

Introduction

1-1 Product Highlights

- One panel 0.7" DMD XGA projection system with 1500 ANSI lumens (Typ.), 1200 (Min.).
- 180 - Watt Compact P-VIP Lamp (user replaceable)
- High efficiency cooling system with low system acoustic noise level
- Light weight 3.99 lbs.
- Manual focus projection 1:1.2 zoom lens
- Native 1024 x 768 resolution, 16.7M True colors
- With up, down, left, and right screen reverse
- Build-in full screen NTSC/PAL/SECAM video capability with S-video / Composite / component and HDTV terminals
- Motion adaptive hardware de-interlacing with 3:2 and 2:2 pull down
- UXGA/SXGA+/SXGA/XGA/SVGA/VGA/MAC compatibility with one M1-DA input terminal
- Auto image re-sizing to 1024 x 768 full screen
- Auto detection of computer signal input
- Auto Image synchronization (Auto-tracking /frequency /position adjustment)
- Automatically saves adjustments for future use
- On-screen menu with 8 languages
- Built-in one 2W speaker
- Self protect timer for hot re-strike of compact P-VIP lamp
- One M1-DA PC-data input (Including Analog and Digital RGB signal)
- IR remote control with USB mouse function and laser pointer
- Adaptive voltage control fan speed
- RS232 for PC remote control

1-2 Mechanical Specifications

- Dimensions(WxHxD)
Internal : 8.86x7.28x2.6 +/- 0.034 inches (225x185x66 +/- 1mm)
External : 9.65x8.3x3.29 +/- 0.034 inches (245x211x83.5 +/- 1 mm)
- Weight : 3.99 lbs.
- Cooling System
Advanced air flow
Three fans with low system acoustic noise level
Temperature control circuits with adaptive voltage control fan speed
Max touch temperature follows UL60950 regulation
- Tilt Angle : 9° with elevator mechanism
- Keystone Correction : +/- 16°
- Lamp Protection
Lamp power supply shut off automatically when lamp cover open

1-3 Electrical Specifications

- Power Supply
Universal AC 100 to 240V at 50 to 60 Hz with PFC input
180W Compact P-VIP Lamp
Variance FAN speed control (Depend on temperature variant)
- Input Signal Spec.
Hsync Frequency : 15 ~ 70 kHz
Vsync Frequency : 43 ~ 85 Hz
Video Signal RGB (PC)
 - Analog RGB 0.7Vp-p, 75 ohm
 - Analog RGB 1Vp-p, 75 ohm, Sync. signal
 - Separate TTL H,V Sync.
 - Composite TTL Sync.Video
 - Composite video 1Vp-p,75 ohm
 - S-video Luminance 0.714Vp-p,75 ohm
 - Chrominance 0.286Vp-p,75 ohm
- Power Consumption : 224W +/- 10% Typ, @ 110VAC (need to check again when card reader function is ready)

1-4 Optical Specifications

- Projection lens : F/ 2.4~2.65, f= 28.04~33.59 mm. 1.2X Manual Zoom Lens.
Throw Ratio = 2.0(Wide) ~ 2.4(Tele)
all above is at 2.4M
- Projection Image Size : Adjustable from 24.4" to 292.5" (Diagonal)
- Throw Distance : 1.2m – 12m
- Brightness : Average 1500 ANSI Lumens (with R100/G90 4-seg. Color wheel)
- Contrast Ratio : 1700:1 Typical (Full White and Black)
- Uniformity : 75% Typical (Japan standard)

1-5 Environmental

- Temperature :
Operating : 5 to 35°C
Storage : -20° to 60°C
- Maximum Humidity:
Operating : 5° to 35°C, 80%RH (max.), non-condensing
Storage : -20° to 60°C, 80%RH (max), non-condensing
- Acoustic Noise Level :
38 dB(A) (180 W Typical, Under 23 +/- 2°C)
36 dB(A) (156 W Typical, Under 23 +/- 2°C)
- Lamp Life :
2000 hours typical, 50% brightness, 50% survival
- Altitude:
Operating : 0 ~ 2,500 ft 5~35° C
 2,500 ~ 5,000 ft 5~30° C
 5,000 ~ 10,000 ft 5~25° C
Storage : <40,000 ft
- MTBF : Operating more than 10,000 hours (80% Confidence Level)