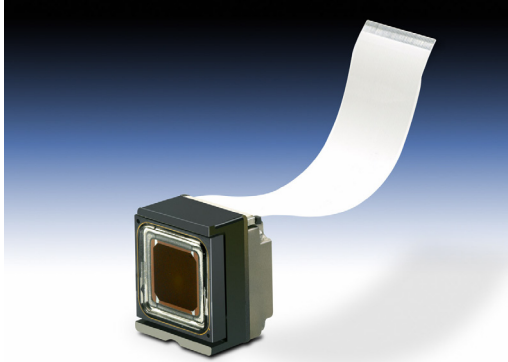


Innovation At the Speed of Light[®]

E3010M Digital Image Intensifier (DI²)[™]

- **“Plug and Play” Module**
- **Environmentally Hardened**
- **Compact**
- **Lightweight (57g)**
- **Low Power (<400mW)**



The E3010M digital image intensifier (DI²) is a self-contained sensor module that was specifically designed for integration into imaging systems such as head/helmet-mounted displays, rifle sights and small EO/IR surveillance platforms. It is small, lightweight, and low power.

The E3010M incorporates an SXGA (1280 X 1024 pixels) electron bombarded CMOS sensor, high voltage power supply, low voltage power supply, FLASH memory (containing image correction parameters), all potted into a connectorized housing for reliability and environmental ruggedness. The module has a single connector for sensor control and clocking, communication, video out and power input.

The E3010M can be supplied with or without Intevac video processing electronics to facilitate integration into a wide range of compact imaging systems.

Specifications

Image Format	1280 x 1024 pixels (SXGA resolution)
Pixel Size	10.8 μm square
Bandwidth	500nm – 900nm (Gen III GaAs photocathode)
Dynamic Range	Twilight to starlight; Day operation with HVPS off (NIR band)
Limiting High Light Level Intensified Resolution	≥ 45 lp/mm (1280 lines)
High Voltage Power Supply (HVPS)	Duty cycled for Dynamic Range Control
Steady State Power Consumption	< 400mW at 3.3VDC
Video Output	10-bit parallel digital output, 30Hz progressive scan at full resolution
Size	Approx. 1.2” x 1.0” x 1.3”
Weight	≤ 57 grams (packaged with HVPS)
Defective Pixels	> 99% functional pixels
Other Specifications	Provided upon request

NOTE: This product is under the export control of the Office of Defense Trade Controls, U.S. Department of State, and is subject to the International Traffic in Arms Regulations. Transshipment to any destination outside of the United States without the knowledge and consent of the Office of Defense Trade Controls is strictly prohibited.