

CMP4213E & CMP4214E

Plasma Monitor

Technical Specifications

Hitachi PDP (Plasma Display Panel) Monitor, which can only connect with PC.

PICTURE	
Screen size	42"/106cmV
Screen type	Plasma
Pixels	1024 x 1024
Pixel pitch	0.90 (horizontal) x 0.51 (vertical) mm
Colours	16.7 Million
Gray level	256
Panel Luminance (Typical)	1100 cd/m ²
Contrast	1000:1
AUDIO	
RMS Output	2 x 12W
Surround Sound	Matrix
TRUBASS	•
1 bit AMP	•
CONNECTION	
Connector RGB2 (analogue)	15 Pin D-sub
Control (RS232C)	9 Pin D-sub, RS232C 9600bps
Audio for RGB2	L/R mini-headphone jack
COMPUTER INPUT Ω	
RGB2	15 Pin D-Sub
Video Format	RGB analogue, 0.7V _{pp} , 75 Ω
Sync level	H/V Separate Sync and H/V Composite Sync: TTL level Sync on Green: 0.3V _{pp} , 75 Ω
Frequency	Horizontal: 24-106kHz, Vertical: 50-85Hz
Audio	Stereo, 470mV High Impedance
CONTROLS	
RGB	Contrast, Brightness, Display Size, Vertical Position, Horizontal Position, Clock, Phase
Colour Temperature	COOL: 12,000K, NORMAL: 9,300K, WARM: 6,500K USER: manual adjustment
Audio	Volume, Balance, Treble, Bass, Mute
Remote Control	Power, Volume Up/Down, Mute, Input Select, Adjustment Menu, ID select
RS232C	9 Pin D-sub Control through PC
GENERAL	
Voltage	AC 100-240V/50-60Hz
Power Consumption	365
Stand-by	<3W
Weight	34.9kg
Dimensions (WxHxD)	1030 x 636 x 90 mm
Stand	Optional (Swivel)
OPERATING CONDITION	
Temperature	5 -35°
Humidity	20 -80% (non-condensing)
Pressure	800 -1114 hPa (reference value: max altitude 1888m)
CERTIFICATION	
Safety	EN60950
EMI	EN55022 class B
CE	EN55024, EN61000-3-2, EN61000-3-3
ORDERING INFORMATION	
KT	with Optional Video Upgrade Card
V	with Optional Video Upgrade Card fitted prior to delivery*
CMPAD05	Optional Table Mount
CMPAK345	Optional Wall Mount

Optional Video Board

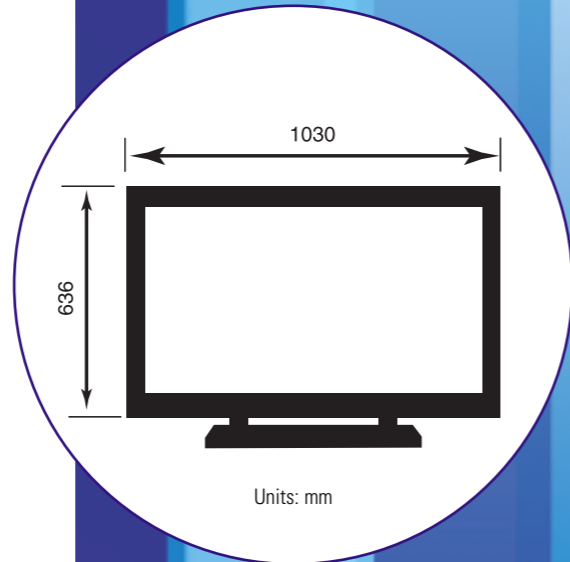
COMPOSITE VIDEO INPUT*	
Format	PAL/SECAM/NTSC, Composite & S-Video
Signal Level	1.0Vp-p, 75Ω, Composite Sync
Connectors	Video: Phono x 1, S terminal x 1 Audio: Phono (L/R) x 1
Video Format	Loop through on composite only, BNC x 1, 75Ω
COMPONENT VIDEO INPUT*	
Format	Y, P _s , P _r or Y, C _b , C _r
Signal Level	Y=1.0V; P _s , C _b , P _r , C _r =0.7Vp-p, 75Ω Sync. on Y
Connectors	Video: Phono x 3 Audio: Phono (L/R) x 1
Screen Adjustment*	Contrast, Brightness, Colour, Colour Tone, Sharpness

* Optional Video Board can be fitted prior to delivery.

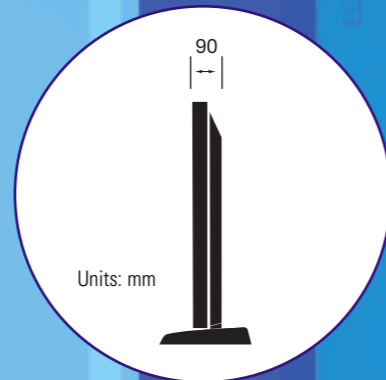
• XGA and VGA are registered trademarks of IBM Corp. Macintosh is a registered trademark of Apple Computer, Inc. All other brand names and product names are trademarks, registered trademarks or trade names of their respective holders.

• 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.
• 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.

• All on-screen images shown in this catalogue are simulated.
• Design and specifications are subject to change without notice.



Monitor Dimensions



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The specification above and photography is for reference only and may be subject to change

01/04

TENTATIVE

CMP4213E

CMP4214E

High Performance 42"
Plasma Display



www.hitachidigitalmedia.com

- 42" 16:9 Aspect Ratio Plasma Display
- New H³ Panel and I² Intelligent Image Chip
- High Resolution ALIS Technology
- Comprehensive Computer Inputs
- Life Extension Mode

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Inspire the Next

HIGH PERFORMANCE 42" PLASMA DISPLAY

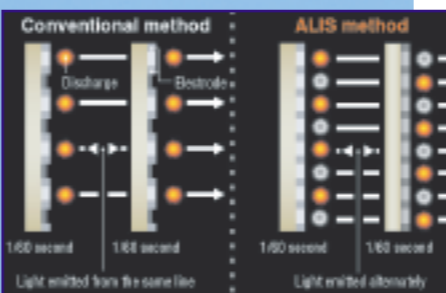
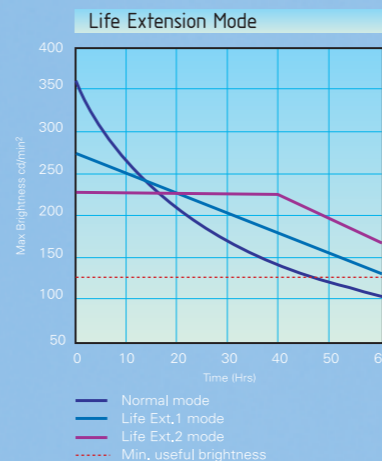
CMP4213E & CMP4214E Features

Hitachi's new CMP4213E & CMP4214E plasma displays incorporate a host of new technology features, which combine to produce the ultimate in picture performance. With 1024 x 1024 pixel high-resolution, 16:9 aspect ratio screen and an extra-high peak white brightness level of 1100cd/m², this Plasma display provides a higher quality picture. Among other technical advances featured are Hitachi's I² Intelligent Image Chip, which enables high quality progressive scan processing and high speed digital processing. Capable of conveying the breathtaking beauty of high resolution images and the minute details and crisp colours of high resolution computer generated graphics, this slim and space saving wide-screen display is ideal for visual communication applications.

Hitachi's Plasma Display Promotes Effective Communication in a Wide Range of Situations



Hitachi's I² Intelligent Image Chip



Selection mode		
NORMAL	FULL	ZOOM
VGA: 640x480 VGA: 800x600 VGA: 1024x768	VGA: 640x480 VGA: 800x600 VGA: 1024x768 SXGA: 1280x800	VGA: 640x480 VGA: 800x600 VGA: 1024x768 SXGA: 1280x800 UXGA: 1600x1200
4:3	16:9	4:3
SXGA		
5:4		

Scroll according to vertical position

H³ Panel - Improved Brightness and Contrast

Designed to deliver outstanding picture quality, the CMP4213E & CMP4214E incorporates Hitachi's new H³ Panel which delivers dynamic contrast and improved brightness. With a contrast ratio of 1000:1 and panel brightness of 1100 cd/m², this display reproduces amazing quality pictures.

Refinements to the phosphors and drive system have raised the brightness of the H³ Panel by 10%, while new optical characteristics of the panel and front filter have improved both overall image brightness and made colour reproduction more natural.

I² Intelligent Image Chip

The CMP4213E & CMP4214E features Hitachi's new I² Intelligent Image Chip which enables high quality progressive scan processing and high speed digital processing. This ensures the best contrast level for all signals that are run through the display panel. The Digital colour management allows tint and black levels to be independently controlled so that vivid and natural pictures can be obtained without affecting other colours. With 1024p High Performance Signal Processor, this feature can overlap the fields to create more lines resulting in clearer, sharper picture quality, whilst also scanning pages/information far quicker to reduce flicker.

Life Extension Mode

The CMP4213E & CMP4214E is equipped with Life Extension Mode that limits the maximum brightness to either 75% or 60% and gradually increases the setting over time to keep the picture brightness constant. This can increase panel life by as much as 67%.

Video Upgrade Board*

The KT option on the Video Upgrade Board provides the following inputs to accommodate today's wide variety of signal sources.

These include:

- Component/Composite Video for DVD/VCR
- Component or RGB/Composite for DVD/Set Top Box
- S-Video/Composite for VCR/Camcorder
- SCART (RGB/S-Video/Composite for DVD/Set Top Box/VCR)

ALIS Technology

The CMP4213E & CMP4214E employs Hitachi's ALIS (Alternate Lighting of Surfaces) technology to achieve high resolution and high brightness. ALIS employs two closely spaced lines of phosphors for each line of a conventional screen and emits light from each line alternately. The result is a smoother more natural image without the obvious black lines between pixels that conventional panels display. Because ALIS uses different electrodes for odd and even lines, each electrode is only on for half the time of a conventional panel.

This reduced duty cycle significantly increases the screen's effective working life.

Multi-Scanning from VGA to UXGA

The CMP4213E & CMP4214E accepts video signals with horizontal scanning frequencies from 24kHz to 106kHz and vertical scanning (or frame) frequencies of between 50Hz and 85Hz. As a result, this display is capable of producing high quality pictures from almost any type of PC video output signal ranging from VGA to UXGA. Three screen modes are available to suit particular signal sources and applications. These modes are NORMAL (no change in the aspect ratio), FULL (enlargement/reduction of the aspect ratio to make the image fill the 16:9 screen), and ZOOM (no change in the aspect ratio but with vertical scrolling of the image on the screen). On top of this the CMP4213E & CMP4214E also has a full complement of features that makes this display ideal for use as a PC monitor including automatic adjustment functions for PC signal compatibility, phase and clock frequency.

Multi Picture Modes

To add to the flexibility for presentations, this new feature, Multi Picture Modes, allows you to show a split screen with two images. This can be a choice of Picture and Picture or Picture in PC and is ideal for visual communication applications. (Only available when optional KT Video Board fitted - Please see Ordering Information section overleaf).

Manual Adjustable White Balance

This function allows you to set any desired colour temperature to achieve the correct white balance. In addition to three fixed modes, there is a selector/manual mode that allows the user to precisely set each of the RGB colours separately to produce the exact desired result.

Features for Reduced Image Retention

The CMP4213E & CMP4214E has sophisticated screen saver features that enable the user to shift the picture by a variable number of pixels and time to help prevent static images marking the screen.

If these functions are employed when high contrast elements are displayed, image retention effects can be substantially reduced. In addition, this model has an input signal reverse display function and a whole-screen white display that refreshes the screen if any temporarily retained images are visible.

Compact and Versatile

While the CMP4213E & CMP4214E's 42-inch screen measures 922 x 522mm, the slim and lightweight unit is only 89mm in depth and weighs just 31kg (excluding the table stand). In addition to desktop use with the optional table stand, the display can be mounted on to a ceiling or wall using one of a variety of optional mounting units, in horizontal and vertical formats.

Built-in Stereo Amplifier

Equipped with built-in 10W per channel stereo power amplifier, the CMP4213E & CMP4214E can be connected to a pair of optional external speakers to provide a dynamic audio accompaniment to viewing, presentations, etc.

Easy on the Environment

To make the CMP4213E & CMP4214E as environmentally friendly as possible, Hitachi has reduced the number of components contained within each Plasma, and make effective use of natural resources wherever possible. This has reduced the number of hazardous materials used by utilising lead free and non halogen resin, resulting in a more energy efficient panel.

Options

Table Mount
CMPAD15
700(W) x 185(H) x 300(D) mm

Wall Mount
CMPAK345 (angled)
536(W) x 575(H) x 22(D) mm

Optional Speakers
CMPAS04S
100(W) x 636(H) x 90(D) mm

Speaker Stands
SPUST42
Fits CMPAS04S Speakers
180(W) x 235(H) x 180(D) mm



* Speakers shown are an optional extra