

MX10130 LEVEL 1 (FOM 1600)

GEN 3 IMAGE INTENSIFIER TUBES



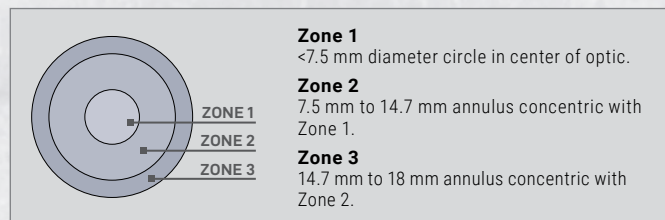
AGM 10130 Series 18 mm Gen 3 Image Intensifiers are designed for use in all variants of the AN/PVS-7 type night vision goggles and night vision clip on systems. Each of these Image Intensifiers features a high-efficiency gallium arsenide photocathode bonded to a glass input window, a Microchannel Plate electron amplifier and P-43 (green) or P-45 (white) phosphor screen on a non-inverting fiber-optic output window. AGM IIT offers high signal-to-noise ratio and high resolution which in turn provide user with extended detection range along with excellent identification in low-light conditions. AGM IITs are equipped with Auto-Gated power supply for top performance in dynamic lighting environments.

AGM 10130 Series 18 mm Gen 3 Image Intensifiers can be used in night vision devices such as PVS-7, FoxBat-LE, Comanche-22, along with number of other systems available on consumer market.

AGM 10130-F1600 IITs are designed to give optimal performance while being in compliance with FOM 1600 export requirements.

MAXIMUM SPOTS ALLOWED IN EACH ZONE

Spot Size (mkm)	Zone 1	Zone 2	Zone 3
> 150 or larger	0	0	0
> 120 – 150	0	0	0
> 90 – 120	0	0	0
> 60 – 90	0	1	2
30 – 60	1	2	3
Total Spots	3 spots maximum allowed		



Described equipment cannot be exported without a valid export license issued by the U.S. Department of State, Office of Defense Trade Controls as prescribed in the International Traffic in Arms Regulation (ITAR), Title 22, Code of Federal Regulation, Parts 120-130 or 15. CFR 730-774.

ITAR WARNING: U.S. State Dept. authority for export of such equipment from US is required.

Resolution, lp/mm	64-72
Photocathode Sensitivity @2856° K, $\mu\text{A}/\text{lm}$ @880 nm mA/W	1800 80
Signal-to-Noise Ratio (minimum)	21
FOM	1600
Halo, mm (maximum)	1.5
EBI, $\text{X}10^{-11} \text{ lm}/\text{cm}^2$ (maximum)	2.5
Luminous Gain, fL/fc @ $2 \times 10^{-6} \text{ fc}$ (minimum-maximum) @ $2 \times 10^{-4} \text{ fc}$ (minimum-maximum)	50000-80000 14000-21000
Output Brightness, fL @1 and 20 fc	2.8-4.2
MTF (minimum) @2.5 lp/mm @7.5 lp/mm @15.0 lp/mm @25.0 lp/mm	Info only Info only 61% 38%
Reliability, Hours (minimum)	10000
Photocathode Diameter, mm (minimum)	17.5
Voltage (Vdc)	2-3
Current, mA (maximum)	45
Power Supply	Auto-gated

Specifications subject to change without notice.

NON-EXPORT CONTROLLED INFORMATION

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