

AGM AUTO-GATED MX10130-F2000 IIT

GEN 3 IMAGE INTENSIFIER TUBES



AGM MX10130 Series 18mm 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) 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.

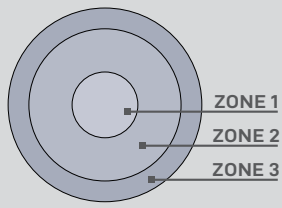
AGM 10130 Series 18mm Gen 3 Image Intensifiers can be used in night vision devices such as PVS-7, along with number of other systems available on consumer market.

AGM 10130-F2000 IITs are designed to give optimal performance while being in compliance with FOM 2000 export requirements.

AGM **3AL1 F2000** – Gen 3 green phosphor tube (P-43) with resolution ranging over 64 lp/mm. 3AL1 is the highest resolution and the cleanest Gen 3 IIT offered by AGM. There are practically no visible spots in Zone 1.

MAXIMUM SPOTS ALLOWED IN EACH ZONE

Spot Size (micrometers)	Zone 1	Zone 2	Zone 3
>300	0	0	0
230 – 300	0	0	0
150 – 230	0	1	1
75 – 150	0	2	2
<75	Minimal	Minimal	Minimal



Zone 1 - 5.6 mm diameter circle in center of optic.
 Zone 2 - 5.6 mm to 14.7 mm annulus concentric with Zone 1.
 Zone 3 - 14.7 mm to edge annulus concentric with Zone 2.

Gen 3 AL1 P-43 (Green) Part#	26218311
Resolution, lp/mm (min)	64
Photocathode Sensitivity	
- @2856° K, $\mu\text{A}/\text{lm}$	2000
- @880 nm mA/W	100
Signal-to-Noise Ratio (min)	
- for Resolution of 64 lp/mm	28.2
- for Resolution of 72 lp/mm	25
FOM (min - max)	1800 - 2000
Halo, mm (maximum)	1.0
EBI, μlx (maximum)	0.25
Luminous Gain, fL/fc (@ 2×10^{-6} fc)	Minimum - 50,000 Maximum - 80,000 – GENERATION 3 under $2 \times 10^{-5}\text{x}$ input light level/illumination
Maximum Output Brightness, fL (@ 1 and 20 fc)	Minimum 2.8 Maximum 4.2
MTF (minimum)	
- @2.5 lp/mm	Info only
- @7.5 lp/mm	Info only
- @15.0 lp/mm	61%
- @25.0 lp/mm	38%
Reliability, Hours (minimum)	10000
Photocathode Diameter, mm (minimum)	17.5
Operation temperature (2 hours maximum)	-55°C to +52°C
Storage Temperature	
- 8 hours	-51°C to +65°C
- long term	-35°C to +35°C
Power Supply	Auto-gated

Specifications subject to change without notice.

NON-EXPORT CONTROLLED INFORMATION

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.

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