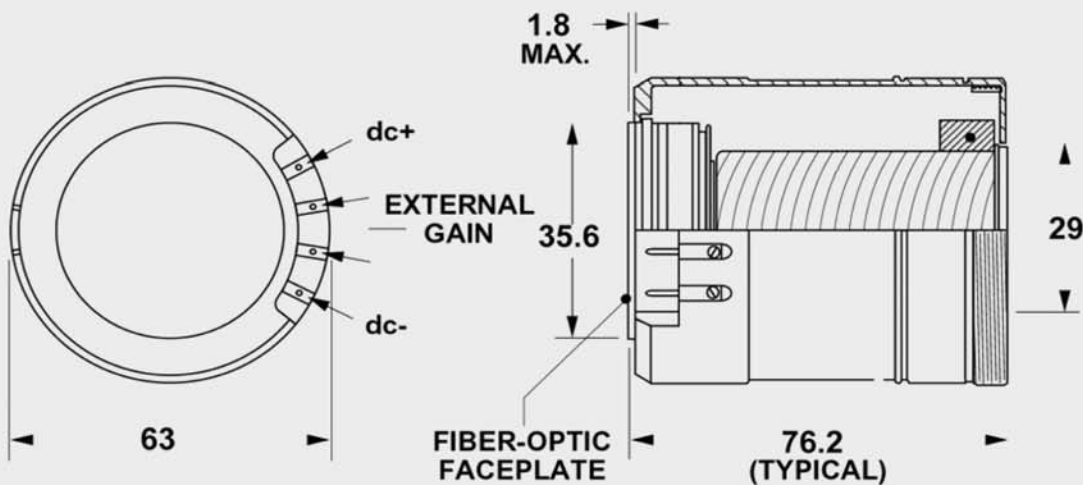


IMAGE INTENSIFIER TUBES

IMAGE INTENSIFIER TUBE NC107663IF

The NC107663IF 25mm Gen 2 enhanced Image Intensifier Tube provides optimal Night Vision performance. The NC107663IF tube boosts systems with older 25mm tubes to the new performance levels. This includes AN/PVS-4 weapon sight, M-32/M36 passive night vision elbow, AN/TVS-5 weapon sight, and other systems. Easy to change - this tube can be installed by regular maintenance personnel using the standard procedures of tubes replacement. Drop in custom fit, it replaces the original MX 9644 type tube, and is fully compatible with the optics in the equipment. No modifications or replacement of lenses are necessary. This substitution will substantially increase the operational life of your unit, as well as the performance level to that of the contemporary systems now being procured for the infantry use. The tube comprises a special fiber optic faceplate, microchannel plate (MCP) current amplifier, and phosphor screen. This tube functions under extremely low light conditions. The improved electronics includes an advanced automatic brightness control, which covers over five orders of magnitude of input illumination providing constant output image brightness. It also allows manual adjustment to a desired brightness level. The sophisticated power supply has a built-in photocathode protection against high light level exposure.

Dimensions (mm)



25 MM large inverting tube, MX9644 type.
Compatible with AN/PVS 4,
AN/TVS 5 and many other devices.

Main parameters:

Photocathode operating diameter, mm	24.5 min
Resolution, min, lp/mm	30-36
Photocathode sensitivity, $\mu\text{A}/\text{lm}$	300
Signal-to-noise ratio	3.5
EBl, lm/cm^2	2.5×10^{-11} Max.
Luminous Gain, fL/fc @ 2×10^{-6} fc	50 000-90 000
Tube life, hours	10,000
Input Current, mA	35

Benefits

- * Improves Range Performance
- * Higher Photo Response, Resolution and S/N Ratio
- * Long Operational Life
- * Instantaneous Flash Response recovery
- * Auto Brightness Control
- * Bright Source Protection