



TV/M4D

Tactical Night Vision



TECHNICAL SPECIFICATION

Electrical Properties

Video Out : CCIR, 1 Vp-p

Video In : CCIR, 1 Vp-p

Resolution : 768 x 576

Digital Zoom: -

Battery : 1 X 3.6V AA Lithium

Battery Life : ≥ 4 hours

Optical Properties

Magnification : 1X

HFOV : $\geq 32^\circ$

VFOV : $\geq 24^\circ$

Resolution : 768 x 576

Focus Range : $\frac{1}{4}$ m to infinity

Mechanical Properties

Dimensions (mm) : 45 x 75 x 150

Weight (gr) : ≤ 325

Body : Polyoxymethylene

Shock and Vibration : MIL-STD-810H

Immersion : 1m (30 minutes)

II Tube Properties

| PERFORMANCE | UNITS | MIN | MAX |
|---|-----------------------------------|--------|--------|
| Luminous Sensitivity at 2856°K | $\mu\text{A}/\text{lm}$ | 1800 | |
| Radiant Sensitivity at 830 nm | mA/W | 185 | |
| Signal-to-Noise Ratio | | 23 | |
| EBI | $10^{-11} \text{ lm}/\text{cm}^2$ | | 2.5 |
| Luminous Gain at $2X 10^{-6} \text{ fcd}$ | fl/fc | 40,000 | 70,000 |
| Supply Current | mA | | 32 |
| Output Uniformity at 2856°K | | | 3:1 |
| Limiting Resolution | lp/mm | 64 | |
| MTF at 2.5 lp/mm | % | 92 | |
| MTF at 7.5 lp/mm | % | 75 | |
| MTF at 15.0 lp/mm | % | 55 | |
| Photocathode diameter | mm | 17.5 | |
| MTTF | Hours | 10,000 | |

