Colour Processing	10 bit (12 bit Digital Colour Processing)	
Keystone Correction	Vertical: -30 to +30 degrees Horizontal: N/A	
Lens Shift (Powered)	Vertical: -96.3% to +96.3% Horizontal: -47.1% to +47.1%	
CONNECTIVITY		
Input: Digital	2 x HDMI (1 x HDCP2.2)	
Input: Computer	1 x D-sub 15-pin (RGB)	
Input: Opt. HDMI	1 x USB A	
Input: Control	1 x RS232c	
Input: Network I/O	1 x RJ45, 1 x USB Type A (for optional Wireless LAN unit)	
Trigger Out	3.5 mm mini-jack	
Wireless Connectivity	Optional	
ADVANCED FEATURES		
WirelessHD	No	
Super Resolution	Yes	
High Dynamic Range - HDR10	Yes	
Hybrid Log Gamma - HLG	Yes	
Image Enhancement	Yes	
Frame Interpolation	Yes	
4K Enhancement	Yes	
3D Formats	Top-and-Bottom, Side-by-Side	
2D to 3D Conversion	No	
Internal Speakers	No	
Picture in Picture	No	
Direct Power On	Yes	
Security	Kensington®-style lock provision	
Aspect Modes	Yes (Auto / Normal / Full / Zoom)	
Colour Modes	2D: Dynamic, Bright Cinema, Natural Cinema, Digital Cinema 3D: 3D Dynamic, 3D Cinema	
GENERAL		
Dimensions D x W x H	450 x 520 x 192.7 mm	
Weight	11.2kg	
Lamp Warranty	1 Year or 750 Hours - Whichever comes first	
Projector Warranty	2 Years	
Power Consumption: Lamp on	298 W	
Power Consumption: Standby	2 W	
Noise Level (Normal/Eco)	31/20 dB	
* 4K Enhancement Technology (4Ke) shifts each pixel diagonally to double Full HD resolution. Resolution is Full HD in 3D Mode.		
PRODUCT OPTIONS		
	Item Code	Description
	Spare Lamp	ELPLP89
	Spare Air Filter	ELPAF39
	Ceiling Mount	ELPMB22
	Flush Mount	ELPMB30
	Suspension Adapter 450mm	ELPFP13
	Suspension Adapter 700mm	ELPFP14
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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.

Consumables

ACCESSORIES & OPTIONS	PRODUCT CODE
<u>ELPSC21B 80" Portable Tripod Screen</u>	V12H002S2Y
<u>ELPMB22 Ceiling Mount</u>	V12H003B22
<u>ELPFP13 Extension Pole - 450mm</u>	V12H003P13
<u>ELPFP14 Extension Pole - 918mm to 1,168mm</u>	V12H003P14
<u>ELPAP10 Wireless LAN Adapter</u>	V12H731P01
<u>ELPAF39 Air Filter</u>	V13H134A39
<u>ELPMB30 Low Profile Ceiling Mount</u>	V12H526040
<u>ELPGS03 3D Glasses</u>	V12H548001
<u>ELPLP89 Replacement Lamp</u>	V13H010L89

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