Measuring From Wide Angle To Micro Area Clearly By Combination with Optional Lenses

**InfReC R500EX series**

**1.2 M pixels Infrared Thermal Imaging Camera**
- Super Resolution Mode: 1280×960 pixel
- Spatial Resolution: equivalent to 0.58mrad

**Real Time Transfer and Movie Recording into PC**
- Real time transfer of 640×480 pixel image at 30Hz in high speed (conventional ratio 2 times)
- Software makes movie recording start automatically by external trigger input to R500EX-Pro

**Temperature Resolution Upped by the Latest Noise Elimination Processing Technology**
- Temperature resolution: 0.025°C by denoising feature (the highest level of this class)
- Temperature accuracy: ±1°C (the highest level of this class)

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

**Selectable 2 models for Your Application**
- R500EX-Pro: Measuring range: -40 to +2000°C
  Suitable for use in R&D, for making high temperature measurements, and for measuring sequential data.
- R500EX: Measuring range: -40 to +500°C
  Excellent choice for inspection of electrical facilities and remotely located pipes.

1 An internal investigation as of December 2015.

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**Measuring From Wide Angle To Micro Area Clearly By Combination with Optional Lenses**

Using 21μm Closeup Lens (Resolution 21μm)

Detailed pattern can be taken sharply
Automatic Movie Recording Feature Built In

- Recording movie to connected PC automatically by external trigger input to R500EX-Pro.
- Data recording linked with test equipment and field facility is available without configuring I/O system.

User-Friendly Operation

Easy to shoot from any angle
- Multi-angle Tilting LCD Display and 2 REC Key-buttons enable flexible and comfortable one-hand operation.

Easy to use at various angle or height
- Easy to use at various angle or height.

Various Mixing Mode

Easy to compare 1.2M pixels thermal image with 5M pixels visual image.
- Picture-in-Picture
- Side-by-side
- Fusion

Measuring Distance and F.O.V

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

<table>
<thead>
<tr>
<th>Lens Type</th>
<th>% Separation</th>
<th>% Width</th>
<th>% Angle</th>
<th>Resolution</th>
<th>Super Resolution (IR mode*)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infrared</td>
<td>0.44mm</td>
<td>0.9mm</td>
<td>1.74mm</td>
<td>3.1mm</td>
<td>0.30mm</td>
</tr>
</tbody>
</table>

Specifications

- Infrared Detector: Uncooled FPA (Array Microbolometer)
- Special Range: 8-12μm
- Measuring Range: ±45 °C to 9000 °C (±45 °C to 9000 °C)
- Spatial Resolution: ±0.05 °C (±0.05 °C)
- Super Resolution: ±0.02 °C (±0.02 °C)
- Frame Rate: 30Hz
- Field of View: 32° x 24° (32° x 24°)
- Focal Distance: 10cm (10cm)
- Sensor: CMOS camera 5M pixels
- Trigger Signal: Side by side, Distance Measuring (corresponding to Picture-in-Picture).

Power Kit

R500EX series is not including AC adapter, battery charger and AC cables. Please order below Power Kit with R500EX series main unit.

Options

- Power Kit PKA-110VGM(U.S) for 110 to 120v region (US)
- Power Kit PKA-110VGM for 100 to 120v region (Taiwan)

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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 inert gas environments.

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