**FC-Series**

Thermal Traffic Detection Camera

**Thermal Detects Better**

Thermal cameras outperform other detection technologies by detecting the heat signatures given off by everything in their field of view, 24/7. Because they see heat, not light, they don’t get confused by sun glare, darkness, headlights, shadows, wet streets, snow, and fog like video cameras do. Nor do they get damaged by direct sun light.

Detection systems using thermal cameras have dramatically fewer false and missed calls, enable better signal timing, and more efficient traffic flow with increased safety than any other technology. Plus thermal cameras also detect the heat from cyclists, pedestrians, and animals faster and more reliably.

**NEW FC-Series**

A drop-in replacement for legacy video cameras, FC-Series thermal cameras run off 110 VAC power, output industry-standard video signals, and work with all third-party video detection systems making them the most accurate, cost-effective solution on the market today.

The FC-Series of thermal cameras is a direct replacement for your legacy video cameras and works with your existing processor, so you can get more accurate detection, improved data collection, and safer operations without having to change the rest of your system or spend money training your operators on a new system.
# FC-Series Thermal Camera Specs

<table>
<thead>
<tr>
<th><strong>Array Format (NTSC)</strong></th>
<th>320 x 240</th>
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</thead>
<tbody>
<tr>
<td><strong>Detector Type</strong></td>
<td>Long-Life, Uncooled VOx Microbolometer, w/10-Year Warranty</td>
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<tr>
<td><strong>Effective Resolution</strong></td>
<td>78,800</td>
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<tr>
<td><strong>Pixel Pitch</strong></td>
<td>25 µm</td>
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<tr>
<td><strong>Focal Length</strong></td>
<td>9 mm, 13 mm, or 19 mm</td>
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</table>
| **Field of View**      | 48° x 37° (FC-348t; 9 mm)  
34° x 26° (FC-334t; 13 mm)  
24° x 18° (FC-324t; 19 mm) |
| **Spectral Range**     | 7.5 to 13.5 µm |
| **Focus Range**        | Athermalized; focus-free |

## Outputs

- **Dual Connectivity**: BNC and Connector-Free Video Cable Terminal Strip
- **Composite Video**: NTSC or PAL
- **External Analytics Compatible?**: Yes

## General

- **Weight**: 4.2 lb. (w/sun shield)
- **Dimensions (L,W,H)**: 10.8” x 5.4” x 4.4” (w/sun shield)
- **Input Voltage**: 90-240 VAC single phase
- **50/60 Hz**
- **Power Consumption**: 1.7 W nominal at 110 VAC  
18 W peak w/heaters
- **Mounting Provisions**: Two 1/4-20 threaded holes, 1” spacing along centerline front to back

## Environmental

- **IP rating**: IP66
- **Operating temperature range**: -50°C to 75°C (continuous operation)  
-40°C to 75°C (cold start)
- **Storage Temperature range**: -55°C to 85°C
- **Humidity**: 0-95% relative
- **Shock**: MIL-STD-810F “Transportation”
- **Vibration**: 10g shock pulse with a 11ms half-sine profile
- **NEMA TS 2**: Environmental testing for FC-Series(t) was conducted IAW w/Section 2.1 of NEMA TS 2-2003 and either meets or exceeds those requirements for the following categories: Operating Voltage, Operating Frequency, Ambient Temperature, Humidity, Vibration, and Shock.

## Approvals

- FCC Part15, Subpart B, Class B  
EN 55022 Class B  
EN 50130-4  
EN 60950

## Warranty

- **10 Year Detector, 2 Year Parts and Labor**

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