MX10130 LEVEL 1 (FOM 1800)

GEN 3 IMAGE INTENSIFIER TUBES

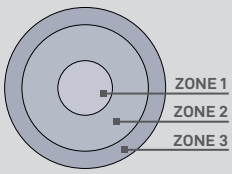
AGM 10130 Series 18 mm Gen 3 Image Intensifiers are designed for use in all variants of the AN/PVS-7 type night vision goggles and night vision clip on systems. Each of these Image Intensifiers features a high-efficiency gallium arsenide photocathode bonded to a glass input window, a Microchannel Plate 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 MX10130 FOM1800 IITs are designed to give optimal performance while being in compliance with FOM 1800 export requirements.

MAXIMUM SPOTS ALLOWED IN EACH ZONE

Spot Size (in)	Zone 1	Zone 2	Zone 3
> .009 or larger	0	0	0
> .006 – .009	0	1	1
.003 – .006	0	2	2
Total Spots	3 spots maximum allowed		



Zone 1
0.295 inch diameter circle in center of optic.

Zone 2
0.295 to 0.580 inch annulus concentric with Zone 1.

Zone 3
0.580 to 0.710 inch annulus concentric with Zone 2.

Notes:
Dark spots less or equal to 0.003 in. are acceptable.
Dark spots are to be measured at 2E-4fc.
Bright spots from film holes less than 0.005 in. are acceptable.

Tube	Type 10130
Generation	Gen 3+
Phosphor Screen	P-43 (Green Phosphor) or P-45 (White Phosphor)
Resolution, lp/mm	64-72
Signal-to-Noise Ratio	21 (minimum)
Luminous Sensitivity	1800 µA/lm @2856K / 80 mA/W @880 nm
FOM	1800
Halo	1.5 mm (maximum)
EBI	2.5×10^{-11} lm/cm² (maximum)
Luminous Gain	50000 fL/fc @2×10^{-6} fc (minimum) - 80000 fL/fc @2×10^{-6} fc (maximum) / 14000 fL/fc @2×10^{-4} fc (minimum) - 21000 fL/fc @2×10^{-4} fc (maximum)
Output Brightness	2.8-4.2 fL @1 and 20 fc
MTF	(Info only) @2.5 lp/mm / (Info only) @7.5 lp/mm / 61% @15.0 lp/mm (minimum) / 38% @25.0 lp/mm (minimum)
Mean Time Before Failure	10,000 hrs (minimum)
Photocathode Diameter	17.5 mm (minimum)
Input Voltage	2 Vdc-3 Vdc
Current	45 mA (maximum)
Power Supply	Auto-gated

* Specifications subject to change without notice.

NON-EXPORT CONTROLLED INFORMATION

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