

CP-X980W

- 2800 ANSI Lumens
- Only 6.4kg
- Motion Adaptive Progressive Scan
- High Connectivity for Computer and Video

With an output of 2800 ANSI lumens and XGA resolution the CP-X980W is ideal for making presentations with detailed content in medium to large venues. With its full function remote control it is suitable for installation, but at only 6.4kg is light enough to be easily portable. Computer generated images are displayed crisply and with excellent contrast. Video quality is unmatched thanks to advances like Hitachi's unique Motion Adaptive Progressive Scan system (MAPS). A component video input ensures the best quality pictures from DVD, while other input options include DVI, composite video, S-video and analogue RGB. Standard features include a remote control with laser pointer and mouse function, digital keystone correction, digital magnification, image freeze, picture-in-picture and a soft carrying case.

Excellent Connectivity

The CP-X980W offers virtually every input connection required to accommodate today's media sources. Video inputs cater for component, S-video and composite formats together with stereo audio. On the computer side there are two analogue RGB inputs and a digital visual interface (DVI-D), again with stereo audio. Every input can be connected simultaneously to a signal source and the projector's output switched between them - taking advantage of the image freeze feature to avoid any transient on-screen noise during switching.

Superb Video Quality

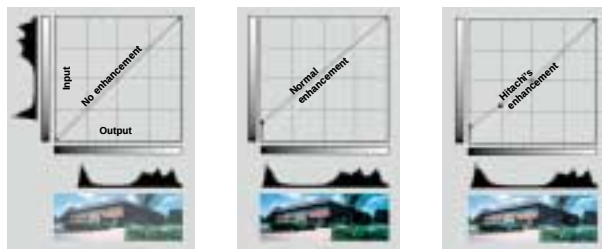
The CP-X980W incorporates a number of advanced techniques to produce remarkable video quality. Hitachi's own MAPS system gives a major improvement over other projectors and even standard TV displays where fast moving objects are displayed. Other improvements in video quality are provided by black level enhancement and noise reduction.

Motion Adaptive Progressive Scan (MAPS)

The CP-X980W uses a memory buffer to store the two fields making up an image which are then combined as a single frame and projected twice - progressive scanning. Compared to normal "line doubling" this improves resolution and avoids line flicker. Even progressive scanning can't prevent the broken up appearance of objects that move rapidly across the picture, as the alternate lines of the object are shifted between the first and second field of the image. The CP-X980W uses sophisticated image processing techniques to isolate a moving object. Its field lines are aligned and combined, and the object shown in its correct position in each frame - Motion Adaptive Progressive Scanning.

Black Level Enhancement

In most video images the darkest areas of the picture are not fully black. By forcing these areas to black the perceived quality of the projected image can often be improved. Normally, black enhancement is a linear adjustment which proportionately darkens all areas of the picture causing an unwelcome reduction in midrange brightness. Hitachi's advanced black enhancement method avoids this by applying a measured adjustment to the darker areas while leaving the brighter areas unaffected.



Noise reduction

The CP-X980W also uses digital image processing to reduce excessive image noise. By continually comparing the value of each pixel over successive fields, any abrupt or isolated change can be identified and suppressed resulting in a cleaner sharper image.

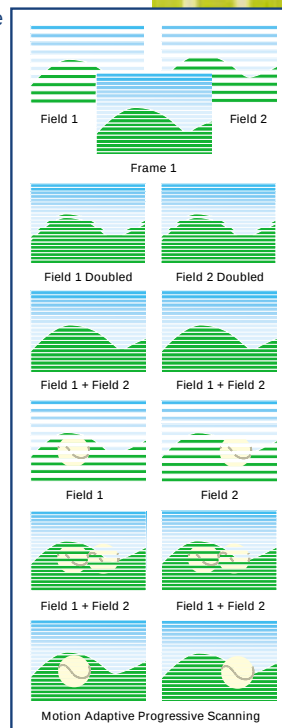


Reduced
excessive
image noise



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Inspire the Next

Lumens
ANSI
2800



'High Connectivity
for computer screen'.

CP-X980W

Technical Specifications

OPTICAL

Optical Structure	3 LCD panels, one projection lens, RGB shutter method
LCD Panel	1.3", P-Si TFT panel x 3, stripe pixel configuration
Resolution	Computer: 1024 x 768 (XGA) Video: 500 TV lines
Lens	F1.7-2.3, f=37.9-57.6mm, Power zoom 1.3 x Power focus
Lamp	250W UHB
Lamp Life	1500 hours
Brightness	2800 ANSI lumens
Contrast Ratio	300:1
Focus Distance	1.1m-11m
Display Size	30"-300"
Colour	8 bits/colour, 16.7M colours

COMPATIBILITY

Composite Video	NTSC, PAL (-BGDHI), SECAM, PAL-M, PAL-N
Component Video	480i, 480p, 720p and 1080i
Computer	PC, Mac, Workstation, VGA, SVGA, XGA, SXGA (smart resizing),
Plug & Play	DDC1/2B at RGB1, DDC2B at DVI
Frequency Range	Vertical: 60-120Hz, horizontal: 31.5-80kHz on RGB

FEATURES

Keystone Correction	Fixed 20:1 upward shift, plus vertical digital correction
Video Output	Motion Adaptive Progressive Scan, advanced black level enhancement, noise reduction, Theatre Mode 3-2 pull down for NTSC
Image Control	2x digital magnification, freeze frame, picture-in-picture, mirror reverse & invert image
User Controls	Remote control with laser pointer, mouse control, on screen menu system in 9 languages
Speakers	1.2W x 2
Other	Ceiling mountable

CONNECTORS

Computer Input	2 x RGB analogue - 15-pin mini D-sub 1 x RGB digital - DVI-D (no analogue)
Video Input	2 x Audio - stereo mini-jack 1 x S-Video - mini-DIN 4 pin 1 x Composite - phono 1 x Component - phono 1 x Audio - phono L & R
RGB Output	1 x Analogue - 15-pin mini D-sub
Audio Output	1 x Audio - stereo mini-jack
Control	1 x RS-232C and mouse - 15-pin mini D-sub 1 x USB

POWER

Power Supply	90-132/198-264V AC, 50/60Hz
Power Consumption	400W

PHYSICAL

Dimensions (excluding lens & legs)	289 x 119 x 345mm (W x H x D)
Weight	6.4kg
Noise Level	<40dB
Approvals	CE, TÜV, UL and FCC

SUPPLIED WITH

Remote Control with Laser Pointer and Mouse Function
Soft Carrying Case
Power Cord (US, UK, Europe)
RCA Video/Audio Cable
PS/2 Mouse Cable
S-VHS Video Cable
Serial Mouse Cable
AA Batteries x 2
RGB Cable

OPTIONS

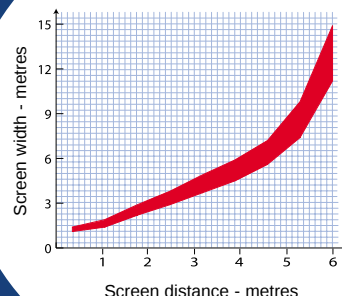
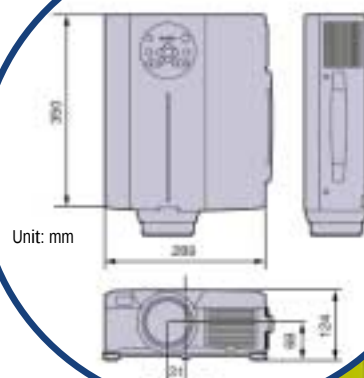
Wheeled hard flight case (HCC3)
Wide angle lens converter (WL201)

Image Size		Projection Distance	
		CP-X980W	
Diagonal	Width (m)	Min (m)	Max (m)
30" (0.76)	0.61	1.1	1.4
40" (1.02)	0.81	1.4	1.9
60" (1.52)	1.22	2.2	2.9
80" (2.03)	1.63	2.9	3.8
100" (2.54)	2.03	3.7	4.9
120" (3.05)	2.44	4.5	5.9
150" (3.81)	3.05	5.6	7.2
200" (5.08)	4.06	7.4	9.8
300" (7.62)	6.10	11.2	14.9

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Projector Dimensions



Screen Dimensions

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