Real-time Temperature Data Analysis Onboard Test Drive

It is required to acquire and analyze real-time thermal image data under harsh environment where PC is impossible to be brought in and be used.

■ Avio Solution!!

Avio Thermo Flex F50 enables you to acquire and analyze real-time thermal image data under harsh environment where you are unable to bring in and use PC.

Advantage① F50 allows you to measure and analyze by its integrated functions of interval recording, trend-graph display, line-profile display, point temp. measurement, Max/Min temp. tracking.

Advantage② F50 has high environmental durability by which measurement and analysis is available where PC is unable to be used.

Advantage③ Small camera head makes thermal imaging possible under tough situation.

<table>
<thead>
<tr>
<th>Operating Environment</th>
<th>Vibration/Shock</th>
<th>Dust and Water</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Camera Head</strong></td>
<td>-20〜70℃, 90%RH (No condensation)</td>
<td>1m Drop 29.4m/s²(3G) 294m/s²(30G)</td>
</tr>
<tr>
<td><strong>Controller</strong></td>
<td>-20〜50℃, 90%RH (No condensation)</td>
<td></td>
</tr>
</tbody>
</table>

By F50, onboard temp. measurement of control circuit board under heavy vibration is possible without use of PC, which expands data acquisition opportunity.

5m extension cable is available between camera head and controller. Temp. data of suspension and engine room can be checked in driver’s sheet.
Thermo Flex F50 makes impossible thermal imaging possible

“Ultimate free angle” by detachable small camera head

Thermal imaging by fixing small camera head using commercially available accessories

![With Selfie Stick](image)

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### Thermo Flex F50 Series Specification

<table>
<thead>
<tr>
<th>Items</th>
<th>Basic Model</th>
<th>Standard Model</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>F50A-BAS</td>
<td>F50B-BAS</td>
</tr>
<tr>
<td>Field of View</td>
<td>35°</td>
<td>70°</td>
</tr>
<tr>
<td>Measurement Distance</td>
<td>30cm~</td>
<td>10cm~</td>
</tr>
<tr>
<td>Focusing</td>
<td></td>
<td>Not required</td>
</tr>
<tr>
<td>Pixel Resolution</td>
<td>240×240 pixels (57,600 pixels)</td>
<td></td>
</tr>
<tr>
<td>Frame Rate</td>
<td>7.5Hz</td>
<td></td>
</tr>
<tr>
<td>Temp. Resolution</td>
<td></td>
<td>0.05°C</td>
</tr>
<tr>
<td>Measuring Temp. Range</td>
<td>-20~350°C</td>
<td></td>
</tr>
<tr>
<td>External Interface</td>
<td>USB2.0 mass storage</td>
<td></td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP64</td>
<td></td>
</tr>
<tr>
<td>Impact Resistance</td>
<td>1m Fall</td>
<td></td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>-20~70°C</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 500g (Camera 100g, Controller 400g)</td>
<td></td>
</tr>
</tbody>
</table>

### Basic Functions

- **Message Recording**: ✓
- **Voice Recording**: ✓
- **Digital Zoom**: ✓
- **Thermal/Visible Mixing**: ✓
- **Auto Temp. Setting**: ✓
- **Alarm**: ✓

### Main Body Functions

- **Point Temp. Measurement**: ✓
- **Auto Tracking Point**: ✓
- **Interval Recording**: ✓
- **Fire Recording**: ✓
- **2-points Temp. Subtraction**: ✓
- **BOX Temp. Measurement**: ✓
- **Line Profile**: ✓
- **Trend Graph**: ✓

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Avio offers most suitable model for all of your measurement needs.

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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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