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Data Sheet

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ICMOS-1280

Day/Night Intensified Digital CMOS Camera

FOR USE IN THE UNITED STATES ONLY



Simple Connection:

- CameraLink for camera control and digital image output;
- Single power input for both the camera and the intensifier.

Features:

- ✓ 1280 x 1024 Active Pixels
- ✓ GEN III Image Intensifier with Pinnacle Performance
- ✓ 30 fps operation (full frame exposure)
- ✓ 12-bit Pixel Clock Sampling
- ✓ Complete Package Size: 45 mm x 50 mm x 75 mm
- ✓ Standard 'C' Lens Mount
- ✓ Digital Control of All Camera Functions
- ✓ Automatic Intensifier Gain Control
- ✓ 800+ TVL of Resolution
- ✓ 1" Image Format
- ✓ <1% Distortion

The ICMOS-1280 is an intensified digital CMOS camera. It provides a digital output of 1280 x 1024 active pixels at 30 fps. All of the camera functions are computer controlled via the CameraLink interface. The intensifier gain is automatically adjusted according to input brightness. Optional automatic gate control adjusts the gate pulse-width according to input brightness.

The GEN III Image Intensifier with Pinnacle performance provides better image quality with smaller Halo, higher Signal to Noise Ratio and more contrast than conventional GEN III Image Intensifiers.

Specifications:

Intensifier Type	GEN III Image Intensifier with Pinnacle Performance
Sensitivity	Photometric, $<1.0 \times 10^{-7}$ fc on the faceplate using a 2845K light source at 30 fps
Resolution	>800 TVL
Array Size	1280 (H) x 1024 (V)
Input Format	12.3 mm (H) x 9.8 mm (V) (1" format)
Geometric Distortion	<1%
Digital Output	CameraLink
Software Control	Camera Gain, Camera Black Level, Camera Frame Rate/Exposure
Automatic Day/Night Operation	Automatic Intensifier Gain Control provides constant output at various input light levels/Optional Automatic Intensifier Gate Control provides even wider input dynamic range suitable for day/night operation
Input Dynamic Range with Automatic Intensifier Gain Control	10^{-7} to 10^{-4} fc (without changing lens stop or camera gain)
Input Dynamic Range with Optional Automatic Gate Control	10^{-7} to 10^3 fc (without changing lens stop or camera gain)
Intensifier Life	10,000 hours at low light level (10^{-5} fc or lower)
Camera Dimension	45 mm x 50 mm x 75 mm