

Chapter 1

Introduction

1-1 Product Highlights

- One panel 0.55" DMD SVGA projection system with 1150 ANSI Lumens (Typical), 1030 ANSI Lumens (Minimum) (Ushio/Philips 200W Lamp)
- High efficiency cooling system with low system acoustic noise level (200W: 37 dB (Typical, Under 23 +/- 2°C))
- Light weight Approx. 4.5 lbs.
- True 800 x 600 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
- SXGA/XGA/SVGA/VGA/MAC compatibility with one D-sub input terminal
- Auto image re-sizing to 800 x 600 full screen
- Manual focus 1:1.2 zoom lens
- Auto detection of computer signal input
- Auto Image synchronization (Auto-tracking /frequency /position adjustment)
- Freeze function
- Automatically saves adjustments for future use
- On-screen menu with 11 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 standby 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

1-2 Mechanical Specifications

1. Dimensions (LxWxH)
 - Internal 9.65x7.68x2.85 +/- 0.04 inches (245x195x72.5 +/- 1mm)
 - External 10.47x8.50x3.35 +/- 0.04 inches (266x216x85 +/- 1mm)
2. Weight
 - Approx. 4.5 lbs.
3. Cooling System
 - Advanced air flow
 - Four fans with low system acoustic noise level
 - Temperature control circuits with adaptive voltage control fan speed
 - Max touch temperature follows UL60950 regulation
4. Cabinet
 - Provides space for PCB boards, fan, optical engine, power supply, and Compact NSH/UHP Lamp
5. Front Side
 - Projection zoom Lens
 - One IR receiver window
 - One outlet vent
 - One elevator button
 - One sound outlet
6. Rear Side
 - One 15-pin D-sub for Analogue RGB / Component Video / HDTV
 - One D-Sub 15-pin female connector for monitor
 - One Mini DIN 4-pin for S-Video Input
 - One RCA Jack for Composite Video Input
 - One IR receiver window
 - Kensington keylock hole
 - One inlet vent
 - One USB mouse input
 - One 3.5 mm phone jack for line audio input
7. Top Side
 - Six button keypad
 - Two LEDs (Lamp, Temp)

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|--------------------------|--|
| 8. Bottom | <ul style="list-style-type: none"> - Spec. and warning labels - One elevator foot, one fix foot and one adjustable foot - One lamp cover - TBD inlet vent - Three M3 holes for ceiling mount - One 1/4" thread hole for photo tripod |
| 9. Left Side | <ul style="list-style-type: none"> - Inlet vents - AC power input IEC-C14 socket |
| 10. Right Side | <ul style="list-style-type: none"> - None |
| 11. Lamp housing | <ul style="list-style-type: none"> - Lamp could be changed by customer, but should follow the user manual instruction - Replaceable Lamp should be provided by Coretronic or its authorized agencies |
| 12. Tilt Angle | <ul style="list-style-type: none"> - 11 degree with elevator mechanism |
| 13. Keystone correction | <ul style="list-style-type: none"> - +/-16 degrees |
| 14. Color | <ul style="list-style-type: none"> - Moonlight silver and Ion silver |
| 15. Materials | <ul style="list-style-type: none"> - Magnesium (Die-casting) for Top and bottom cover - NORYL/PC/PC+ABS/BMC/PPS for plastic parts |
| 16. Lamp Door Protection | <ul style="list-style-type: none"> - Lamp power supply shut off automatically when door open |

1-3 Display Panel Specifications

1. TI DMD, 0.55" 12 degree DDR SVGA Digital Mirror Device
2. Number of active dots : 800(H) x 600(V)

1-4 Electrical Specifications

1. Power Supply
 - Universal AC 100 -- 240V ~ 50 / 60 Hz with PFC input
 - 200 W Lamp
 - Variance FAN speed control (Depend on temperature variant)
2. Terminals
 - Computer Input (D-Sub Female Terminal x 1)
 - Composite Video Input (RCA jack x 1)
 - S-Video Input (Mini DIN 4-pin x 1)
 - Monitor Output (D-Sub 15-pin Female terminal x 1)
 - USB Remote mouse output(USB, type B connector x 1)
 - Audio line Input (3.5mm phone jack x 1)
3. 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.
 - 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

4. Computer Compatibility (Analog)

Compatibility	Resolution	V-Sync [Hz]	H-Sync [KHz]
VGA	640x350	70	31.5
	640x350	85	37.9
	640x400	85	37.9
	640x480	60	31.5
	640x480	72	37.9
	640x480	75	37.5
	640x480	85	43.3
	720x400	70	31.5
	720x400	85	37.9
	SVGA	800x600	56
800x600		60	37.9
800x600		72	48.1
800x600		75	46.9
800x600		85	53.7
XGA	1024x768	43.4	35.5
	1024x768	60	48.4
	1024x768	70	56.5
	1024x768	75	60.0
	1024x768	85	68.7
SXGA	1280x1024	60	63.98
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

- 5. System Controller - TI DDP2000 Set
- 6. 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
- 7. SXGA / Compression - by using "DDP2000" Chips to compress SXGA image into SVGA display
- 8. Motion Adaptive De-Interlacing - by using "DDP2000" Chip to provide hardware deinterlacing.
- 9. Power Consumption - 250 W full power

1-5 Optical Specifications

- 1. Projection lens - F/ 2.4 ~ 2.7 , f= 19.7 ~ 23.6 mm. 1.2 X Manual Zoom Lens.
 - Throw Ratio = 1.75 (Wide) ~ 2.12 (Tele)
- 2. Projection Image Size - Adjustable from 27.9" to 337.5" (Diagonal)
- 3. Throw Distance - 1.2m – 12 m
- 4. Brightness (200W) - 1150 ANSI Lumens (Typical)
 - 1030 ANSI Lumens (Minimum)
- 5. Contrast - 1800 :1 Typical (Full White and Black)
 - 1000 :1 Minimum (Full White and Black)
- 6. Uniformity - 75% Typical (Japan standard)
 - 65% Minimum (Japan Standard)
 - 60% Typical (ANSI Standard)

