MX-11769
F9415

IMAGE INTENSIFIERS, GEN 3, 18 MM

KEY BENEFITS

Gen 3 18mm gated Pinnacle® tubes providing the highest performance and reliability available under all light levels

High resolution, high gain, and very high photoresponse in visible and near infrared

Variable gain control for enhanced performance in altering light conditions

Stealth dB auto-gated capability power supply for outstanding response in high-light or light-polluted urban environments and silent operation at all relevant light levels

Reliability @ 10,000 hours minimum

Available in P45 white phosphor (F9415)

Manufactured according to US DOD MIL-PRF-A3256363E

Our MX-11769 (F9415) image intensifiers are engineered for use in the AN/PVS-14 monocular night vision system and the AN/PVS-31D binocular night vision system. The MX-11769 image intensifiers are manufactured according to US DoD MIL-PRF-A3256363E. All MX-11769 image intensifiers are qualified according to that specification and tested to meet customer requirements.

Each intensifier features a high-efficiency GaAs photocathode bonded to a glass input window, a microchannel plate electron multiplier and a phosphor screen on an inverting fiber-optic output window. These technologies deliver a very high signal-to-noise ratio for extended detection ranges and also exceptional resolution in low-light conditions.

noctistech.com

DARKNESS CONQUERED

email: Sales@noctistech.com

+1-770-753-4403
110 Nobel Court
Alpharetta, GA 30005
United States

REV. November 2025

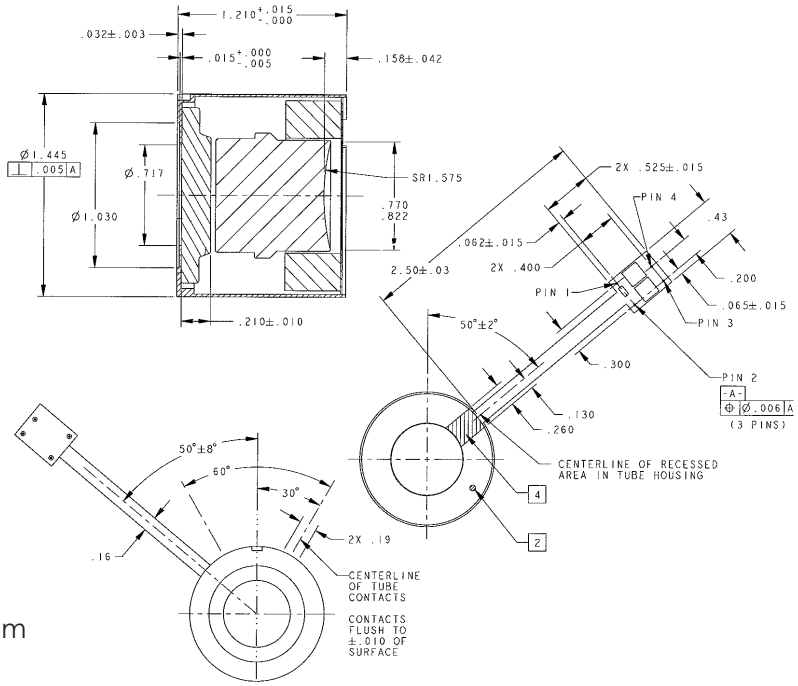
+1-770-753-4403
110 Nobel Court
Alpharetta, GA 30005
United States

F9415/F9815 M16H/M18H/M20H
IMAGE INTENSIFIERS, GEN 3, 18 MM

SPECIFICATIONS

	F9415/F9815 M16H	F9415/F9815 M20H	F9415/M20MH
Resolution, lp/mm (minimum)	64	64	64
High-light Resolution @20 fc (min) lp/mm	36	40	40
Photocathode Sensitivity (minimum)			
@2856° K, µA/lm	1800	1800	1800
@880 nm, mA/W	80	80	80
Signal-to-Noise Ratio			
@72 lp/mm	-	25.0 - 27.7	27.8 min
@64 lp/mm	21.9 - 25.0	28.2 - 31.2	31.3 min
FOM	1400 - 1600	1800 - 2000	2000 min
EBI, X10-11 lm/cm2 (maximum)	2.5	2.5	2.5
Luminous Gain, fL/fc			
@2X10-6 fc	50000 - 80000	50000 - 80000	50000 - 80000
@2X10-4 fc (P43)	14000 - 21000	14000 - 21000	14000 - 21000
@2X10-4 fc (P45)	10000 - 20000	10000 - 20000	10000 - 20000
Output Brightness, fL @1 and 20 fc (P43)	2.8 - 4.2	2.8 - 4.2	2.8 - 4.2
Output Brightness, fL @1 and 20 fc (P45)	2.0 - 4.0	2.0 - 4.0	2.0 - 4.0
MTF (minimum)			
@2.5 lp/mm	Info only	Info only	Info only
@7.5 lp/mm	Info only	Info only	Info only
@15.0 lp/mm	61%	61%	61%
@25.0 lp/mm	38%	38%	38%
Power Supply	Auto-gated Stealth dB	Auto-gated Stealth dB	Auto-gated Stealth dB
Maximum Spots Allowed in Each Zone	Zone	Zone	Zone
Spot Size (in)	1 2 3	1 2 3	1 2 3
> .009 – .012	0 0 0	0 0 0	0 0 0
> .006 – .009	0 1 1	0 1 1	0 1 1
.003 – .006*	0 2 2	0 2 2	0 2 2

* Elbit Systems of America – Night Vision measures and counts dark spots that are equal to or greater than .003" in all zones



email: Sales@noctistech.com

REV. December 2025

noctistech.com