

# 3M™ Scott™ V320 Thermal Imager



## Description

The 3M™ Scott™ V320 Thermal Imager features a high resolution sensor, 90mm (3.5”) display screen and extended battery life of up to 8 hours. For use by firefighters operating in extreme conditions where temperatures are capable of rising fast and visibility is reduced in seconds.

## Specifications

Electrical	
Display	90mm (3.5”) LCD, 320×240 pixel
LCD brightness	Fixed (constant)
IR resolution	320×240
Pixel size	12 micron
Spectral response	7.5-14 micron
Temperature units	Fahrenheit or celsius
Image frequency	>25 Hz (9 Hz option also available)
F-number	F1.0
Field of vision	55° horizontal/42° vertical
NETD	<70 mK typical and <100 mK max @ 25°C operating temperature and 37-100°C
Dynamic range	-20°C to +650°C
Object temperature accuracy	+/- 5°C/5% typical, +/- 10°C/10% max @ 25°C operating temperature, up to 650°C
Lux level	>250 cd/m <sup>2</sup>
Off-axis viewing area	>50°
Battery technology	Rechargeable lithium-ion
Battery life	Up to 8 hours
Dimensions	132mm x 122mm x 240mm (5.2” x 4.8” x 9.4”)
Weight	<1 kilogram (<2.2 pounds)

## Durability

Operating temperature range continuous	-20°C to +55°C (-4° to 131°F)
IP rating	IP67 (IEC 60529): complete camera with the battery inserted
Drop	IEC 60068-2-31 & 2 m (6.6') concrete, UN 38.3, Test T.6: Impact / Crush
Shock	IEC 60068-2-27, UN 38.3, Test T.4: Shock
Environmental temperature and humidity	IEC 60068-2-30, UN 38.3, Test T.2: Thermal test
Vibration	IEC 60068-2-6
Environmental corrosion salt spray	IEC60068-2-52

## Accessories



Desktop charger



Batteries



Retractable lanyard

## 3M Scott Fire & Safety

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