TP-U is a body surface temperature measuring unit that installs 2000 pixels thermal imaging sensor. It quickly measures the body surface temperature and if detects the alarm point temperature (ex. 38°C) then the failure lamp lightens. Install at employee entrance, school entrance, crowded facilities, etc and simply check the fever.

FEATURES

- Measures body surface temperature just in 3 seconds.
- Easy operation and self check by confirming standby, good and failure lamps.
- Hygienic because non-contact measuring.
- Prepared for stand-alone operation.
- Exclusive application software
- Universal power supply, 100 to 240 VAC.

Auto Correct: Screening function provided. Calculate the measurement correction value of the body surface temperature, which is affected by ambient temperature and reduce the effect. Then it automatically set the correction value by reflecting the alarm value for the judgment. Available for simple operation at semi-outdoor!

Manual Correct: Manually set offset adjustment of measuring temperature by PC is provided. Available for arbitrary setting of offset value!

For crowded places!

At the employee entrance... At the school entrance... At the reception desk...

*This unit is a sensor to measure a surface temperature and is not a clinical thermometer. This unit cannot be used for medical treatment or medical examination.
OPERATION EXAMPLE

**Entrance check where the ambient temperature is stable.**

**Recommended Function: Manual Correct**
The temperature inside the mouth is resistible to the outside temperature and stable measurement is possible.

**Entrance check where the ambient temperature fluctuates.**

**Recommended Function: Auto Correct**
When using semi-outdoor, Avoid direct sunlight and in the weather.

Preparation: Please warm up for 60 minutes before using.

FLOW

Example of How to Check

1. **Confirm the orange lamp is lighting.**
   Confirm that the unit is stand-by.
   Body surface temperature might change by the ambient temperature.
   
   Orange lighting

2. **Measure body surface temperature.**
   Lean your head to the sensor about 15 cm.
   Wait 3 seconds until it sounds "Be-Be-Beep".

3. **Confirm the judgment result.**
   Green lamp lightens when below the set alarm point (ex. 38°C) or red lamp blinks.

4. **Reconfirmation**

< Cautions when using >
This unit is a sensor to measure a surface temperature and is not a clinical thermometer.
The result is different to the body temperature.
After drinking cold beverages or expose to cold air then there is a possibility of detecting the body surface temperature lower.
Vice versa, if drinking hot beverages or expose to hot air, then it might detect the body surface temperature higher.

Judgment Condition
Good/Failure judgment by alarm set point. Distinct the result by lamp and buzzer.

Measurement Error Condition
When measuring too far away (more than 25cm) or when it is too close (less than 10cm)
**Body surface temperature checker application software (standard provided)**

Set various setting and display thermal image by PC.

Available to display comments

Display thermal image

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temp</td>
<td>20 to 40°C</td>
</tr>
<tr>
<td>Accuracy rating</td>
<td>±0.5°C at 37°C Ambient temperature (25°C)</td>
</tr>
<tr>
<td>Detector</td>
<td>Thermopile array Approx. 2000 Pixel</td>
</tr>
<tr>
<td>Wavelength</td>
<td>Center wavelength 10μm</td>
</tr>
<tr>
<td>Viewable Angle</td>
<td>60° x 60°</td>
</tr>
<tr>
<td>Radius Resolution</td>
<td>21.8mard</td>
</tr>
<tr>
<td>Frame Speed</td>
<td>1Hz</td>
</tr>
<tr>
<td>Focus</td>
<td>Fixed Focus</td>
</tr>
<tr>
<td>Communication Interface</td>
<td>10BASE-T/100BASE-TX</td>
</tr>
<tr>
<td>Contact Output</td>
<td>2 points, Non voltage contact output</td>
</tr>
<tr>
<td>Power Supply</td>
<td>100 to 240 V AC (universal power supply)</td>
</tr>
<tr>
<td>Working Temp</td>
<td>0 to 40°C</td>
</tr>
<tr>
<td>Working RH</td>
<td>10 to 80% (No dew condensation)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 0.7kg</td>
</tr>
<tr>
<td>Installation</td>
<td>Wall mounting, desktop or tripod (Please prepare the tripod at your side)</td>
</tr>
<tr>
<td>Warm up time</td>
<td>Approx. 60 minutes</td>
</tr>
<tr>
<td>Standards</td>
<td>CE (EN61326-1/Class A)</td>
</tr>
</tbody>
</table>

### FUNCTIONS

- **Temp Judgment Function**: Set per 0.5°C
- **Designate Alarm Judgment Area**: Change Judgment Area
- **Comment Function**: Display comment to the judgment result of value exceeding the setting
- **Data Storage**: Auto save by measurement data (CSV) and thermal image (JPEG)
- **Measurement Temp. Correction**: Manual Correct: Set per 0.1°C by PC Auto Correct: The unit automatically set the correction value
- **Language**: Japanese, English, Chinese (Simplified characters) and Korean

### STANDARD CONFIGURATION

- Unit Type Body Surface Temperature Checker
- Wall-mounting holder (For both wall-mount and tripod)
- Table-stand
- Urea capped screw (2 pieces)
- Wood screw (2 pieces)
- LAN cable
- Lens cap
- CD-ROM (Application software manuals & Instruction manual)
- Quick manual
- Measuring Position Display Plate
- Operation Procedure Sticker
- Power cable (3.3m)
- AC Adapter

(Required to use AC adapter according to each country safety standard other than Japan and North America so contact CHINO for the details.)
DIMENSIONS

- Measuring Hood Model: SPN
  - Used for when installing TP-U
  - Dimensions: 115 x 86.5 x 170 mm
  - Unit: mm