

HIOKI

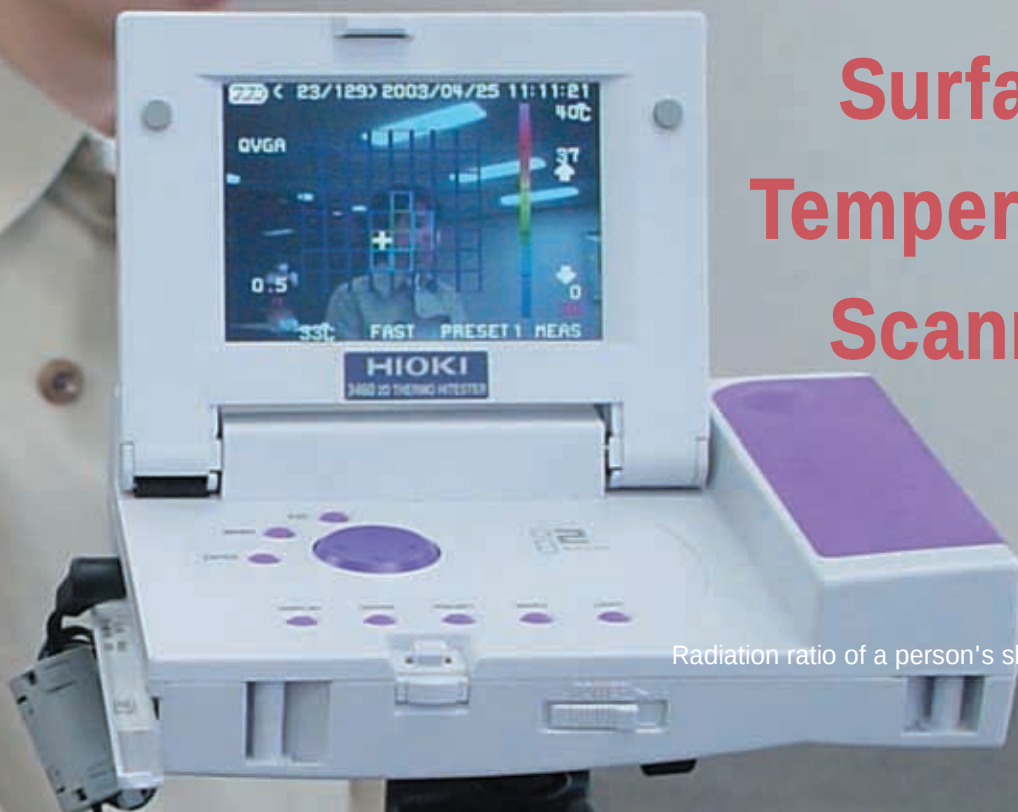
2003

Instantaneous Imaging of 64-Point Temperature Distributions 3460 2D THERMO HiTESTER

Environmental Measuring Instruments



Quick and Easy Non -Contact Surface Temperature Scanner



Radiation ratio of a person's skin is 0.98



<http://www.hioki.co.jp/>

HIOKI company overview, new products, environmental considerations and other information are available on our website.

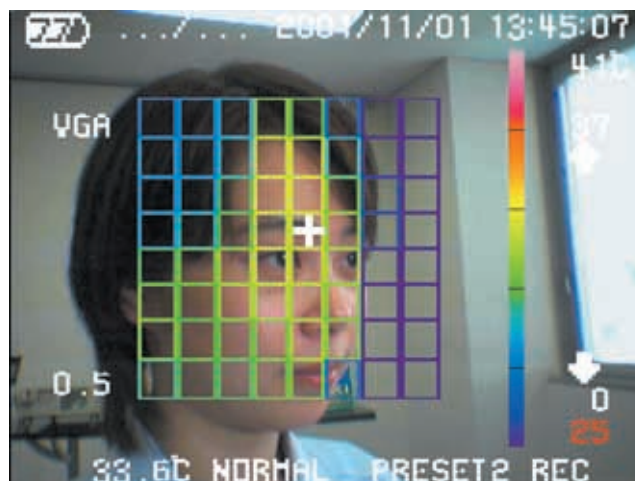


ISO14001
JQA-E-90091

The Surface Temperature of a Human Face

The surface temperature distribution of a human face can be efficiently evaluated using 3460 2D THERMO HiTESTER to assess whether or not further health examinations are necessary. Applications include the prevention of contagious viruses at airports, hospitals, hotels, and other public locations where traffic is high. The human body is normally 1 or 2 degrees higher at the torso and forehead, and cooler at the cheek areas, facts that can be used to make more intelligent conclusions about a person's well-being. Because the response time of the 3460 is 0.5 seconds, note that measurement target must remain stationary in front of the instrument's camera momentarily. When measuring face temperature, set the emission ratio to 0.98.

The Data and Photo recorded on a CF Card



▲ Measurement data and photography recorded on a compact flash card. "33.6°C" indicates temperature of the frame pointed "+" mark cursor.

SPECIFICATIONS

Temperature Measurement

- Detection Element : Thermopile Array
- Measurement Range : -50 to 1000°C
- Response Speed : 0.2 seconds maximum
- Number of Elements 64
- Measurement View Angle for One Element : 3.1° square (55 mm square at 1 m)
- Measurement View Angle : 24.8° square (440 mm square at 1 m)
- Infrared Wavelength : 8 to 16 μm
- Radiation Ratio Correction : 0.1 to 1.00 (steps of 0.01)
- Resolution : 0.1°C
- Accuracy : ± (10% rdg + 2)°C (-50 ~ 0.1°C), ± 2.0°C (0 ~ 200°C), ± 1% rdg (200.1 ~ 1000°C)
- Relative Accuracy 1.5°C (P-P, 23°C)

Visual Photography

- Detection Element : Color CMOS
- Frame Time : Less than 0.5 seconds
- Number of Pixels : 300,000 (640 × 480)
- Image Angle : Horizontal 50.0° × Vertical 37.5° (Horizontal 930 mm × Vertical 680 mm at 1 m)
- Smallest Distance 0.5 m

Display

- Display Element : Transmission Type Color TFT Liquid Crystal
- Size : 3.8 Inch
- Number of Pixels : 76,800 (320 × 240)
- Display Colors : 65535 Colors (16-Bit)
- Backlight : Cold Cathode Tube
- Temperature Display (Each Element) : Box Color Display (Display range and pattern can be chosen.)
- Temperature Display



(Selection Element) : Numerical Display ● Parallax Error : 26 mm Constant ● Optical Axis Displacement : 1.15° (20 mm at 1 m, excluding parallax)

Functions

- Display Language : English
- Temperature Units : °C (or °F, option)
- Logging Measurement : Specified in units of minutes (hh:mm), Maximum length 24:00.
- Measurement Data Memory : Compact Flash Card (16 to 512 MB)
- Storage Format : JPEG File (Image Data, 76800 / 300000 pixels), CSV File (Temperature Value Data)
- Image Data Deletion : Selective Deletion
- Audible Click : Yes
- Alarm : Yes (Buzzer and Display Alarm)
- Automatic Power Save : Yes
- Clock : YY/MM/DD hh:mm:ss
- Backlight Intensity : 3-Level Adjustment or None
- Battery Remaining Indicator : 3-Level Display

Basic Specifications

- Image Output : NTSC Video Output
- Power Source : LR6 (AA) Alkaline Batteries × 6, AC Adapter (Option)
- Rated Power Source Voltage : DC 1.5V × 6 (LR6), DC 9V
- Maximum Rated Power : 13.5 VA
- Stand-by Current : Less than 2mA
- Continuous Operating Time : 70 minutes (LCD Intermediate Level, 20°C)
- Operating Temperature and Humidity Range : 0 to 40°C, 35 to 75% RH (No Condensation)
- Guaranteed Accuracy Temperature and Humidity Range : 23 ± 5°C, 35 to 75% RH (No Condensation)
- Dimensions and Weight : 167 W × 55 H × 123 D mm, About 700 g (Instrument only, with display closed.)
- Included Accessories : LR6 (AA) Alkaline Batteries × 6, Shoulder Strap, Compact Flash Card (16 MB), User's Guide
- Options : 3915 Option Pack (Portable Case, Video Cable, AC Adapter, PC Card), PC Card (32M, 64M, 128M, 256M, 512M Compact Flash Card and Adapter), PC Card Adapter (for Compact Flash Card)

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