

# MX11769 LEVEL 1 (FOM 2200)

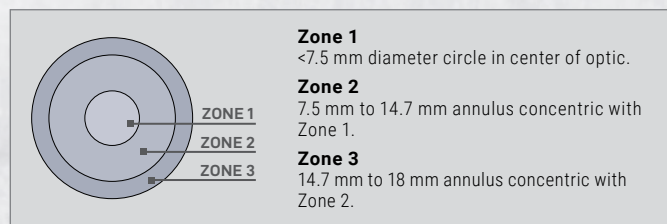
## GEN 3 ADVANCED PERFORMANCE IMAGE INTENSIFIER TUBES

AGM 11769 Gen 3 Image Intensifier Tubes (IIT) are designed in compact 18mm 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 (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
<b>Total Spots</b>	<b>3 spots maximum allowed</b>		



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 (minimum)	2200
Halo, mm (maximum)	1.5
EBI, $\text{X}10^{-11} \text{ lm}/\text{cm}^2$ (maximum)	2.5
Luminous Gain, fL/fc @ $2 \times 10^{-6}$ fc (minimum-maximum) @ $2 \times 10^{-4}$ 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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