



MX10160 NIGHT VISION IMAGE INTENSIFIER



Master Commercial & MIL SPEC Tube Distributor
Night Vision Devices

The MX10160 is a Gen 3 18mm image intensifier manufactured by Elbit Systems of America (previously Harris Night Vision). The MX10160 is the most widely used image intensifier and is found in the AN/AVS-6 & 9 Aviators Night Vision Imaging Systems (ANVIS), most Gen 3 weapon sights, and many different goggles and monocular systems.

The MX10160 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 an 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 MX10160 is available in several grades (see chart below) based upon performance and blemishes (imperfections in the image). All MX10160 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 MX10160 IMAGE TUBE SPECIFICATIONS

MODEL NUMBER:	ULTRA	VG	YG	HP+	P+	P
TUBE TYPE:	PINNACLE	PINNACLE	PINNACLE	PINNACLE	PINNACLE	PINNACLE
POWER SUPPLY:	GATED	GATED	GATED	GATED	GATED	GATED
EBI:	2.5 MAX	2.5 MAX	2.5 MAX	2.5 MAX	2.5 MAX	2.5 MAX
PHOTOCATHODE RESPONSE:	2400 MIN.	2200 MIN.	1800 MIN.	2200 MIN.	1750 MIN.	1350 MIN.
SIGNAL TO NOISE RATIO:	30.0 MIN.	28.0 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.