



**SCOTT™**  
Fire & Safety

# 3M™ Thermal Imaging Cameras V-Series



## V-Series Thermal imager

The V-Series Thermal imager equipped with extended battery life, provides firefighters with mission critical information that enables firefighters to make better decisions in extreme conditions.

### Product Highlights

- **Extended Battery Life** – Up to Eight-hour runtime with a removable rechargeable battery.
- **Single Button** – Single button ON/OFF provides easy deployment. No menus required.
- **3.5" High-Contrast Display** – Ensures the image on the display can be seen in multiple light conditions.
- **Fast Startup Time** – Ready for use without the use of a standby mode!
- **Lightweight, Durable Design** – Designed to withstand the extreme conditions.
- **Ergonomics** – Ergonomically designed and balanced for comfort with a gloved hand.

### 3M™ V320

V320 features a 320x240 sensor (IR resolution) offering a wide field of view (FOV 55° horizontal / 42° vertical) designed to perform in a firefighting environment.



### Technical Specification

Electrical	
	<b>V320</b>
FOV	55° horizontal / 42° vertical
IR Resolution	320 x 240
Image Frequency	>25 Hz (9 Hz option also available)
Pixel Size	12 micron
Spectral Response	7.5-14 micron
F-number	F1.0
NETD	<70 mK typical and <100mk 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
Display	3.5" LCD, 320x240 pixel
LCD Brightness	Fixed (constant)
Lux Level	>250 cd/m <sup>2</sup>
Off-Axis Viewing Area	>50°
Battery Technology	Rechargeable Lithium-Ion
Battery Life	Up to 8 hours
Durability	
Operating Temperature Range Continuous	-20°C to +55°C
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 Temp & 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

## Tactical Thermal Imaging Camera



## Feature set per Camera

V320 Thermal Camera	
Resolution	320 × 240
Focus Range	1m - ∞
Full Size 3.5" LCD	•
Transparent Colourisation	•
Direct Spot Temperature Readout	•
Thermal Sensitivity	<70mK
Refresh Rate	25Hz (9 Hz available)
Dynamic Range	>650°C
Standard Warranty	3 Years
Dimensions	130mm x 115mm x 225mm
Weight	<1kg

## Ordering Information

3M Order Code	Model #	Description
XP101716320	8007135	V320 Complete TIC Kit with 25Hz Camera, two batteries, desktop charger & retractable lanyard. 3 year warranty on the camera and batteries.
XP101716304	8007133	V320 Complete TIC Kit with 9Hz Camera, two batteries, desktop charger & retractable lanyard. 3 year warranty on the camera and batteries.
XP101715918	8007137	V-SERIES Battery Charger
XP101715900	8007138	V-SERIES Charger Power Supply
XP101715892	8007139	V-SERIES Standard Battery
XP101715926	8007136	V-SERIES Retractable Lanyard
XP101716353	8007160	V320 User Manual
AT010711334	TIC Carry Case	V320/V206 LCT



**SCOTT™**  
Fire & Safety

**3M Australia Pty Ltd**  
Personal Safety Division  
Bldg A, 1 Rivett Road  
North Ryde NSW 2113  
3M Scott Fire & Safety Customer Service:  
131 772 or +61 2 9498 9222  
Email: 3msupport.safety.au@mmm.com  
Web: www.3M.com/au/ppesafety

**3M New Zealand Ltd**  
Personal Safety Division  
94 Apollo Drive, Rosedale  
Auckland 0632  
TechAssist Helpline: 0800 364 357  
Customer Service: 0800 252 627  
Email: techassist@mmm.com  
Web: www.3M.com/nz/ppesafety

3M is a trademark of 3M Company. Please recycle. Printed in Australia. © 3M 2021. All rights reserved. AV011474333