

# Specifications

|                                  |                            |                   | EMP-82                                                               | EMP-62                      |
|----------------------------------|----------------------------|-------------------|----------------------------------------------------------------------|-----------------------------|
| Part Number                      |                            |                   | V11H176052                                                           | V11H178052                  |
| Projection System                |                            |                   | RGB Liquid-Crystal Shutter Projection System                         |                             |
| Specification of                 | LCD                        | Size              | 0.6 Inch with MLA (x 3)                                              |                             |
| Main Parts                       |                            | Driving Method    | Polysilicon TFT Active Matrix                                        |                             |
|                                  |                            | Pixel Number      | 786432 dots (1024 x 768) x 3                                         | 480000 Dots (800 x 600) x 3 |
|                                  |                            | Native Resolution | XGA                                                                  | SVGA                        |
|                                  | Projection Lens            |                   | Manual Focus & 1.2 x Optical Zoom                                    |                             |
|                                  |                            |                   | F = 1.60 – 1.74 / F = 18.4 - 22.1 mm                                 |                             |
|                                  | Lamp                       | Type              | 170 W UHE                                                            |                             |
|                                  |                            | Life              | 2000 Hours (High Brightness Mode) / 3000 Hours (Low Brightness Mode) |                             |
| Screen Size (Projected Distance) |                            |                   | 30 to 300 Inch [0.9 to 10.8 m]                                       |                             |
| Brightness                       | High / Low Brightness Mode |                   | 2000 ANSI lm / 1500 ANSI lm                                          |                             |
| Contrast                         |                            |                   | 400:1                                                                |                             |
| Colour Reproduction              |                            |                   | Full-Color (16.77 Million Colours )                                  |                             |
| Sound Output                     |                            |                   | 5 W Monaural                                                         |                             |
| Effective Scanning               | Pixel Clock                |                   | 13.5 MHz to 162 MHz                                                  |                             |
| Frequency Range                  | Horizontal                 |                   | 15 KHz to 92 KHz                                                     |                             |
| (Analog)                         | Vertical                   |                   | 50 Hz to 85 Hz                                                       |                             |
| Auto Keystone Correction         |                            |                   | Vertical : -30 to +30 Degrees                                        |                             |
| Analog RGB I/O                   | Display Performance        | Native            | 1024 x 768 Dots (XGA)                                                | 800 x 600 Dots (SVGA)       |
|                                  |                            | Resize            | UXGA / SXGA / SVGA / VGA                                             | SXGA / XGA / VGA            |
|                                  | Input Terminal             | Video             | D-sub 15-Pin x 2                                                     |                             |
|                                  |                            | Audio             | Stereo Mini-Jack x 2                                                 |                             |
|                                  | Output Terminal            | Video             | D-sub 15-Pin x 1                                                     |                             |
|                                  |                            | Audio             | Stereo mini-jack x 1                                                 |                             |
| Video I/O                        | Input Signal               | Video Standard    | NTSC / NTSC4.43 / PAL / M-PAL / N-PAL / PAL60 / SECAM                |                             |
|                                  | Input Terminal             | Video             | Composite Video: RCA (Yellow) x 1                                    |                             |
|                                  |                            |                   | S-Video: Mini DIN x 1                                                |                             |
|                                  |                            |                   | Component Video: D-sub 15-Pin x 2                                    |                             |
|                                  |                            |                   | Video-RGB: D-Sub 15-Pin x 2                                          |                             |
|                                  |                            | Audio             | RCA x 2                                                              |                             |
| Control I/O                      | USB I/O                    | I/O Terminal      | Type B Ver. 1.1                                                      |                             |
|                                  | Serial I/O                 | Serial Terminal   | Mini D-sub 9 Pin x 1                                                 |                             |
| Operating Temperature            |                            |                   | 5°C to 35°C <41°F to 95°F>                                           |                             |
| Operating Altitude               |                            |                   | Up to 7,500 feet <2,286 m>                                           |                             |
|                                  |                            |                   | (Over 4,921 feet <1,500 m> Area: with High Altitude Mode)            |                             |
| Start-Up Period                  |                            |                   | 4 Sec.                                                               |                             |
| Cool-Down Period                 |                            |                   | Instant Off                                                          |                             |
| Power Supply Voltage             |                            |                   | 100 – 240 VAC ±10% , 50 / 60 Hz                                      |                             |
| Power Consumption                | Lamp On                    |                   | 240W                                                                 |                             |
|                                  | Stand-by                   |                   | 5W                                                                   |                             |
| Dimensions (D x W x H)           |                            |                   | 246 x 327 x 86 mm (Excludes Feet)                                    |                             |
| Weight                           |                            |                   | Approx. 5.9 lbs. / 2.7 kg                                            |                             |
| Fan Noise                        |                            |                   | 30dB (Low Brightness Mode)                                           |                             |

## Supplied Accessories

|                          |                                         |
|--------------------------|-----------------------------------------|
| Power Cable              | 3.0 m                                   |
| Computer Cable           | 1.8 m                                   |
| USB Cable                | 1.8 m USB A / USB B                     |
| Remote Control           | With AAA Type Alkaline Batteries x 2pcs |
| Soft Carrying Case       |                                         |
| Password Protect Sticker |                                         |
| User's Manual            |                                         |

## Optional Accessories

|                               |                          |
|-------------------------------|--------------------------|
| ELPLP34 (Part No. V13H010L34) | Replacement Lamp         |
| ELPAF08 (Part No. V13H134A08) | Air Filter Set, 2 Sheets |

## Projection Distance

| Diagonal Screen Size (inches) | Wide (cm) | Tele (cm) |
|-------------------------------|-----------|-----------|
| 30                            | 87        | 105       |
| 40                            | 117       | 141       |
| 60                            | 177       | 213       |
| 80                            | 237       | 285       |
| 100                           | 297       | 358       |
| 200                           | 598       | 719       |
| 300                           | 899       | 1080      |

## Connector Panel

