42-INCH HIGH DEFINITION

CMP4201U PLASMA DISPLAY

1080I HDTV FORMAT

(* 1024 VIEWABLE)

- OPTIONAL VIDEO CARD REQUIRED: DIPP (Digital Imaging Pixel Processor) Technology Programmable Video Inputs (up to 3 component inputs) 2/2 (3/2 Pull Down for *NTSC) Motion Adaptive Processing Dynamic Contrast
 Digital Color Management
 P in P (Picture in Picture in standard PC mode)
 - P & P (Picture and Picture in Video 1 & 2 mode)
- DISCRETE MONITOR ID FUNCTION (REMOTE FUNCTION)
- SLEEPTIMER FUNCTION
- FILTER FUNCTION TO REDUCE FLICKERING
- BUILT IN SCREEN SAVERS
- LIFE EXTENTION CONTROL (3 SETTINGS)
- 16:9 ASPECT RATIO
- 16.7 MILLION COLORS
- · OPTIONAL TABLETOP STAND
- OPTIONAL SPEAKERS (10W)
- · OPTIONAL WALL /CEILING MOUNT
- FCC-В

HITACHI Inspire the Next

DIPP: HITACHI PROGRESSIVE TECHNOLOGY TAKEN TO A HIGHER LEVEL

Hitachi is the leader in high picture quality technology, as we continually improve our progressive technology and apply it to various kinds of image display devices. Recently, we have developed the DIPP (Digital Image Pixel Processor), a new concept in high-performance, highspeed processors that combines all of our digital image processing technologies. This processor performs high

picture quality optimum pixel conversion that matches various types of image inputs with their respective image devices. It provides consistent digitally processed image conversion compatible with a 1,024 x 1,024 pixel high-definition panel. As a result, you enjoy images with a greater degree of detail than ever before.

CMP4201U

LASMA DISPLAY



Pixel Processor)

DYNAMIC CONTRAST FOR SHARPLY **DEFINED IMAGES**

Dynamic Contrast automatically detects the amplitude level of the digitally converted input signal in order to reproduce every scene with the finest contrast. Even very bright or dark scenes in movies are dynamically displayed.





Improved Contrast

DIGITAL COLOR MANAGEMENT FOR **BRILLIANT COLOR IMAGES**

By controlling the multiple designated colors, mutually independent color tones and color density without influencing other colors, Digital Color Management provides brilliant color images. It reproduces beautiful whites, deep blue skies, bright crimsons, and verdant greens.



Deep blue sky





Brilliant crimson

Verdant green

· Photos are intended to clarify the effect, so they differ from actual images.

COMPATIBLE WITH A WIDE RANGE OF INPUT SIGNALS FROM VGA TO UXGA

The CMP4201 is compatible with video signals having horizontal scanning frequencies from 15 to 106kHz (Preset Signal Timing Only) and vertical scanning (frame) frequencies from 50 to 85Hz. It can also accept computer signals ranging from VGA to UXGA. And with automatic adjustment functions*2 for PC signal compatibility, phase and clock frequency, it is fully equipped to function as a PC monitor. The Film Theater Mode lets you enjoy images that are free of jerky motion and no different from what you would see in a movie theater.

PERSONAL COMPUTER DISPLAY EXAMPLES



Compression (thinning), expansion, and other processes are carried out to display the above signals. Therefore in Zoom (1-3), depending on the image, flickering may be conspicuous. When this happens, you can reduce it by turning on the filter.

*2 Depending on the signal, perfect automatic adjustment may not be possible. In this case, perform manual adjustment.

*3 REAL display is not possible with certain signals (compatible only with VGA and W-VGA)

MULTI-SCREEN FUNCTIONS

P IN P (PICTURE IN PICTURE) You can display a video image inside a PC display, and also simultaneously display a still picture and a moving image.



P & P (PICTURE & PICTURE) With an optionally available video card, you can simultaneously display Video 1 (composite input) and Video 2 (component input) images side by side.



mages are simulated

REMOTE CONTROL UNIT WITH ID FUNCTION



You can individually control up to seven monitors by assigning an ID number to each one. We've re-designed the remote control unit for easier use, including an Auto Adjust button that automatically adjusts the ideal screen size and position during PC signal input.

LOW POWER CONSUMPTION

• OPERATION MODE SELECTION

This function lowers power consumption and decreases panel degradation by controlling display brightness. You have a choice of three modes: Normal, LIFE EXTEN 1 and LIFE EXTEN 2.

• TIMER

Can be set to turn the power off in 30 minute intervals up to 120 minutes. This is useful when you only want to use the display for a pre-determined time.

• LOW POWER CONSUMPTION OF 350W (When sound not input)

The display has a low power consumption design that restricts power consumption to 350W (2W in Standby mode), while providing high brightness and high contrast.

BUILT-IN STEREO AMPLIFIER

Incorporating a built-in 10W + 10W stereo power amplifier, the CMP4201 can be easily connected to a pair of separately available external speakers for dynamic audio accompaniment to video viewing, presentations, and so on.

CLASS-B COMPLIANCE

The CMP4201 is compliant with EMI Regulation FCC Class-B, which means it generates only minimal electrical interference that should not affect the operation of nearby TVs, VCRs, radios, etc.

ENVIRONMENTALLY FRIENDLY

To protect the environment, the front frame is made from non-halogen resin and no polyvinyl chloride is used in the mechanical parts. In addition, we have reduced the quantity of buffer material used in packing.

INPUT TERMINALS

- The display is equipped with composite video, S-video, and component video terminals. It also has a composite video output terminal as a loop-through function.*
- · Several AV devices can be connected.*
- Component input can be done using the D-sub terminals (RGB1, RGB2).*

*OPTIONAL VIDEO CARD MUST BE USED



PC INPUT TERMINALS

RGB analog signals from two systems can be input to the mD-Sub



NEW ALIS PANEL

THE ALIS METHOD

By emitting light alternately from the even-numbered and odd-numbered lines of discharge electrodes, ALIS achieves a highly detailed vertical display of 1,024 pixels, as well as high brightness. This new version of the ALIS panel delivers the top level of brightness in the industry and clear high-definition images thanks to an improved drive method and new high-efficiency phosphors.



HIGH-DEFINITION DISPLAY

Employing the ALIS method results in fine pixel pitch of about 1.05 million pixels (1,024 by 1,024), the highest in the industry. The panel reproduces high quality highdefinition image sources beautifully and with full detail.



- *1 According to survey by Fujitsu Hitachi Plasma Display Co., Ltd.
- Photos are intended to clarify the effect, so they differ from actual images.

LONG LIFE

Because ALIS system panels have a smaller luminosity duty value than the previously used conventional system panels, this high quality display has a long life.



CMP4201U PLASMA DISPLAY

42-INCH HIGH DEFINITION

MODEL		CMP4201U	
GENERAL			
Power supply		AC 100-120/200-240V	
Frequency		50/60Hz	
Power consumption		350W typical without sound (StandBy: 2.5 W)	
Dimensions Weight		40.55" (W) x 25.5" (H) x 3.5" (D)	
weight		0005, 0 025	
DISPLAY CH	ARACTERISTICS		
Effective display area		36-5/16" x 20-9/16" 16-9	
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 Viewing angle		1000 cd/m ² (at panel before filter) More than 160°	
viewing angle			
SIGNAL INP	UT AND TERMINALS		
Video	Analog (PC) RGB 1	Format / frequency: R, G, B, H, V/fH: 15k to 106kHz	
		Level/impedance: R. G. B=0.7Vp-p/75 Ω	
		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/fH: 15k to 106kHz	
		(Preset limings only), IV: 50 to 85HZ Level/impedance: R. G. B=0.7Vn-p/750	
		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	
		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	
		RCA pin (L/R) x 4	
Control terminal		Connector: D-sub 9p (compatible with RS-232C)	
SIGNAL OU			
SIGNAL OU	Speaker output	10 Watt	
	Video (Video 1)	Connector BNC x 1 (Not compatible with S-video)	
0.01177.0177			
CONTROLS			
Switches/Buttons		Adjustment button (Input change, Adjustment menu, Selection, Sound Volume adjustment)	
Main adjustment	Video signal	Contrast brightness color color tone sharpness	
main adjustment	RGB signal	Contrast, brightness, display size, vertical position.	
	U	horizontal position, clock frequencies, clock phase	
	Audio signal	Sound volume, balance, high, low, mute	
Remote control		Infrared remote control provided.	
Power management		ON/OFF control/VIA signal detection	
ENVIRONM	ENTAL CONDITIONS		
Temperature		5 ~ 35°C	
Humidity		20-80 % RH (non-condensation)	
REGULATIO	NS		
Safety		UL1950, CSA C22.2 No.950 (C-UL), EN 60950	
EMI		FUU Class B, EN55022 class B	
SUPPLIED A	ACCESSORIES		
		AC power cable (L = 5' 11"),	
		interface cable (D-Sub 15P connector; L = 5' 11")	
		Intrared remote control unit (2x AA batteries included),	
OPTIONAL /	ACCESSORIES		
		Video Input Card, Tabletop stand, Speakers,	
		Remote Control	

Resolution Horizontal Dot clock Signal Vertical frequencies Hz frequencies frequencies MHz КНz VGA 640 x 400 70.08 25.18 31.47 640 x 480 59 94 31.47 25.18 WIDE VGA 864 x 480 59.94 31.47 34.24 VESA 640 x 480 72.81 37.86 31.50 640 x 480 75.00 37.50 31.50 85.01 640 x 480 43.27 36.00 800 x 600 60.32 37.88 40.00 800 x 600 72.19 48.08 50.00 75.00 800 x 600 46.88 49.50 800 x 600 85.06 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 75.00 1600 x 1200 60.00 162.00 1600 x 1200 75.00 93.75 1600 x 1200 85.00 106.25 229.50 W-PC BOARD 1024 x 512 75.00 42.00 56.45 (1080i) 1080/60i (RGB) 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 35.00 30.24 66.67 74.55 49.72 57.28 832 x 624 1024 x 768 75.11 80.00 60.24

CORRESPONDING PERSONAL COMPUTER SIGNALS

CORRESPONDING VIDEO SIGNALS

1152 x 870

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
575/50i	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

75.06

68.68

100.00

*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. *Noving 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 be 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. •The display is installed to amalfunction. •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 afterinage. •In the case that this display is used in a location subject to external lighting, special consideration should be paid to the installation clation, etc., in accordance with the situation. •All on-screen images shown in this catalog are simulated.

SALES CONTACT

HITACHI Inspire the Next

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