

MX11769 LEVEL 1 (FOM 2200)

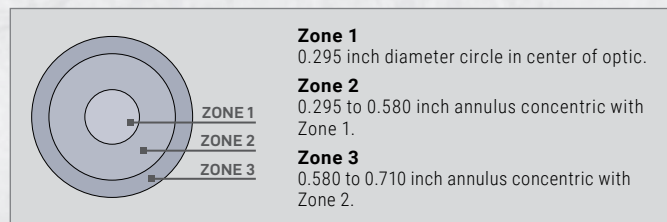
GEN 3 ADVANCED PERFORMANCE IMAGE INTENSIFIER TUBES

AGM 11769 Gen 3 Image Intensifier Tubes (IIT) are designed in compact 18 mm format with manual gain control. AGM IITs feature a high-sensitivity GaAs photocathode bonded to a glass input window, a microchannel plate, in P-43 (green) or P-45 (white) phosphor configuration on an 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.

The 11769 Series IIT are fully compatible and interchangeable for use in all night vision systems that use an inverting tube with Manual Gain Control (MG) such as PVS14, NVG40/50 and various other commercially available models.

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		



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 11769
Generation	Gen 3+
Phosphor Screen	P-43 (Green Phosphor) or P-45 (White Phosphor)
Resolution	64-72 lp/mm
Signal-to-Noise Ratio	21 (minimum)
Luminous Sensitivity	1800 $\mu\text{A/lm}$ @2856K / 80 mA/W @880 nm
FOM	2200
Halo	1.5 mm (maximum)
EBI	2.5×10^{-11} lm/cm ² (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
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

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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