



MX11769 NIGHT VISION IMAGE INTENSIFIER



Master Commercial & MIL SPEC Tube Distributor
Night Vision Devices

The MX11769 is a Gen 3 18mm image intensifier manufactured by Elbit Systems of America (previously Harris Night Vision). The MX11769 is used in the AN/PVS-14 night vision monocular and several weapon sights.

The MX11769 series image intensifier consists of a high efficiency GaAs photocathode bonded to a glass input window, a microchannel plate (MCP) current amplifier, and a P-43 phosphor screen deposited on non inverting fiber optic output window. The Gen 3 photocathode is very sensitive

to low radiation levels of visible and, especially, near infrared light. Tube lifespan is an average of 12,000 hours continuous use.

The MX11769 also incorporates a variable gain power supply which gives the user the ability to adjust the tube gain or brightness in the field. This can be extremely helpful under high or low light conditions.

The MX11769 is available in several grades (see chart below) based upon performance and blemishes (imperfections in the image). All MX11769 tubes come with a tube data sheet listing the following specifications: Signal to Noise Ratio (S/N), Resolution, EBI (electronic background input), HALO, Photocathode Response (PR). These specifications are the most critical to the actual tube performance, as no two tubes are exactly alike.

We also carry a large assortment of MIL SPEC OMNI 5 and 6 image intensifiers including Pinnacle image tubes for US Govt. sales only. Figure of merit (FOM 1250 & 1600) are also available for Export*. Please call for more information.

NVD GEN III MX11769 IMAGE TUBE SPECIFICATIONS						
MODEL NUMBER:	ULTRA	VG	YG	HP+	P+	P
POWER SUPPLY:	PINNACLE	PINNACLE	PINNACLE	PINNACLE	PINNACLE	PINNACLE
EBI:	2.5 MAX	2.5 MAX	2.5 MAX	2.5 MAX	2.5 MAX	2.5 MAX
PHOTOCATHODE RESPONSE:	2200 MIN.	2000 MIN.	1800 MIN.	2200 MIN.	1750 MIN.	1350 MIN.
SIGNAL TO NOISE RATIO:	25.0 MIN.	25.0 MIN.	25.0 MIN.	25.0 MIN.	20.0 MIN.	16.2 MIN.
RESOLUTION:	64 LP/ MM MIN.	64 LP/ MM MIN.	64 LP/ MM MIN.	64 LP/ MM MIN.	64 LP/ MM MIN.	57 LP/ MM MIN.