High Resolution Infrared Image for Professional Thermographer

InfReC R550series

High speed sampling at maximum speed 120Hz (R550Pro)
- 120Hz: 640x120 with windowing
- 60Hz: 640x240 with windowing
- 30Hz: 640x480 at full window

Automatic movie recording function by PC
- Software makes movie recording start automatically by external trigger input.

1.2M pixels Infrared Thermal Imaging Camera
- Super Resolution Mode (SR MODE): 1280x960 pixel
  (Standard MODE): 640x480 pixel
- Spatial Resolution: equivalent to 0.58 mrad

Variety of Lens Lineup Makes Play an Active Role in Various Measuring Scene
- 21mm Closeup Lens
- 52mm Closeup Lens
- 2x Telephoto Lens
- 2x Wide Angle Lens
- 3x Wide Angle Lens

Selectable 2 models for your application
- R550Pro: Measuring range: -40 to 2000℃
  Suitable for use in R&D, for making high temperature measurements, and for measuring high temperature
- R550: Measuring range: -40 to 650℃
  Excellent choice for inspection of electrical facilities and remotely located pipes.

For monitoring of welding process.

By high speed sampling time of 120Hz (R550Pro), occurrence of small spatter and thermal affection can be checked.

Realizes the highest speed sampling(*) in the portable VGA class equipment

*Research by Avio in August 2018

Image of laser welding

Example of laser welder monitoring (Object: Stainless steel, Laser output: 250W, Scan 50mm)
Automatic Movie Recording Feature Built In

- Recording movie connected PC automatically by external trigger input to R550Pro
- Data recording linked with test equipment and field facility is available without configuring I/O system

Maximum 1.2 million pixel recording (SR mode)

1.2 million pixels  
(Taken by SR mode with digital zoom x 2.0)  
0.3 million pixels  
(Take by standard mode with digital zoom x 2.0)

Clear imaging and measuring from wide to micro with use of option lens

With use of 21um close up lens (Spatial resolution 21um)

Measuring Distance and F.O.V

Field of View and Spatial Resolution are the same magnification with measuring distance.

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>R550D</th>
<th>R550D-DC</th>
<th>R555</th>
<th>R550D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infrared Detector</td>
<td>Uncooled Focal Plane Array (Microbolometer)</td>
<td>Uncooled Focal Plane Array (Microbolometer)</td>
<td>Uncooled Focal Plane Array (Microbolometer)</td>
<td>Uncooled Focal Plane Array (Microbolometer)</td>
</tr>
<tr>
<td>Spectral Range</td>
<td>8 to 14um</td>
<td>8 to 14um</td>
<td>8 to 14um</td>
<td>8 to 14um</td>
</tr>
<tr>
<td>Spatial Resolution</td>
<td>4800x4800 pixels</td>
<td>4800x4800 pixels</td>
<td>4800x4800 pixels</td>
<td>4800x4800 pixels</td>
</tr>
<tr>
<td>Accuracy</td>
<td>± 1°C</td>
<td>± 1°C</td>
<td>± 1°C</td>
<td>± 1°C</td>
</tr>
<tr>
<td>Power Supply</td>
<td>10.8V DC ± 10%</td>
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<td>10.8V DC ± 10%</td>
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<tr>
<td>Power Consumption</td>
<td>105mA</td>
<td>105mA</td>
<td>105mA</td>
<td>105mA</td>
</tr>
<tr>
<td>Infrared Pixels</td>
<td>640x480</td>
<td>480x360</td>
<td>640x480</td>
<td>480x360</td>
</tr>
<tr>
<td>Recording Pixels</td>
<td>Standard mode: 640x480, 480x360, Super Resolution (SR mode): 640x480, 480x360</td>
<td>Standard mode: 640x480, 480x360, Super Resolution (SR mode): 640x480, 480x360</td>
<td>Standard mode: 640x480, 480x360, Super Resolution (SR mode): 640x480, 480x360</td>
<td>Standard mode: 640x480, 480x360, Super Resolution (SR mode): 640x480, 480x360</td>
</tr>
<tr>
<td>Field of View</td>
<td>1.5m to 150m</td>
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<td>1.5m to 150m</td>
</tr>
<tr>
<td>Spatial Resolution</td>
<td>Standard mode: 0.37mm, Super Resolution (SR mode): 0.25mm</td>
<td>Standard mode: 0.37mm, Super Resolution (SR mode): 0.25mm</td>
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<td>Standard mode: 0.37mm, Super Resolution (SR mode): 0.25mm</td>
</tr>
<tr>
<td>Data Format</td>
<td>CIF, AVI (other formats available)</td>
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</tr>
<tr>
<td>Data Recording Link</td>
<td>SVHS, VHS, VHS, VHS</td>
<td>SVHS, VHS, VHS, VHS</td>
<td>SVHS, VHS, VHS, VHS</td>
<td>SVHS, VHS, VHS, VHS</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-10°C to 50°C (Non-condensing)</td>
<td>-10°C to 50°C (Non-condensing)</td>
<td>-10°C to 50°C (Non-condensing)</td>
<td>-10°C to 50°C (Non-condensing)</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>195x105x35</td>
<td>195x105x35</td>
<td>195x105x35</td>
<td>195x105x35</td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>2.3</td>
<td>2.3</td>
<td>2.3</td>
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</tbody>
</table>

Power Kit

R550 series is not including AC adapter, battery charger and AC cables.
Please order below Power kit with R550 series main unit.

Options

- 2x Telephoto Lens
- 2x Wide Angle Lens
- Standard Lens
- 2x Wide Angle Lens
- Normal Mode
- Super Resolution SR mode

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WARNINGs & CAUTIONS

Before using this product, please carefully read the provided Operation Manual “WARNINGs & CAUTIONs” section to ensure proper operation.
Please do not place the product in high temperature, high humidity or high-humidity environments.

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WARRANDS & CAUTIONS

Before using this product, please carefully read the provided Operation Manual “WARRANDS & CAUTIONs” section to ensure proper operation.
Please do not place the product in high temperature, high humidity or high-humidity environments.

Distributor:

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