EXOSENS 4G High Gain Image Intensifier Tube



- Exceptionally High Gain - to dramatically improve target detection, recognition, and identification in extreme low-light or zero-light environments by boosting ambient light multiplication.
- Rapid Auto-Gating - to maintain image clarity and protect the tube when transitioning between dark environments and sudden bright light sources.
- Broad high-sensitivity spectral range from 350 nm up to 1100 nm – to cover near-infrared and visible light

The EXOSENS 4G High Gain Image Intensifier Tube stands out in the Exosens product line. Its high gain is approximately three times greater than the gain of the other models. This makes it indispensable for professional use in conditions with extremely low illumination.

The image intensifier assembly features an 18 mm micro-channel wafer with a minimum useful photocathode and phosphor screen diameter of 17.5 mm. The assembly employs a micro-channel electron multiplier plate with proximity focus on the input and output. The assembly includes the high voltage multiplier and oscillator and is encapsulated within a hard surface insulating sleeve or boot and assembled in a hard plastic housing. The tube is equipped with an external gain control.

SPECIFICATIONS	Minimal	Maximal	UNIT
FOM (Figure of Merit)	1800		
Signal-to-Noise-Ratio	28		
Operational Lifetime	10000		hours
Gain at 2.10^{-5} lx	24000	28000	cd/m2/lx
Limiting resolution at centre	64		lp/mm
E.B.I.		0.25	µlx
Useful cathode diameter	17.5		mm
Halo (illumination spot 0.35mm)		0.95	mm
Weight		75	g

1 Hunter Street East, Ground Floor, Hamilton, Ontario, L8N 3W1 Canada
E-mail: mail@alphaopticsinc.com T: +1-289-238-9922
www.alphaopticsinc.com