

HCCWD484X

Honeywell



WIDE DYNAMIC CAMERA

Wide Dynamic Camera

Honeywell's HCCWD484X is the ideal camera for environments with high contrast and changing light conditions. Using Next Generation Image Capture Technology, images are converted from analog to a digital format within each pixel immediately after the image is captured. Even in high-contrast lighting conditions, the HCCWD484X delivers higher-quality images; significantly better dynamic range (120dB max) and higher frame rates than CCD cameras.

Another area where the HCCWD484X separates itself from the competition is shutter speed. While conventional cameras record

every pixel in a frame at the same shutter speed, the HCCWD484X has 388,800 independent shutter speeds based on a 720 x 540 screen and it records each pixel at its optimum shutter speed, ensuring proper exposure and crystal clear imaging.

The HCCWD484X's Next Generation Image Capture Technology allows each pixel to act as its own camera, optimising the exposure time for each pixel. This results in correct colour rendering and capturing of details in all applications including high contrast, where CCD cameras would render the same scene washed out or under exposed.

Next Generation Image Capture Technology also eliminates multiple processing steps prior to being digitised and stored, which significantly reduces noise. This delivers crisp, high-resolution images without the presence of image artifacts, such as blooming or smearing, in both moving and still pictures.

Set-up is a snap and the HCCWD484X can be customised with on-screen displays and preset modes. Suggested applications include lobbies, entrances, outdoor areas and any location subjected to high contrast and changing light conditions.

Features

- 1/3" Wide Dynamic Digital Imager
- True colour in low light conditions
- 14-bit digital processing
- Independent per-pixel exposure
- Dynamic range: 95 dB typical / 120 dB max - 100 to 200 times greater than conventional CCD cameras
- Higher frame rates - 50/60 fps progressive video capture
- 0.4 lux @ F1.2
- 12 VDC or 24 VAC with line lock
- DC, and Video and Manual Iris

Specifications

Signal Format

- NTSC or PAL (switch selectable)

Imager Format

- 1/3" WDR digital image device

Resolution

- 480 TVL

Number of Effective Pixels

- 380,000 Pixels (720H X 540V)

Dynamic Range

- 95 dB typical/120 dB max

S/N Ratio

- 52 dB typical

Video Output

- 1 Vp-p, 75 Ohms

Light Sensitivity

- 0.4 lux @ F1.2

Color Balance

- ATW, ATW-WIDE, MANUAL / HOLD (2,000 to 11,000K)

AGC Control

- Off/On (0 - 44 dB max)

Sync. System

- Internal or line-lock

Scanning System

- 525/60 lines (NTSC); 625/50 lines (PAL)

V-Phase

- Adjustable line-lock vertical phase

ALC

- Adjustable level control for direct drive auto-iris lenses

Power Supply

- 12 VDC / 24 VAC

Power Consumption

- 4.5 W (complete system)

Surge Suppression

- 1.5 kW transient

Lens Mount

- C/CS adjustable mounting ring

Camera Mount

- 1/4-20 UNC (top and bottom)

Housing Material

- Aluminum

Dimensions (WxHxD)

- 2.7 in. x 2.4 in. x 4.9 in.
68.6 mm x 62 mm x 125.2 mm

Weight

- 12 oz. (340 g) camera only

Video Output

- BNC connector

Power Input

- 2-pin screw terminal

Power Indicator

- LED

Operating Temperature

- 14°F to 113°F (-10°C to 45°C)

Relative Humidity

- 20% to 80%

Ordering

HCCWD484X NTSC

HCCWD484X PAL

Suggested Lenses

HLD29V8F95L 2.9 - 8 mm F0.95 Vari-focal Auto Iris Lens

HLD27V13DNL 2.7 - 13 mm F1.3 Vari-focal Auto Iris Lens

HLD5V50F13L 5 - 50 mm F1.3 Vari-focal Auto Iris Lens

Design and specifications subject to change without notice.

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