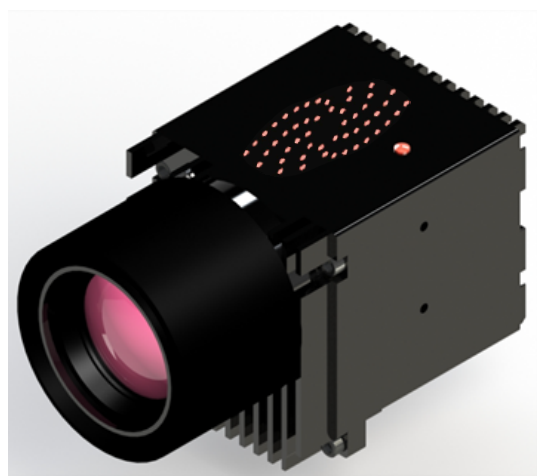






ATOM[®]1280

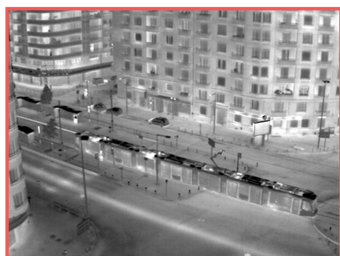


1280 × 1024 | 12 μ m Microbolometer Camera Core

FULLY-PACKAGED SXGA INFRARED CAMERA CORE FOR LIMITLESS APPLICATIONS



-  **HIGH-QUALITY, LARGE FOV IMAGES**
-  **LOW SWaP**
-  **HIGH SENSITIVITY**
-  **LONGER RANGE**



DEFENSE

SURVEILLANCE

LEISURE

THERMOGRAPHY



•• HIGHER SENSITIVITY BRINGS ENDLESS POSSIBILITIES ••

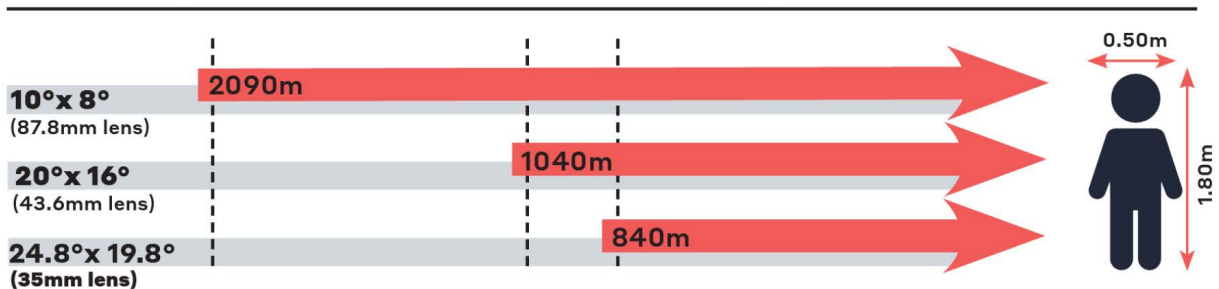
HIGH-QUALITY LARGE FOV IMAGE

Resolution	■ 1280 × 1024
Sharp contrast	■ Thermal sensitivity < 50 mK, (f/1, 300K, 30Hz)
Operating temperature	■ [-40°C; +60°C]
Fluid and smooth image	■ Frame rate up to 60Hz
Detector pixel pitch	■ 12 μm

EASY IMPLEMENTATION

Dimensions	■ 63.7 x 57 x 53 mm (no lens included)
Weight	■ <300g
Power draw	■ <6W (typical)

Human recognition distance with f/1 optics (perfect OTF & 88% typical transmission)



Range for Johnson's criteria @ 50% probability, 2K DeltaT vs background, perfect atmosphere, real LYNRED pixel MTF, sensor NETD = 50mK

ADDITIONAL FEATURES

Integration Ready	CameraLink, 3G-SDI*, MIPI*, USB3*
Exportability	Dual-use export classification
Lens Integration	Standard lenses + fully integrated continuous zoom optics
Image Enhancement	AGC (tone-mapping), contrast enhancement, spatial & temporal filtering
Shutter	Mechanically integrated shutter

* feature currently in development