

Chapter 1

Introduction

1-1 Product Highlights

- One panel 0.7" DMD XGA projection system with 2100 ANSI Lumens (Typical), 1700 ANSI Lumens (Minimum) (Philips E19 Lamp operation at 200 W)
- High efficiency cooling system with low system acoustic noise level
- Light weight Under 4.7 lbs.
- True 1024x768 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
- UXGA/SXGA+/SXGA/XGA/SVGA/VGA/MAC compatibility with one D-sub input terminal
- Auto image re-sizing to 1024x768 full screen
- Manual focus/zoom 1:1.2 zoom lens
- 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
- Basic wireless remote control with PU/PD function
- Compatible with the full function wireless remote control with USB mouse function and laser pointer(optional kit)
- Adaptive voltage control fan speed
- Adjustable time-delayed entry into suspend mode
- Monitor loop through
- Option for optimised display image for different source input
- Auto source option for stable display from fixed source(when disabled)
- Built-in one 2 W speaker
- Tilt Angle: 11 degree with elevator mechanism
- Keystone correction: +/-8 degrees
- Power Supply: Universal AC 100 -- 240V ~ 50 / 60 Hz with PFC input

- Input signal spec.
 - * Hsync Frequency 15 ~ 70 kHz
 - * Vsync Frequency 56 ~ 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
- Video Compatibility
 - * Standards :
 - NTSC - M(3.58 MHz), 4.43 MHz,
 - PAL - B, D, G, H, I, M, N
 - SECAM - B, D, G, K, K1, L
 - Component/HDTV - 480i; 480P; 576i; 576P, 720P; 1080i
- UXGA / Compression
 - * Compress UXGA image into XGA display
- Power Consumption
 - * 250 W full power (Typical)
- Projection Image Size
 - * Adjustable from 24.6" to 295.3" (Diagonal)
- Throw Distance
 - * 1.2m - 12 m
- Contrast
 - * 2000 :1 Typical (Full White and Black)
 - * 1200 :1 Minimum (Full White and Black)
- Uniformity
 - * 80% Typical (Japan standard)
 - * 65% Minimum (Japan Standard)
- Temperature
 - * Operating: 5 ~ 35 degrees centigrade
 - * Storage: -20 ~ 60 degrees centigrade
- Maximum Humidity
 - * Operating: 5 ~ 35 degrees centigrade, 80%RH (Max.), non-condensing
 - * Storage: -20 ~ 60 degrees centigrade, 80%RH (Max.), non-condensing
- Acoustic noise level
 - * 180 W , 36 dB(A) (Typical, Under 23 +/- 2 degrees),
 - * 150 W , 34 dB(A) (Typical, Under 23 +/- 2 degrees),
- Lamp life
 - * 2000 hours (Target), 50% survival rate
- Altitude
 - * Operating: 0~2,500 ft for 5 ~35 degrees centigrade
 - 2,500~5,000 ft for 5 ~ 30 degrees centigrade
 - 5,000~10,000 ft for 5 ~25 degrees centigrade
 - * Storage: 40,000 ft
- MTBF
 - * Operating more than 40,000 hours (90% Confidence Level)

1-2 Computer Compatibility (Analog)

Compatibility	Resolution	V-Sync [Hz]	H-Sync [KHz]
VGA	640x400	85	37.9
	640x480	60	31.5
	640x480	72	37.9
	640x480	75	37.5
	640x480	85	43.3
SVGA	800x600	56	35.2
	800x600	60	37.9
	800x600	72	48.1
	800x600	75	46.9
	800x600	85	53.7
	1024x768	60	48.4
	1024x768	70	56.5
	1024x768	75	60.0
SXGA	1280x1024	60	63.98
	1400x1050	60	63.98
UXGA	1600x1200	60	75.00
MAC LC 13"	640x480	66.66	34.98
MAC II 13"	640x480	66.68	35
MAC 16"	832x624	74.55	49.725
MAC 19"	1024x768	75	60.24
MAC	1152x870	75.06	68.68
MAC G4	640x480	60	31.35
i Mac DV	1024x768	75	60