

# New Product Summary



Launch Date – 1<sup>st</sup> February 2007

Epson  
EMP **TW1000**

## Everything you need for a high definition future

The flagship model in the Epson Home Cinema range is packed with the latest technology for exceptional viewing. Full HD with a native 1080p resolution, it has everything you need to enjoy movies, TV and more – today and tomorrow.

### The projector that gives a star performance every time

Enjoy perfect images for any subject and in any lighting conditions. Colour purity and contrast are optimised by Epson's exclusive Cinema Filter Technology. Also, six pre-configured colour modes match colour, brightness and other settings to your environment at the touch of a button.

### Are you ready to experience full high-definition cinema?

Take your home entertainment to the next level with the latest Epson technologies. These include Auto Iris, which creates deeper blacks and enhanced whites with a 12,000:1 contrast ratio. Full 10-bit colour processing thanks to HDMI v1.3 which ensures rich colours and smooth shades

### Key Features

- Switch to High-definition with native full HD 1080p panels and HDMI input
- Bright colours are easy on the eye with 3LCD and 1200 ANSI lumens brightness
- Stunning attention to detail with the new optical 2.1x zoom lens
- Stimulating, bright, vivid detail with 12,000:1 contrast ratio
- Warm natural tones – a combination of true 10-bit colour and v1.3 HDMI connectivity
- Give yourself more room to view with horizontal and vertical lens shift



Flexible connectivity including HDMI v1.3



## Ordering Information

Description	EMP-TW1000 LCD Projector
Part Number	V11H245040DA
Barcode	8715946332789
Carton Dimensions	503 (l) x 444 (w) x 292 (h)
Carton Weight	9kg

remote control unlit / lit



## 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 Size in 16/9 Aspect		Projection Distance		
	Screen Dimension W x H	Wide	Tele	Offset Angle
60" / 1.5m	1,3 m x 0,7 m	1,8 m	3,8 m	35cm
80" / 2.0m	1,8 m x 1,0 m	2,4 m	5,0 m	46cm
100" / 2.8m	2,2 m x 1,2 m	3,0 m	6,3 m	58cm
120" / 3.0m	2,7 m x 1,5 m	3,6 m	7,6 m	69cm
150" / 3.8m	3,3 m x 1,9 m	4,5 m	9,5 m	86cm
200" / 5.0m	4,4 m x 2,5 m	6,1 m	12,7 m	115cm

## Accessories

### Consumables

**Spare Lamp**  
V13H010L39 (ELPLP39)



**Air Filter Set**  
V13H134A09 (ELPAF09)

### Screens

50" Portable Screen  
V12H002S06 (ELPSC06)



60" Portable Screen  
V12H002S07 (ELPSC07)



80" Portable Screen  
V12H002S08 (ELPSC08)

### Mountings

Ceiling Pipe (white)  
V12H003P07 (ELPFP07)

Ceiling Mount  
V12H003B20 (ELPMB20)

### 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



### D Scart Adapter



### 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

Epson EMP-TW1000

## Projection System

3LCD RGB Liquid-Crystal Shutter Projection System

## Projection Method

Front / Rear / Ceiling Mount

## Specification of main parts

### LCD

Size: 0.74 inches with MLA (D6, C2Fine)  
Driving Method: Poly-silicon TFT Active Matrix  
Pixel Number: 2073600 dots (1920x1080) x3  
Native Resolution: 1080p  
Aspect Ratio: 16:9  
Pixel Arrangement: Stripe  
Refresh Rate: 50Hz-60Hz (based on input signal)

### Projection Lens

Type: Manual focus / zoom  
F-Number: 2.0 – 3.17  
Focal Length: 22.5 mm – 47.2 mm  
Zoom Ratio: 1.0-2.1  
Lens Cover: yes

### Lamp

Type: 170 W UHE (E-TORL)  
Life: 1700h (lamp brightness high), 3000h (lamp brightness low)

### Optical System

Dichroic Mirror Separation & Prism combine Method

## Screen Size (Projected Distance)

30" to 300" [0.87 to 9.03 m] (Zoom: Wide),

30" to 300" [1.88 to 19.15 m] (Zoom: Tele)

## Brightness

### High Brightness Mode

1200 lumens (Colour mode: Dynamic, Zoom: Wide, Lens shift: V10/ H centre)

### Low Brightness Mode

300 lumens (Colour mode: Theatre Black 1, Zoom: Wide, Lens shift: V10/ H centre)

## Contrast

12000:1 (Colour mode: Dynamic, Lamp brightness: High Zoom: Wide, Lens shift: Full: Auto Iris: On)

## Brightness Uniformity

89% (Lens shift : V10/ H centre)

## Colour Reproduction

Full colour (1073.74 colours)

## Remote Control Infrared Receiver Directivity

Right/ Left: -30 to +30 degrees

Upper/ Lower: -30 to +30 degrees

## Effective Scanning Frequency Range analogue

### Pixel clock

13.5MHz to 150MHz

### Horizontal

15KHz to 80KHz

### Vertical

50Hz to 85Hz

## Effective Scanning Frequency Range digital

### Pixel clock

13.5MHz to 150MHz

### Horizontal

15KHz to 80KHz

### Vertical

50Hz to 85Hz

## Adjustment Functions

Projector / Remote Control

Brightness, Contrast, Tint, Saturation, Input Signal etc

Foot adjuster: front side

Tilt Angle

0 to 2.1 degrees

Keystone Correction

N/A

Lamp Brightness Change

Default High: Dynamic, Living Room, Natural, Theatre, Theatre Black 1

Default Low: Theatre Black 2

Epson Cinema Filter

Controlled automatically with colour mode

Auto Iris

Controlled automatically adjusting to video source

Epson Super White

Controlled automatically adjusting to video source

Available at Natural, Theatre, Theatre Black 1/2

Others

Customized Gamma Adjustment, Six-Axis Colour Adjustment, Advanced Sharpness Adjustment, Aspect Mode, Key-lock, Child-lock...

## Analogue RGB I/O

Display Performance

Native : 1125p

Input Signal

Signal Type: Separate signal

Video Signal: Analogue (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)

Input Terminal

Video: D-sub 15pin x1 Blue moulding

## HDMI

Display Performance

Native: 1125p

Input Signal

Signal Type: Separate Signal

Version: 1.3

Video Signal: TMDS

Input Terminal

1x HDMI

## Video I/O

Input Signal (Composite)

Video Standard: NTSC / NTSC4.43 / PAL / M-PAL / N-PAL / PAL60 / SECAM

Video Signal: Composite Video(1.0Vpp/ Sync.negative, 75 ohm) /

S-Video(Luminous0.714Vpp, Chrominous 0.286Vpp, 75 ohm) /

Input Terminal (Composite)

Video: Composite Video: RCA (Yellow) x 1

S-Video: Mini DIN

Input Signal (Component)

Video Standard: 525i/ 625i/ 525p/ 625p/ 750p/ 1125i/1125p

Input Terminal (Component)

3x RCA

SCART Input

Input Signal: Video Standard 625i

Video Signal: RGB Video

Input Terminal: 1x RCA

## Control I/O

I/O Terminal

D-sub 9pin x1

I/O Signal

RS-232C

## Operating Temperature

5°C to 35 °C <41°F to 95 °F>

## Operating Altitude

From 0 feet/ 0 m to 7,500 feet/ 2,286 m

## Start-up Period

12sec (lamp on: 10sec)

## Direct Power On

## Cool-down Period

Approx. 30sec

## Power Supply Voltage

100-240 VAC ±10% , 50/60Hz

## Power Consumption

230V area (Europe etc.)

Lamp ON: 200W (lamp low), Standby: 5W

Rated Voltage & Current

100 - 240 VAC 3.7 – 1.6A 50/60Hz

## Dimensions

Excluding Feet

310(D) x 406(W) x 124(H) mm

Maximum

353(D) x 406(W) x 143(H) mm

## Weight

Approx. 12.3 lbs / 5.6 kg

## Fan Noise

High Brightness Mode

33dB

Low Brightness Mode

26dB

## Accessories

Remote Control

Batteries (AAA Alkali battery x 2 for the remote control)

Power Cable 3m (black)

D Scart Adapter

User's Manual Set