

# 42-INCH HIGH DEFINITION



## CMP4121H DU

PLASMA  
DISPLAY

- HDTV ready (Independent and component video inputs)
- High definition resolution (1024 x 1024)
- ALiS technology
- 16:9 aspect ratio
- 16.7 million colors
- Multiscan capability (PC analog RGB)
- Built-in screen savers
- Speaker inputs / outputs
- Optional tabletop stand

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# 42-INCH HIGH DEFINITION

# PLASMA DISPLAY

CMP4121HDU

MODEL		CMP4121HDU
<b>GENERAL</b>		
Power supply		AC 100V±10%, 50/60Hz
Frequency		50/60Hz
Power consumption		380W (StandBy: 2.5 W)
Dimensions		40.8" (W) x 25.5" (H) x 3.5" (D)
Weight		68lbs, 3 ozs
<b>DISPLAY CHARACTERISTICS</b>		
Effective display area		36.5/16" x 20.9/16"
Aspect ratio		1.6:9
Number of pixels		1024 (horizontal) x 1024 (vertical) pixels
Pixel pitch		0.90 (horizontal) x 0.51 (vertical) mm
Number of colors (gray levels)		16.7 million colors (256 gray Level)
Brightness		750 cd/m <sup>2</sup> (Typical) at white peak
Contrast ratio		500:1 (Typical, no ambient light)
Viewing angle		More than 160°
<b>SIGNAL INPUT AND TERMINALS</b>		
Video	Analog (PC) RGB 1	Format / frequency: R, G, B, H, V/H: 24k to 106kHz, IV: 50 to 85Hz Level/impedance: R, G, B=0.7Vp-p/75Ω Sync: H/V separate sync: TTL, H/V composite sync: TTL, G sync: 0.3Vp-p Connector: mD-Sub 15P x 1
	Analog (PC) RGB 2	Format / frequency: R, G, B, H, V/H: 24k to 106kHz, IV: 50 to 85Hz Level/impedance: R, G, B=0.7Vp-p/75Ω Sync: H/V separate sync: TTL, H/V composite sync: TTL, G sync: 0.3Vp-p Connector: BNC x 5
	Video 1 composite	Format: video or S video (NTSC/PAL/SECAM) Level/impedance: 1.0Vp-p/75Ω Sync: Composite sync: signal Connector: BNC x 1, S terminal x 1
	Video 2 component	Format: Y, Pb, Pr, or Y Cb, Cr Level/impedance: Y=1.0V, Pb/Cb, Pr/Cr=0.7Vp-p/75Ω Synchronization: Y signal Connector: BNC x 3
Audio	4 inputs	Stereo signal supplied with 2 video inputs and 2 RGB inputs: L/R 470mV high impedance RCA pin (L/R) x 4 Connector: D-sub 9p (compatible with RS-232C)
Control terminal		Connector: D-sub 9p (compatible with RS-232C)
<b>SIGNAL OUTPUT</b>		
	Speaker output	8 W + 8 W (8Ω) JETA (speakers not included as accessories)
	Video (Video 1)	Connector BNC x 1 (Not compatible with S-video)
<b>CONTROLS</b>		
Switches/Buttons		Adjustment button (Input changeover, Adjustment menu, Selection, Sound Volume adjustment)
Main adjustment	Video signal RGB signal Audio signal	Contrast, brightness, color, color tone, sharpness Contrast, brightness, display size, vertical position, horizontal position, clock frequencies, clock phase Sound volume, balance, high, low, mute
Remote control		Infrared remote control provided.
Power management		ON/OFF control/VIA signal detection
<b>ENVIRONMENTAL CONDITIONS</b>		
Temperature		5 ~ 35°C
Humidity		20-80 % RH (non-condensation)
<b>REGULATIONS</b>		
Safety		UL1950, CSA C22.2 No.950 (C-UL), EN 60950
EMI		FCC class B, EN55022 class B
<b>SUPPLIED ACCESSORIES</b>		
		AC power cable (L = 5' 11"), interface cable (D-Sub 15P connector, L = 5' 11") infrared remote control unit (2x AA batteries included), user manual

## CORRESPONDING PERSONAL COMPUTER SIGNALS

Signal mode				
Signal	Resolution	Vertical frequencies Hz	Horizontal frequencies KHz	Dot clock frequencies MHz
VGA	640 x 400	70.08	31.47	25.18
	640 x 480	59.94	31.47	25.18
WIDE VGA VESA	640 x 480	59.94	31.47	34.24
	640 x 480	72.81	37.86	31.50
	640 x 480	75.00	37.50	31.50
	640 x 480	85.01	43.27	36.00
	800 x 600	60.32	37.88	40.00
	800 x 600	72.19	48.08	50.00
	800 x 600	75.00	46.88	49.50
	800 x 600	85.06	53.67	56.25
	1024 x 768	60.00	48.36	65.00
	1024 x 768	70.07	56.48	75.00
	1024 x 768	75.03	60.02	78.75
	1024 x 768	85.00	68.68	94.50
	1152 x 864	75.00	67.50	108.00
	1280 x 1024	60.02	63.98	108.00
1280 x 1024	75.03	79.98	135.00	
1280 x 1024	85.02	91.15	157.50	
1600 x 1200	60.00	75.00	162.00	
1600 x 1200	75.00	93.75	202.50	
1600 x 1200	85.00	106.25	229.50	
W-PC BOARD	1024 x 512	75.00	42.00	56.45
1080/60i (RGB)	(1080i)	59.94	33.750	74.25
1080/50i (RGB)	(1080i)	50.00	28.125	74.25
Recommended cycle signal: H/V separate cycle signal				
Apple	640 x 480	66.67	35.00	30.24
	832 x 624	74.55	49.72	57.28
	1024 x 768	75.11	60.24	80.00
	1152 x 870	75.06	68.68	100.00

## CORRESPONDING VIDEO SIGNALS

Signal mode				
Signal	Effective scanning line	Vertical frequencies (Hz)	Horizontal frequencies (KHz)	Signal Input
NTSC, NTSC-4.43, M-PAL (VIDEO)	525	59.94	15.73	Composite signal
PAL, N-PAL, SECAM (VIDEO)	625	50.00	15.63	Composite signal
480/60i	480	59.94	15.73	Composite signal, ITU601
575/60i	575	50.00	15.63	Composite signal, ITU601
480/60P	480	59.94	31.47	Composite signal, SMPTE293M
720/60P	720	59.94	44.96	Composite signal, SMPTE296M
1080/60i	1080	59.94	33.72	Composite signal, SMPTE274M
1035/60i	1035	60.00	33.75	Composite signal, SMPTE240M

\* In some cases, the correct on-screen display may not be achieved due to incompatibilities between the display and the video board or connecting cable. In such cases, please adjust the H. POSITION, V. POSITION, CLOCK and/or PHASE settings. \* Moving pictures may not be displayed correctly if the vertical component of the input signal has a frequency of more than 60Hz. \* This device is designed to distinguish between signals representing horizontal frequency, vertical frequency, horizontal synchronous signal polarity and vertical synchronous signal polarity. However, in the case that all of these signals have identical or similar values, although they are different signals they may be treated as the same signal. \*Please note that in some cases when straight-line pixels are displayed at a resolution of more than 512 lines, the thickness of characters and lines may become uneven.

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\*When a plasma display is turned on, minute dots light up on the screen. Please be aware that in some parts of the screen may not light, while in other parts dots will always light. This is normal and is not a malfunction. \*Please remember that existing images or programs that you display may be protected under copyright law. Compressing or enlarging images for commercial purposes or public display including in cafeterias, hotels, etc., without authorization could be a violation of the rights of the author or copyright holder. Please be sure to obtain any permission required from the copyright holder. \*Do not expose this product to vibration or impact shock, as in some cases this may cause abnormal operation. \*To prevent overheating of the plasma panel, an air cooling system is used. To assure proper operation of this system, the plasma display should be installed and operated in a vertical position. If the display is installed horizontally or at an excessive angle, heat may not be effectively dissipated and overheating could occur. This could lead to a malfunction. \*Do not display the same image or characters continuously for a long period. If you do so, this may cause changes in the visual display elements, resulting in the formation of permanent afterimage. \*In the case that this display is used in a location subject to external lighting, special consideration should be paid to the installation location, etc., in accordance with the situation. \*All on-screen images shown in this catalog are simulated. \*Design and specifications are subject to change without notice.

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