

F9800, F9810 & F9815 IMAGE INTENSIFIERS



The F9800, or MX10160 type, is a Gen 3 18mm image intensifier manufactured by Exelis, now a part of Harris Corporation. The F9800 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 F9810, or MX10130 type, is a Gen 3 18mm image intensifier manufactured by Exelis, now a part of Harris Corporation. The F9810 is the most widely used image intensifier and is found in the AN/PVS-7A, B, C & D series of night vision goggles along with a few weapon sights.



The F9815, or MX11769 type, is a Gen 3 18mm image intensifier manufactured by Exelis, now a part of Harris Corporation. The F9815 is used in the AN/PVS-14 night vision monocular and several weapon sights.

The F9815 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.



Master Commercial & MIL SPEC Tube Distributor
Night Vision Depot

The image intensifiers consist 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.

Each image intensifier is available in several grades based upon performance and blemishes (imperfections in the image). All 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.