

# New Product Summary



Launch Date – 1<sup>st</sup> December 2008

Epson  
EH **TW5800**

## Discover the future with the ultimate in Home Theatre Projection

With an impressive 75,000:1 contrast ratio and the most advanced state-of-the-art features, the HD Ready 1080p Epson EH-TW5800 delivers the ultimate in home theatre projection.

### Pushing the boundaries

Epson 3LCD technology enhanced by the new 12-bit D7 panel, C2Fine and DEEPBLACK technology produce unrivalled high definition image quality.

75,000:1 contrast ratio, thanks to Epson DEEPBLACK technology, brings out the deepest jet black quality and detail in black tones.

Enhanced image processing from the HQV Reon VX video processor allows further high end features such as 4-4 Pull-Down to produce clear sharp film-like images.

### Connected to the future

Equipped with two v1.3a HDMI inputs, the Epson EH-TW5800 is designed for you to benefit from High Definition broadcast and digital multimedia. Play Blu-ray and DVD movies, connect the latest HD games console or HD set top box.

### Easy, flexible installation

Use the vertical/horizontal lens shift to project an excellent image from almost any location. The projector can be securely fixed to the ceiling and the supplied cable cover ensures that the installation is neat and tidy.

### Perfect control

For Home Cinema enthusiasts who demand the very best image quality, the EH-TW8000 can be calibrated to match the Image Science Foundation certified standards and ensures that what you see on screen is exactly as the Director intended.

### Real widescreen home cinema

Enjoy true cinema 2.35:1 wide format images without black bands at the top and bottom of the screen thanks to the Anamorphic Mode (requires additional Anamorphic lens).

### Comprehensive Warranty

A premium class projector requires a premium class warranty. The EH-TW5800 has a five year in-home warranty and for convenience also includes a Saturday service. The lamp also has a five year warranty.

### Key features

- HD Ready 1080p, 3LCD Home Cinema Projector
- 1600 lumens brightness and 75,000:1 contrast ratio
- Twin HDMI v.1.3a inputs: Connect to High Definition TV, Blu Ray or Games Consoles
- HQV Reon VX Video Processor for enhanced image processing
- Easy to set up with horizontal and vertical lens shift
- High quality x2.1 optical zoom lens from Fujinon
- View 2.35:1 wide screen format with Anamorphic mode
- Whisper quiet operation at only 22dB
- ISF Certified for perfect image control
- 3 year warranty for projector and lamp



Flexible connectivity including 2 x HDMI v1.3



## Ordering Information

<b>Description</b>	EH-TW5800 LCD Projector
<b>Part Number</b>	V11H293440LU
<b>Barcode</b>	V11H293440LU
<b>Carton Dimensions</b>	TBC
<b>Carton Weight</b>	TBC

## Screen Size & Projection Distance

Use the Epson Projection Distance Calculator software available from [www.epson.co.uk](http://www.epson.co.uk) for distances. Approximate screen sizes are below,

Screen [inch]	Projection distance					
	Wide			Tele		
	cm	inch	foot	cm	inch	foot
30	87	34	2.8	188	74	6.2
40	117	46	3.8	252	99	8.3
60	177	70	5.8	380	150	12.5
80	238	94	7.8	508	200	16.7
100	298	117	9.8	636	250	20.9
120	359	141	11.8	764	301	25.1
150	450	177	14.7	956	376	31.4
200	601	236	19.7	1276	502	41.9
250	752	296	24.7	1595	628	52.3
300	903	356	29.6	1915	754	62.8

## Accessories

### Consumables

**Spare Lamp**  
V13H010L49 (ELPLP49)



**Air Filter Set**  
V13H134A21 (ELPAF21)

80" Portable Screen  
V12H002S08 (ELPSC08)

### Cables

VGA Computer Cable HD-15 to HD-15 1.8m (ELPKC02)  
V12H005C02



VGA Computer Cable HD-15 to HD-15 3.0m (ELPKC09)  
V12H005C09

VGA Computer Cable HD-15 to HD-15 20m (ELPKC10)  
V12H005C10

## What's in the Box

**Projector**



**Remote Control (backlit)**



**2 x AAA alkali batteries**  
for the remote control



**Power Cable**  
3m black cable



**Read This First Booklet**

Explains the contents of the box and which manuals the user should refer to.

Image TBC

**Setup Guide**

Contains information on basic operations for preparing the projector before use (setup and connecting video equipment or a computer) and for starting projection.

Image TBC

**Document CD-ROM**

Contains information on common and useful functions, configuration, troubleshooting, and maintenance.

Image TBC

**Safety Instructions**  
/ World Wide Warranty Terms

Image TBC

# Specifications

Errors and Omissions Excepted		
<b>MODEL</b>		EH-TW5800
Projection System		RGB liquid crystal shutter projection system
Projection Method		Front / Rear / Ceiling mount
<b>Specification of Main Parts</b>		
LCD	Size	0.74-inch wide panel with MLA (D7, C2 Fine, 12 bit, OD)
	Driving Method	Poly-silicon TFT active matrix
	Pixel Number	2073600 dots (1920 x 1080) x 3
	Native Resolution	1080p
	Aspect Ratio	16:09
	Pixel Arrangement	Stripe
	Refresh Rate	100 Hz or 120 Hz (Based on input signal.)
Projection Lens	Type	Manual zoom / Manual focus
	F-Number	2.0 - 3.17
	Focal Length	22.5 mm - 47.2 mm
	Zoom Ratio	1 - 2.1
	Lens Cover	Yes
Lamp	Type	200 W UHE (E-TORL)
	Life	4000 hours (Brightness control: Low)
Optical System		Dichroic mirror separation & prism combine method
Screen Size (Projected Distance)		30" to 300" (0.87 m to 9.03 m) (Wide), 30" to 300" (1.88 m to 19.15 m) (Tele) 100" screen 2.98 m - 6.36 m
Lens Shift Range		Vertical: 96.3% max.(upward and downward) Horizontal: 47.1% max.(left and right)
Light Output (Brightness)	High	1600 lm  (Color mode: Dynamic, Zoom: Wide, Lens shift: V 5:5 / H Center)
	Auto iris: On	1600 lm (Color mode: Dynamic, Zoom: Wide, Lens shift: V 5:5 / H Center, Auto iris: Off)
Contrast	Auto iris: On	75000:1 (Color mode: Dynamic, Brightness control: High, Zoom: Wide, Lens shift: V 10:0 / H Center)
Light Output Uniformity		Typ. 84.5% (Lens shift: V 10:0 / H Center)
Color Reproduction		Full-color (1073.74 million colors )
Video Quality		Interlace-Progressive conversion, 3D Y/C separation, Noise reduction, Mosquite NR, Block NR
Color Processing		Full 10bit
Color Space		115% of NTSC (UCS Chromaticity chart)
Color Mode		Vivid, Cinema day, Natural, Cinema night, HD, Silver screen, x.v.Color
Remote Control Infrared Receiver Directivity		Front, 10 m  Right/Left : -30 to +30 degrees Upper/Lower : -30 to +30 degrees Rear, 10 m Right/Left : -30 to +30 degrees Upper/Lower : +10 to +70 degrees
Effective Scanning Frequency Range (Analog)	Pixel Clock	13.5 MHz to 150 MHz
	Horizontal	15 kHz to 80 kHz

Effective Scanning Frequency Range (Digital)	Vertical	24 Hz, 50 Hz to 85 Hz
	Pixel Clock	13.5 MHz to 150 MHz
	Horizontal	15 kHz to 80 kHz
Adjustment Function	Vertical	24 Hz, 50 Hz to 85 Hz
	Projector / Remote Control	Brightness / Contrast / Tint / Saturation / Input signal / Default position / Menu disappear etc.
	Foot Adjuster	Front-side
	Tilt Angle	0 to 8.0 degrees
	Keystone Correction	N/A
	Frame Interpolation	High / Normal / Low / Off
	Contrast Enhancement	1 / 2 / 3 / Off
	Brightness Control Change	High / Low
	Epson Cinema Filter	Controlled automatically with color mode (ON: Natural / Theatre / Theatre Black 1 / Theatre Black 2 / x.v.Color, OFF: Dynamic / Living room)
	Auto Iris	FAST/NORMAL/OFF
	Progressive	Auto, Film, Video
	Epson Super White 4:4 pull down	ON/OFF On / Off, (Default off, HDMI & Component input)
	(1080/24p, 1080/60i or 480i Capability)	
	Customized Gamma Adjustment	9 points of gamma curve are adjustable except x.v.Color.
	Preset Color Space	HDTV / SMPTE-C / EBU  (User selectable in Natural mode.)
	Color Isolation	Color Isolation: R / G / B
	Six-Axis Color Adjustment	Hue / Saturation / Brightness for each of RGBCMY are adjustable
Advanced Sharpness Adjustment	Thin line Enhancement / Thick line Enhancement / V-line Enhancement / H-line Enhancement	
Aspect Mode	Auto / Normal / Full / Zoom / Wide / Anamorphic Wide	
Output Scaling	Auto / 92% / 94% / 96% / 98% / 100%	
Memory	ISFDayR / ISFNightR / ISFDayDVD / ISFNightDVD / ISFDayVCR / ISFNightVCR / ISFDayX / ISFNightX / Custom1 / Custom2	
Operation Panel Protected Function	Key-lock, Child-lock	
<b>Analog RGB I/O</b>		
Display Performance	Native	1080p
	Resize	1280 x 1024 / 1360 x 768 / 1024 x 768 / 800 x 600 / 640 x 480
Input Signal	Signal Type	Separate signal
	Video Signal	Analog(0.7 Vp-p, 75 ohm/ Mac0.714 Vp-p, 75 ohm)
	Sync. Signal	Separate (positive & negative, bi-polarity 2-5 Vp-p)/ Composite (positive & negative, bi-polarity 2-5 Vp-p)
Input Terminal	Video	D-sub 15pin x 1 Blue-molding
<b>Video I/O</b>		
Component Input		
Display Performance	Native	1080p



Input Signal	Video Standard	480i / 576i / 480p / 576p / 720p / 1080i / 1080p
	Video Signal	Component Video(Analog Y level 0.7 V 75 ohm/ Cr Cb level +/-0.35 V 75 ohm/ sync.negative 0.3 V or 3-state +/-0.3 V on Y)
Input Terminal	Video	RCA x 3 (Red / Green / Blue)
<b>Composite Input</b>		
Display Performance		Composite input: 560 TV-Line (Depend on observation of the multi-burst pattern)
Input Signal	Video Standard	NTSC / NTSC4.43 / PAL / M-PAL / N-PAL / PAL60 / SECAM
	Video Signal	Composite Video (1.0 Vp-p/ Sync.negative, 75 ohm) / S-Video (Luminous 0.714 Vp-p, Chrominous 0.286 Vp-p, 75 ohm)
Input Terminal	Video	Composite Video: RCA (Yellow) x 1 S-Video: Mini DIN
<b>HDMI</b>		
Display Performance	Native	1080p
Input Signal	Version	Ver.1.3a (DeepColor, x.v.Color)
	Video Standard	480i / 576i / 480p / 576p / 720p / 1080i / 1080p
	Video Signal	TMDs (TMDs is signal for HDMI.)
Input Terminal	Video	HDMI x 2
HDCP		Yes
<b>Control I/O</b>		
Serial I/O	I/O Terminal	D-sub 9pin x 1
	I/O Signal	RS-232C
Trigger Out	Output Terminal	3.5 mm mini-jack x 1
	Output Signal	Power on: 12 V DC, 200 mA max. Power off: 0 V
Operating Temperature		5 °C to 35 °C <41 °F to 95 °F>
Operating Altitude		up to 7,500 ft < up to 2,286 m>
Direct Power On		Yes
Direct Power Off		N/A
Start-up Period		To lamp on: Approx. 14 seconds To startup screen: Approx. 16 seconds
Cool-down Period		Approx. 16 seconds
Power Supply Voltage		100-240 V AC ±10% , 50/60 Hz
<b>Power Consumption</b>		
100 - 120 V area (JAPAN, USA etc.)	Lamp On	285 W (Brightness Control: High)
	Standby	0.2 W
220 - 240 V area (Europe etc.)	Lamp On	299 W (Brightness Control: High)
	Standby	0.4 W
Except JAPAN		100 - 240 V AC 50/60 Hz 3.3 - 1.5 A
Dimension	Exclude Feet (D x W x H)	360 x 450 x 136 mm
	Maximum Dimension (D x W x H)	390 x 450 x 145 mm
Weight		Approx. 16.5 lbs. / 7.5 kg
Fan Noise	Brightness Control: Low	22 dB (Color mode: Theatre Black 1 / Theatre Black 2)
<b>Compatible Standard</b>		
Safety	US	UL60950-1 1st edition (cTUVus Mark)
	Canada	CSA C22.2 No.60950-1
	Japan	The electrical appliance safety law / TV receiver
	Europe	IEC 60950-1 1st edition (CE Marking)
	Korea	EK
	China	CCC (GB4943)
	Singapore	PSB

EMC	US	FCC part 15B class B
	Canada	ICES-003 class B
	Japan	The electrical appliance safety law / TV receiver
	CE (Europe)	EMC Directive(2004/108/EC)
	Korea	MIC-Mark
	China	CCC (GB9254, GB 17625.1)
Australia/New Zealand	C-tick Mark	
Environmental Protection	US	State's law for packages
	Japan	Recycling regulation for packages
	Germany & France	A law for waste product evasion
	CE (Europe)	Dioxide regulation
Supplied Accessories	All countries	Recycling regulation
	Power Cable	3 m, 3 Wire (Black)
	Remote Control	Stick type (Black, White)
Optional Accessories	Battery	Alkaline, size R6 x 2 attached
	User's Manual Set	attached
	Spare Lamp	ELPLP49
	Air Filter	ELPAF21 (1 sheet)
	50" Portable Roll Screen	ELPSC06
	60" Portable Roll Screen	ELPSC07
	80" Portable Roll Screen	ELPSC08
	100 Type Screen	ELPSC10
	Ceiling Mount	ELPMB20 (White)
	Ceiling Mount	ELPMB22 (White)
Pipe	ELPFP07 (600mm, White)	
Pipe	ELPFP13 (450mm, White)	
Pipe	ELPFP14 (700mm, White)	
Computer Cable	ELPKC02 (HD15 / HD15, 1.8m)	
Computer Cable	ELPKC09 (HD15 / HD15, 3.0m)	
Computer Cable	ELPKC10 (HD15 / HD15, 20.0m)	