

# MX10130 LEVEL 1 (FOM 1600)

## GEN 3 IMAGE INTENSIFIER TUBES



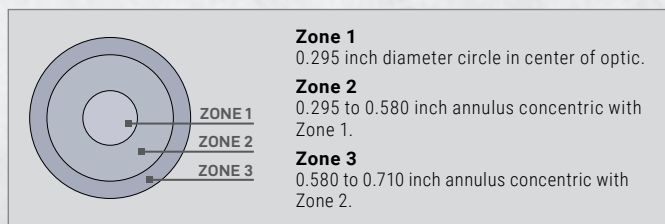
AGM 10130 Series 18 mm Gen 3 Image Intensifiers are designed for use in all variants of the AN/PVS-7 type night vision goggles and night vision clip on systems. Each of these Image Intensifiers features a high-efficiency gallium arsenide photocathode bonded to a glass input window, a Microchannel Plate 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 MX10130 FOM1600 IITs are designed to give optimal performance while being in compliance with FOM 1600 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
<b>Total Spots</b>	<b>3 spots maximum allowed</b>		



#### 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.

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.

<b>Tube</b>	Type 10130
<b>Generation</b>	Gen 3+
<b>Phosphor Screen</b>	P-43 (Green Phosphor) or P-45 (White Phosphor)
<b>Resolution, lp/mm</b>	64-72
<b>Signal-to-Noise Ratio</b>	21 (minimum)
<b>Luminous Sensitivity</b>	1800 $\mu\text{A/lm}$ @2856K / 80 mA/W @880 nm
<b>FOM</b>	1600
<b>Halo</b>	1.5 mm (maximum)
<b>EBI</b>	$2.5 \times 10^{-11}$ lm/cm <sup>2</sup> (maximum)
<b>Luminous Gain</b>	50000 fL/fc @ $2 \times 10^{-6}$ fc (minimum) - 80000 fL/fc @ $2 \times 10^{-6}$ fc (maximum) / 14000 fL/fc @ $2 \times 10^{-4}$ fc (minimum) - 21000 fL/fc @ $2 \times 10^{-4}$ fc (maximum)
<b>Output Brightness</b>	2.8-4.2 fL @1 and 20 fc
<b>MTF</b>	(Info only) @2.5 lp/mm / (Info only) @7.5 lp/mm / 61% @15.0 lp/mm (minimum) / 38% @25.0 lp/mm (minimum)
<b>Mean Time Before Failure</b>	10,000 hrs (minimum)
<b>Photocathode Diameter</b>	17.5 mm (minimum)
<b>Input Voltage</b>	2 Vdc-3 Vdc
<b>Current</b>	45 mA (maximum)
<b>Power Supply</b>	Auto-gated

\* Specifications subject to change without notice.

NON-EXPORT CONTROLLED INFORMATION

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