



CH22PH (12VDC/24VAC)

CH23PH (230VAC)

Wide Dynamic Range True Day Night Camera

Features

- IPE-DSP Technology
- >504 TV Line Resolution
- Sharpness Enhancement feature
- 120dB Dynamic Range
- True Day / Night, with external trigger facility
- Electronic Slow shutter to max 255x
- Digital Noise Reduction
- On Screen Display for local configuration
- RS485 interface for remote control

The CH series of cameras incorporates Wide Dynamic Range features into a True Day / Night camera with IR sensitivity. The Wide Dynamic range is achieved by using new Individual Pixel Exposure - Digital Signal Processing technology. The IPE-DSP system allows the camera to correctly resolve images with an extremely wide dynamic range by controlling the exposure of each pixel on the sensor individually. With a number of standard light metering presets and user configurable options, coupled with On-Screen menus and RS485 control make this camera an ideal solution for situations with the most demanding lighting conditions.

General Specifications

| | | |
|-----------------------|--------------------------------|--|
| Pixel Element | Pixim Orca | |
| Image Size | 720(H) x 540(V) PAL | 720(H) x 540(V) NTSC |
| Scanning Frequency | PAL 2:1 Interlace | NTSC 2:1 Interlace |
| | H:15625Hz V:50.0Hz | H:15734Hz V:59.94Hz |
| Format | 1/3" CS | |
| Operating Temperature | -10°C ~ +50°C | |
| Storage Temperature | -20°C ~ +60°C | |
| Output Terminal | 75Ω BNC - Unbalanced | |
| Power Source | Low-Voltage variant | 19VAC~29VAC / 10.8VDC~28VDC (CH22PH) |
| | Mains Variant | 100VAC~240VAC (CH23PH) |
| Power Consumption | 4.5W Max | |
| Power Indication | 3mm Ø LED on rear panel | |
| Iris connection | Video Drive | 3 pin terminal on rear panel |
| | DC Drive | 4pin connector on rear panel (Panasonic™ standard) |
| Lens Mount | CS-mount 5mm ±1.0mm | |
| Camera Mount | 1/4" BSW thread - Top & bottom | |
| Dimensions | Metric | 73mm(W) x 63mm(H) x 122mm (L) |
| | Imperial | 2.87" (W) x 2.48" (H) x 4.8" (L) |
| Weight | 370g net / 13.1oz net | |

Certifications

CE
FCC
UL

Continued on reverse



CH22PH CH23PH

(12VDC/24VAC)

(230VAC)

(Continued)

Wide Dynamic Range True Day Night Camera

Functional Specifications

| | |
|---------------------------|---|
| Exposure Control | Gain Control, Shutter Control, Wide Dynamic, Manual 120 dB max. |
| Wide Dynamic Range | Max 32 times (Default 2x) |
| Slow Shutter | Manual Slow Shutter |
| MES | Max 255x (Default 2x) |
| DSS | Area x 4 (1x user configurable) |
| BLC | AWB, ATW, MWB |
| White Balance | Standard Range: 2800°K ~ 7500°K |
| Auto White Balance Ranges | Extended Range: 2000°K ~ 11000°K |
| Day & Night | True Day Night - with removable filter |
| SYNC System | INT, L/L (PAL: 47.5Hz~52Hz. NTSC:57Hz~62.4Hz) |
| Digital Zoom | x3 Max |

Video Specifications

| | |
|--------------------------------|---|
| Resolution | Normal Mode: >504 TV Line TDN Mode: 570TV Line |
| Minimum Illumination | Normal Mode: <1.7Lux @ F1.2 TDN Mode: 0.3Lux @F1.2 |
| Video Output | 1.0Vpp 75Ω unbalanced |
| S/N ratio | >42dB @ F1.2 50 IRE |
| White Clip | 100 IRE |
| Pedestal Level | 7.5 IRE |
| Sync Level | 40 IRE |
| Burst Level | 40 IRE |
| H Aperture | 10IRE (γ0.45 100 IRE Video Output) |
| V Aperture | 10IRE (γ0.45 100 IRE Video Output) |
| Gamma Correction | 0.45 |
| Horizontal Flip (Mirror Image) | Yes |

Functional Control and Adjustment

| | |
|-------------------------|------------------------------|
| OSD (On Screen Display) | Yes |
| Remote Control | RS485 Two way communications |