# **New Product Summary**

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



Epson TW5800

# Discover the future with the ultimate in Home Theatre Projection

With an impressive 75,000:1 contrast radio 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**

Description	EH-TW5800 LCD Projector
Part Number	V11H293440LU
Barcode	V11H293440LU
Carton Dimensions	TBC
Carton Weight	TBC

### **Screen Size & Projection Distance**

Use the Epson Projection Distance Calculator software available from www.epson.co.uk for distances. Approximate screen sizes are below,

16:9						
	Projection distance					
Screen	Wide		Wide Tele			
[inch]	em	inch	foot	em	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**

MODEL	issions Excepted	EH-TW5800
Projection System		RGB liquid crystal shutter
i iojection system		projection system
Projection Method		Front / Rear / Ceiling mount
Specification	of Main Parts	
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
	Native Resolution	3 1080p
	Aspect Ratio	16:09
	Pixel Arrangement	Stripe
	Refresh Rate	100 Hz or 120 Hz (Based on
	Tromoon rate	input signal.)
Projection	Туре	Manual zoom / Manual focus
Lens		
	F-Number	2.0 - 3.17
	Focal Length	22.5 mm - 47.2 mm
	Zoom Ratio	1 - 2.1
1	Lens Cover	Yes TOPL
Lamp	Type	200 W UHE (E-TORL)
	Life	4000 hours (Brightness
Optical System	<u> </u>	control: Low) Dichroic mirror separation &
Optioal System	ı	prism combine method
Screen Size (P	Projected Distance)	30" to 300" (0.87 m to 9.03 m)
(1	,	(Wide),
		30" to 300" (1.88 m to 19.15 m
		(Tele)
		100" screen 2.98 m - 6.36 m
Lens Shift Ran	ge	Vertical: 96.3% max.(upward
		and downward)
		Horizontal: 47.1% max.(left
Light Output	High	and right) 1600 lm
(Brightness)	i ligi i	1000 IIII
(Diligituless)		(Color mode: Dynamic, Zoom:
		Wide, Lens shift: V 5:5 / H
		Center)
Color Light Ou	tput (Color Brightness)	1600 lm
-	•	(Color mode: Dynamic, Zoom:
		Wide, Lens shift: V 5:5 / H
Contract	Auto irio. O-	Center, Auto iris: Off)
Contrast	Auto iris: On	75000:1 (Color mode: Dynamic,
		Brightness control: High,
		Zoom: Wide, Lens shift: V 10:
		/ H Center)
	4.	Typ. 84.5% (Lens shift: V 10:0
Light Output U		/ H Center)
Color Reprodu		Full-color (1073.74 million
		colors)
Video Quality		Interlace-Progressive
		conversion, 3D Y/C separation
		Noise reduction, Mosquite NR Block NR
Color Processi	na	Full 10bit
Color Space	'' <del>'</del> 9	115% of NTSC (UCS Ch•
2 3.0. <b>O</b> paco		omaticity chart)
Color Mode		Vivid, Cinema day, Natural,
		Cinema night, HD, Silver
		screen, x.v.Color
Remote Control Infrared Receiver		Front, 10 m
Directivity		
		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	Pixel Clock	13.5 MHz to 150 MHz
Scanning		
Frequency		
Range		
(Analog)		
	11-2	45111-4-22111
	Horizontal	15 kHz to 80 kHz

Ī	Vortical	1 24 Uz E0 Uz to 05 Uz
Effective	Vertical Pixel Clock	24 Hz, 50 Hz to 85 Hz 13.5 MHz to 150 MHz
Scanning	1 Mor Glock	10.0 1011 12 10 100 1011 12
Frequency		
Range		
(Digital)	I la sima atal	45 14 15 45 00 14 15
	Horizontal	15 kHz to 80 kHz 24 Hz, 50 Hz to 85 Hz
Adjustment	Vertical Projector / Remote	Brightness / Contrast / Tint /
Function	Control	Saturation / Input signal /
	00111101	Defalt position / Menu
		disappear etc.
	Foot Adjuster	Front-side
	Tilt Angle	0 to 8.0 degrees
	Keystone	N/A
	Correction Frame	High / Normal / Low / Off
	Interpolation	riigir/ Normar/ Low/ On
	Contrast	1/2/3/Off
	Enhancement	
	Brightness Control	High / Low
	Change	
	Epson Cinema Filter	Controlled automatically with
	FIILEI	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	ON/OFF
	4:4 pull down	On / Off, (Default off, HDMI & Component input)
	(1080/24p,	Component input)
	1080/60i or 480i	
	Capability)	
	Customized	9 points of gamma curve are
	Gamma	adjustable except x.v.Color.
	Adjustment Preset Color	HDTV / SMPTE-C / EBU
	Space	HDIV/SWFTE-C/EBU
	Орасс	(User selectable in Natural
		mode.)
	Color Isolation	Color Isolation: R / G / B
	Six-Axis Color	Hue / Saturation / Brightness
	Adjustment	for each of RGBCMY are
	Advanced	adjustable Thin line Enhancement / Thick
	Sharpness	line Enhancement / V-line
	Adjustment	Enhancement / H-line
		Enhancement
	Aspect Mode	Auto / Normal / Full / Zoom /
	Outrast Capling	Wide / Anamorphic Wide
	Output Scaling	Auto / 92% / 94% / 96% / 98% / 100%
	Memory	ISFDayR / ISFNightR /
	William	ISFDayDVD / ISFNightDVD /
		ISFDayVCR / ISFNightVCR /
		ISFDayX / ISFNightX /
	On and the Day	Custom1 / Custom2
	Operation Panel Protected Function	Key-lock, Child-lock
Analog RGB I/		<u> </u>
Display	Native	1080p
Performance		•
	Resize	1280 x 1024 / 1360 x 768 /
		1024 x 768 / 800 x 600 / 640 x
Innut Cianal	Signal Type	480
Input Signal	Signal Type Video Signal	Separate signal Analog(0.7 Vp-p,75 ohm/
	video Oigilai	Mac0.714 Vp-p. 75 ohm)
	Sync. Signal	Mac0.714 Vp-p, 75 ohm) Separate (positive & negative,
		bi-polarity 2-5 Vp-p)/ Composite (positive &
		Composite (positive &
Innut Territori	Video	negative, bi-polarity 2-5 Vp-p) D-sub 15pin x 1 Blue-molding
Input Terminal Video I/O	Video	ש-sub ו spin x 1 Blue-molding -u-sub-
Component		
Input		
Display	Native	1080p
Performance		





Input Signal		
	Video Standard	480i / 576i / 480p / 576p /
	Video Signal	720p / 1080i / 1080p Component Video(Analog Y
	Video Oigridi	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)
Composite In	out	, , , , , , , , , , , , , , , , , , , ,
Display		Composite input: 560 TV-Line
Performance		(Depend on observation of the multi-burst pattern)
Input Signal	Video Standard	NTSC / NTSC4.43 / PAL / M- PAL / N-PAL / PAL60 /
	Video Signal	SECAM Composite Video (1.0 Vp-p/
	Video Signal	Sync.negative, 75 ohm) /
		S-Video (Luminous 0.714 Vp-
		p, Chrominous 0.286 Vp-p, 75 ohm)
Input Terminal	Video	Composite Video: RCA
pat romma	1.000	(Yellow) x 1
ПРМ		S-Video: Mini DIN
HDMI Display	Native	1080p
Performance	INGUIVE	1000ρ
Input Signal	Version	Ver.1.3a (DeepColor,
	Video Standard	x.v.Color) 480i / 576i / 480p / 576p /
	video Standard	720p / 1080i / 1080p
	Video Signal	TMDS (TMDS is signal for
	ŭ	HDMI.)
Input Terminal HDCP	Video	HDMI x 2 Yes
Control I/O		165
Serial I/O	I/O Terminal	D-sub 9pin x 1
Times Out	I/O Signal	RS-232C
Trigger Out	Output Terminal Output Signal	3.5 mm mini-jack x 1 Power on: 12 V DC, 200 mA
	Output Oignai	max.
		Power off: 0 V
Operating Temp Operating Altitu		5 °C to 35 °C <41 °F to 95 °F> up to 7,500 ft < up to 2,286
Operating Attitu	ue	m>
Direct Power O		Yes
Direct Power O Start-up Period	ff	N/A To lamp on: Approx. 14
Start-up Period		seconds
		To startup screen: Approx. 16
Cool down Dori	- d	seconds
Cool-down Period		Approx. 16 seconds 100-240 V AC ±10%, 50/60
Power Supply V	onago	
Power Supply V		Hz
Power Consun		
Power Consun	nption Lamp On	285 W (Brightness Control:
Power Consun		
Power Consun 100 - 120 V area	Lamp On	285 W (Brightness Control: High)
Power Consun 100 - 120 V area (JAPAN, USA etc.)	Lamp On Standby	285 W (Brightness Control: High)
Power Consun 100 - 120 V area (JAPAN, USA	Lamp On	285 W (Brightness Control: High)
Power Consun 100 - 120 V area (JAPAN, USA etc.) 220 - 240 V area (Europe etc.)	Lamp On Standby	285 W (Brightness Control: High)  0.2 W  299 W (Brightness Control: High)  0.4 W
Power Consun 100 - 120 V area (JAPAN, USA etc.) 220 - 240 V area	Lamp On Standby Lamp On	285 W (Brightness Control: High)  0.2 W 299 W (Brightness Control: High) 0.4 W 100 - 240 V AC 50/60 Hz
Power Consun 100 - 120 V area (JAPAN, USA etc.) 220 - 240 V area (Europe etc.) Except JAPAN	Standby Lamp On Standby Standby	285 W (Brightness Control: High)  0.2 W 299 W (Brightness Control: High) 0.4 W 100 - 240 V AC 50/60 Hz 3.3 - 1.5 A
Power Consun 100 - 120 V area (JAPAN, USA etc.) 220 - 240 V area (Europe etc.)	Standby Lamp On Standby  Exclude Feet (D x W x H)	285 W (Brightness Control: High)  0.2 W 299 W (Brightness Control: High) 0.4 W 100 - 240 V AC 50/60 Hz 3.3 - 1.5 A 360 x 450 x 136 mm
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Power Consun 100 - 120 V area (JAPAN, USA etc.) 220 - 240 V area (Europe etc.) Except JAPAN Dimension	Standby Lamp On Standby  Exclude Feet (D x W x H) Maximum Dimension (D x W x H)  Brightness Control:	285 W (Brightness Control: High)  0.2 W 299 W (Brightness Control: High) 0.4 W 100 - 240 V AC 50/60 Hz 3.3 - 1.5 A 360 x 450 x 136 mm  390 x 450 x 145 mm  Approx. 16.5 (bs. / 7.5 kg) 22 dB (Color mode: Theatre
Power Consun 100 - 120 V area (JAPAN, USA etc.) 220 - 240 V area (Europe etc.) Except JAPAN Dimension  Weight Fan Noise	Exclude Feet (D x W x H)  Maximum Dimension (D x W x H)  Brightness Control: Low	285 W (Brightness Control: High)  0.2 W 299 W (Brightness Control: High) 0.4 W 100 - 240 V AC 50/60 Hz 3.3 - 1.5 A 360 x 450 x 136 mm  390 x 450 x 145 mm
Power Consum 100 - 120 V area (JAPAN, USA etc.)  220 - 240 V area (Europe etc.) Except JAPAN Dimension  Weight Fan Noise  Compatible St	Exclude Feet (D x W x H)  Maximum Dimension (D x W x H)  Brightness Control: Low	285 W (Brightness Control: High)  0.2 W 299 W (Brightness Control: High) 0.4 W 100 - 240 V AC 50/60 Hz 3.3 - 1.5 A 360 x 450 x 136 mm  390 x 450 x 145 mm  Approx. 16.5 (bs. / 7.5 kg 22 dB (Color mode: Theatre Black 1 / Theatre Black 2)
Power Consun 100 - 120 V area (JAPAN, USA etc.) 220 - 240 V area (Europe etc.) Except JAPAN Dimension  Weight Fan Noise	Exclude Feet (D x W x H)  Maximum Dimension (D x W x H)  Brightness Control: Low	285 W (Brightness Control: High)  0.2 W 299 W (Brightness Control: High) 0.4 W 100 - 240 V AC 50/60 Hz 3.3 - 1.5 A 360 x 450 x 136 mm  390 x 450 x 145 mm  Approx. 16.5 (bs. / 7.5 kg 22 dB (Color mode: Theatre Black 1 / Theatre Black 2)  UL60950-1 1st edition (cTUVus Mark)
Power Consum 100 - 120 V area (JAPAN, USA etc.)  220 - 240 V area (Europe etc.) Except JAPAN Dimension  Weight Fan Noise  Compatible St	Standby Lamp On Standby  Exclude Feet (D x W x H) Maximum Dimension (D x W x H) Brightness Control: Low andard US Canada	285 W (Brightness Control: High)  0.2 W 299 W (Brightness Control: High) 0.4 W 100 - 240 V AC 50/60 Hz 3.3 - 1.5 A 360 x 450 x 136 mm  390 x 450 x 145 mm  Approx. 16.5 (bs. / 7.5 kg 22 dB (Color mode: Theatre Black 1 / Theatre Black 2)  UL60950-1 1st edition (cTUVus Mark) CSA C22.2 No.60950-1
Power Consum 100 - 120 V area (JAPAN, USA etc.)  220 - 240 V area (Europe etc.) Except JAPAN Dimension  Weight Fan Noise  Compatible St	Standby Lamp On  Standby  Exclude Feet (D x W x H)  Maximum Dimension (D x W x H)  Brightness Control: Low andard US	285 W (Brightness Control: High)  0.2 W 299 W (Brightness Control: High) 0.4 W 100 - 240 V AC 50/60 Hz 3.3 - 1.5 A 360 x 450 x 136 mm  390 x 450 x 145 mm  Approx. 16.5 (bs. / 7.5 kg 22 dB (Color mode: Theatre Black 1 / Theatre Black 2)  UL60950-1 1st edition (cTUVus Mark) CSA C22.2 No.60950-1 The electrical appliance safety
Power Consum 100 - 120 V area (JAPAN, USA etc.)  220 - 240 V area (Europe etc.) Except JAPAN Dimension  Weight Fan Noise  Compatible St	Standby Lamp On Standby  Exclude Feet (D x W x H) Maximum Dimension (D x W x H) Brightness Control: Low andard US Canada	285 W (Brightness Control: High)  0.2 W 299 W (Brightness Control: High) 0.4 W 100 - 240 V AC 50/60 Hz 3.3 - 1.5 A 360 x 450 x 136 mm  390 x 450 x 145 mm  Approx. 16.5 (bs. / 7.5 kg 22 dB (Color mode: Theatre Black 1 / Theatre Black 2)  UL60950-1 1st edition (cTUVus Mark) CSA C22.2 No.60950-1 The electrical appliance safety law / TV receiver
Power Consum 100 - 120 V area (JAPAN, USA etc.)  220 - 240 V area (Europe etc.) Except JAPAN Dimension  Weight Fan Noise  Compatible St	Standby Lamp On  Standby  Exclude Feet (D x W x H)  Maximum Dimension (D x W x H)  Brightness Control: Low andard US  Canada Japan  Europe	285 W (Brightness Control: High)  0.2 W 299 W (Brightness Control: High) 0.4 W 100 - 240 V AC 50/60 Hz 3.3 - 1.5 A 360 x 450 x 136 mm  390 x 450 x 145 mm  Approx. 16.5 (bs. / 7.5 kg 22 dB (Color mode: Theatre Black 1 / Theatre Black 2)  UL60950-1 1st edition (cTUVus Mark) CSA C22.2 No.60950-1 The electrical appliance safety law / TV receiver IEC 60950-1 1st edition (CE Marking)
Power Consum 100 - 120 V area (JAPAN, USA etc.)  220 - 240 V area (Europe etc.) Except JAPAN Dimension  Weight Fan Noise  Compatible St	Standby Lamp On Standby  Exclude Feet (D x W x H) Maximum Dimension (D x W x H)  Brightness Control: Low andard US Canada Japan Europe Korea	285 W (Brightness Control: High)  0.2 W 299 W (Brightness Control: High) 0.4 W 100 - 240 V AC 50/60 Hz 3.3 - 1.5 A 360 x 450 x 136 mm  390 x 450 x 145 mm  Approx. 16.5 (bs. / 7.5 kg 22 dB (Color mode: Theatre Black 1 / Theatre Black 2)  UL60950-1 1st edition (cTUVus Mark) CSA C22.2 No.60950-1 The electrical appliance safety law / TV receiver IEC 60950-1 1st edition (CE Marking) EK
Power Consum 100 - 120 V area (JAPAN, USA etc.)  220 - 240 V area (Europe etc.) Except JAPAN Dimension  Weight Fan Noise  Compatible St	Standby Lamp On  Standby  Exclude Feet (D x W x H)  Maximum Dimension (D x W x H)  Brightness Control: Low andard US  Canada Japan  Europe	285 W (Brightness Control: High)  0.2 W 299 W (Brightness Control: High) 0.4 W 100 - 240 V AC 50/60 Hz 3.3 - 1.5 A 360 x 450 x 136 mm  390 x 450 x 145 mm  Approx. 16.5 (bs. / 7.5 kg 22 dB (Color mode: Theatre Black 1 / Theatre Black 2)  UL60950-1 1st edition (cTUVus Mark) CSA C22.2 No.60950-1 The electrical appliance safety law / TV receiver IEC 60950-1 1st edition (CE Marking)

EMC	US	FCC part 15B class B
LIVIO	Canada	ICES-003 class B
	Japan	The electrical appliance safety
	оприн	law / TV receiver
	CE (Europe)	EMC Directive(2004/108/EC•
	Korea	MIC-Mark
	China	CCC (GB9254, GB 17625.1)
	Australia/New	C-tick Mark
	Zealand	
Environmental Protection	US	State's law for packages
	Japan	Recycling regulation for packages
	Germany & France	A law for waste product
	Germany & France	evasion
	CE (Europe)	Dioxide regulation
	All countries	Recycling regulation
Supplied	Power Cable	3 m, 3 Wire (Black)
Accessories		5, 6 (Diasily
	Remote Control	Stick type (Black, White)
	Battery	Alkaline, size R6 x 2
	User's Manual Set	attached
Optional	Spare Lamp	ELPLP49
Accessories		
	Air Filter	ELPAF21 (1 sheet)
	50" Portable Roll	ELPSC06
	Screen	
	60" Portable Roll	ELPSC07
	Screen	
	80" Portable Roll	ELPSC08
	Screen	
	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,
	Compator Gabic	3.0m)
	Computer Cable	ELPKC10 (HD15 / HD15,
		20.0m)