

3M Occupational Health and Environmental Safety Division
3M™ Thermal Imaging Camera FF131

Critical Visibility



The 3M™ Thermal Imaging Camera FF131 is built specifically for the demanding fire fighting environment, to provide reliable, high quality imaging. Combining advanced detector technology with innovative, task-oriented mechanical design, it is completely self-contained, with no external cables or components to catch or impair movement.

- Large Display
- VOX Microbolometer
- Four color palettes (Gray Scale, Autumn, Full Color, Infotherm)
- Thru-the-lens digital temperature measurement
- Auto Focusing Lens
- Easy and intuitive operation
- Viewable when crawling





3M™ Thermal Imaging Camera FF131

Whether standing, walking, crawling or kneeling, firefighters can comfortably rely on the FF131 to see the scene in front of them. The FF131 features a customized MicroIR microbolometer detector that has high resolution, fast update rate, and wide dynamic range. The FF131 provides thru-the-lens digital temperature measurement, exclusive color palettes including InfoTherm, an exciting feature that enhances situational awareness by applying a color palette to temperatures around the combustion point of paper and wood products.

The ergonomic mechanical design of the FF131 complements the firefighter's ensemble. A variety of holding positions give firefighters maximum flexibility, including the ability to look under, over, and around obstacles. With the large display, the FF131 also allows for shared viewing by an entire attack team. The controls are large and easy to reach with one hand, and battery change is fast and easy, even in dark or smoky atmospheres.

The FF131 is designed to be carried low, near the waist, relieving strain on the shoulder and distributing the weight throughout the arm.

1

VOx Microbolometer

State-of-the-art detector for excellent resolution, rapid update rate, and wide dynamic range.

2

Radel Thermoplastic Material

Rugged design for high-temperature, high-impact environments.

3

Diamond Plate Textured Handle

Provides secure grip even when wearing gloves.

4

Sacrificial Window

Germanium window protects optics.



5

Angled Bezel Assembly

Comfortable holding position allows non-obtrusive viewing when standing, walking, or crawling.



GRAY SCALE



AUTUMN



FULL COLOR



INFOTHERM



RADIOMETRY



ATTICS & VENTS



SHAFTS & HOLES



STANDING & WALKING



CORNERS & OBSTACLES



KNEELING & CRAWLING



6

Large LCD

Large 5 inch (12.7 cm) display for easy, simultaneous viewing by entire team.

7

Display Cover

Polycarbonate cover protects LCD from impact and heat.

8

Large Buttons

Intuitive controls for easy operation with one hand or when wearing gloves.

9

Unique Arched Handle Design

Architectural design supports 300 pounds (140 Kg) load when crawling or moving.

10

Quick Latch Battery Hatch

For fast deployment and quick battery changes when wearing gloves and in adverse conditions.



OVERHAUL



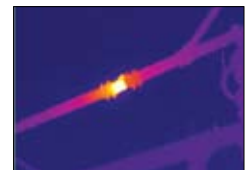
ATTACK



SIZE UP



SEARCH & RESCUE



ELECTRICAL SURVEY

3M™ Thermal Imaging Camera FF131

FEATURE	BENEFIT
UNCOOLED MICROBOLOMETER DETECTOR	
True Staring Focal Plane Array (FPA)	Minimize blurring, halo-effects or other motion artifacts
600°C Dynamic Range	Wider range of viewable temperatures, no manual adjustment required
160 x 120 pixels <0.05°C sensitivity	High quality thermal imaging
ADVANCED OPTICS AND DISPLAY	
55° field of view	Wide-angle viewing
Large 5 inch (12.7 cm) LCD	Simultaneously viewed by multiple firefighters
Germanium Window	Durable protection for optics
Digital signal processing	View objects of extreme temperature differences
INTERNAL COOLING SYSTEM	
Thermal Phase™ cooling technology	Ensures optimal performance in extreme heat
Redundant thermal protection	Applied to all electronics, display and optic
MECHANICAL	
Meets IP67 (Main display/ core housing)	Standard for water immersion
Quick-charge battery	Fast deployment
Usable when standing, walking or crawling	Supports standard operating procedure
No continuous moving parts	Mechanically reliable and robust

Base Options

MODEL NUMBER	
FF131-1IR	3M™ Thermal Imaging Camera FF131 with four channel transmitter, four color palettes, NTSC video, 110V single bay battery charger and power adapter, two NiMH batteries, shoulder strap, DC power cord
FF131-2IR	3M™ Thermal Imaging Camera FF131 with four color palettes, NTSC video, 110V single bay battery charger and power adapter, two NiMH batteries, shoulder strap, DC power cord

⚠ WARNING

Each person using this equipment must read and understand the information in the *User Instructions* before use. Use of this equipment by untrained or unqualified persons, or use that is not in accordance with the *User Instructions*, may adversely affect product performance and **result in sickness or death**. For proper use, see supervisor or *User Instructions*, or call 3M in U.S.A., 1-800-243-4630. In Canada, call Technical Service at 1-800-267-4414.

Accessories

MODEL NUMBER	
FF3207837	3M™ Vehicle Camera Holder
FF3207838	3M™ Vehicle Charger Holder
FF3204460	3M™ Video Cable Adapter
FF3205380	3M™ Shoulder Strap Kit- Includes shoulder strap and front bracket
FF3205094	3M™ Shoulder Strap
FF3203312	3M™ NiMH Battery, 7.2V, 4AH
FF3203545	3M™ Battery Charger, Single Bay
FF3208455	3M™ Receiver Kit (110V), four channel receiver and patch antenna
FF3208603	3M™ Receiver Kit (110V), four channel receiver and magnetic antenna
FF3208926	3M™ Battery Charger Adapter (110V)- for use with single bay charger



Occupational Health & Environmental Safety Division
3M Center – Building 235-0W-00
St. Paul, MN 55144-1000
www.3M.com/detection

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