

3M™ Scott™ X-Series Thermal Imagers



Description

The X-Series thermal imagers provide firefighters with the combination of situational awareness, lightweight design and robust features. The high resolution image quality enables firefighters to interpret a fire scene and make more informed tactical decisions.

Specification

Physical characteristics

Dimensions (L x W x H):	130mm x 115mm x 225mm
Weight (excl. battery):	980g (relates to 3 button with DVR). Slight variations on this weight are dependent on model configuration
Shell material:	High-heat Radel R-5800 Polyphenylsulfone (PPSU)
Shell colour:	Black
Bumper material:	Silicone rubber FR65M0BK/1
IR protection window:	Germanium
Display technology:	LCD
Display size (diagonal):	90mm
Display viewing angle:	50° (left/right), 15° (up), 35° (down)
Luminance:	250cd/m ²
Water resistance:	IP67, submerged at 1m for 30 minutes
Shock resistance:	Impact test at 2m (any orientation)

Performance characteristics

Approvals:	NFPA 1801 Compliant (X380N only)
Detector format:	384 × 288 pixels (all variants)
Detector material and type:	Amorphous silicon – uncooled microbolometer
Displayed resolution:	110,592 pixels
Scene update rate:	5,529,600 elements per second
Spectral response:	8 μm to 14 μm
Sensitivity (nominal):	<50 mK
Dynamic range:	-40°C to 1000°C
Focus range:	1.0 m to ∞
Field of view:	54° (diagonal)
Modes of operation:	Three
Operating duration:	20 mins @ 120°C, 5 mins @ 260°C
Operating temperature:	-35°C to ~450°C (limited exposure)
DTM range:	-40°C to 1000°C
DTM accuracy:	+/- 5°C @ <100°C, +/- 10% @ >100°C

Specification

Power characteristics

Battery technology:	Li-Ion
Battery weight:	0.2kg
Operating time:	>3.5 hours (nominal)
Recharge time:	<2.5 hours (nominal)
Recharge cycles:	1000+

Service packages

Standard warranty:	2 years
Extended warranty options	1, 2 or 3 years
Warranty turnaround:	48 hours

Operational characteristics

Start-up time:	<10 seconds
Image optimisation:	Automatic
Colourisation:	Transparent colourisation
Laser pointer:	Class IIIa
Video recording:	On-demand DVR is available on the X380 5 button camera only. A constant record DVR option is available in the X380 3 button camera
Dynamic temperature measurement:	Hot and cold spot tracker
Zoom:	2x and 4x zoom
Image freeze:	Installed as standard on the X380 5 button camera only. Image freeze is not available on the X380N or X380 3 button camera
Image capture (snapshot):	Installed as standard on the X380 5 button camera only. Image capture (snapshot) runs when on-demand DVR is off

Core functions

Intelligent focus:	Standard
Tactical colour:	Standard
1000+ mode:	Standard

Core enhancements

2x and 4x zoom:	Standard
Hot spot tracker:	Standard
Cold spot tracker:	Standard

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