FLIR SC660 is a high performance infrared system used for science and research applications within the long wave spectral range. With its 640x480 resolution it produces sharp images with high accuracy radiometric readings. Camera portability increases the flexibility of use. A Firewire port is available for real time image transfer to PC for data capture and analysis. The camera is equipped with the standard 24° lens.

- Image resolution 640x480
- Sensitivity <30 mK
- Real time radiometric storage to built-in RAM
- Real time radiometric data streaming to PC over Firewire
- Supports Windowing
- Large high resolution 5.6” flip-out LCD
- Tilted high resolution viewfinder
- Wide variety of high performance lenses with USM technology
- 1-8 times continuous zoom with pan
- Picture in Picture
- Thermal fusion: above, below interval
- Rotatable handle for convenient operation
- Built-in 3.2 Mpixel digital camera with target illuminator
- Standard temperature range -40 °C to 1500 °C
- 1%, 1°C accuracy
- Periodic storage
- Panorama
- Voice and text annotation
- Contrast optimization
- Laser locator with automatic alignment
- Built-in GPS
- Programmable buttons
- User profiles

In Research & Development, process control and product testing evaluation, accuracy and reliability are vitally important. That’s why FLIR SC-Series cameras are widely used around the world for applications as diverse as micro-electronics, automotive and aerospace industries, plastics injection molding, consumer appliance design, target signatures, mechanical fatigue testing, plant and biology researches, material evaluation, airborne detection and much more. Our cameras are used for capturing thermal distribution and recording variations in real time, allowing engineers to see and accurately measure heat production or dissipation process, leakage and other temperature factors in equipment, products and processes.

The FLIR SC660 is the perfect choice designed for R&D applications, when a portable infrared camera is preferred.
FLIR SC660 Technical Specifications

**Imaging and optical data**
- Field of view (FOV) / Minimum focus distance: 24° x 18° / 0.3 m
- Spatial resolution (IFOV): 0.65 mrad
- Thermal sensitivity / NETD: <30 mK @ 30°C
- Image frequency: 30 Hz (60/120 Hz with windowing)
- Focus: Automatic (one shot or follow the laserspot) or manual (electric or on the lens)
- Zoom: 1–8 continuous, digital zoom, including panning
- Focal Plane Array (FPA) / Spectral range: Uncooled microbolometer / 7.5–13 μm
- IR resolution: 640 x 480 pixels

**Image presentation**
- Display: Built-in widescreen, 5.6 in. LCD, 1024 x 600 pixels
- Viewfinder: Built-in, tiltable LCD, 800 x 600 pixels
- Automatic image adjustment: Continuous / manual; linear or histogram based
- Manual image adjustment: Level/span / max / min
- Contrast optimization: Automatic, adjustable DDE
- Image modes: IR-image, visual image, thermal fusion, picture in thumbnail gallery
- Reference image: Shown together with live IR image

**Measurement**
- Temperature range: –40°C to +150°C
- Accuracy: ±1°C or ±1% of reading for limited temperature range, ±2°C or ±2% of reading

**Measurement analysis**
- Spotmeter: 10
- Area: 5 boxes or circles with max. / min. / average
- Automatic hot / cold detection: Max / Min temp. value and position shown within box, circle or on a line
- Isoterm: 2 with above / below / interval
- Profile: 1 live line (horizontal or vertical)
- Difference temperature: Delta temperature between measurement functions or reference temperature
- Reference temperature: Manually set or captured from any measurement function
- Emissivity correction: Variable from 0.01 to 1.0 or selected from editable materials list
- Measurement corrections: Reflected temperature, optics transmission, atmospheric transmission and external optics
- Measurement function alarm: Audible/visual alarms (above / below) on any selected measurement function
- Humidity alarm: 1 humidity alarm, including dew point alarm
- Insulation alarm: 1 insulation alarm

**Set-up**
- Set-up commands: Configurable measurement tools menu; configure information to be shown in image; 2 Programmable buttons; user profiles; local adaptation of units, language, date and time formats

**Storage of images**
- Image storage: Standard JPEG, including measurement data, on memory card
- Image storage mode: IR / visual images; simultaneous storage of IR and visual images
- Periodic image storage: Every 10 seconds up to 24 hours
- Panorama: For creating panorama images in FLIR Reporter Building software

**Image annotations**
- Voice: 60 seconds stored with the image
- Text: Predefined text or free text from PDA (via IrDA) stored with the image
- Image marker: 4 on IR or visual image
- GPS: Location data automatically added to every image from built-in GPS

**IR positioning and streaming**
- Radiometric IR-video recording: Real-time to built-in RAM, transferable to memory card.
- Radiometric IR-video streaming: Real-time full dynamic to PC using FireWire 30 Hz or 60/120 Hz with windowing using FLIR ResearchIR
- Non-radiometric IR-video recording: MPEG-4 to memory card
- Non-radiometric IR-video streaming: MPEG-4 to PC using USB or WLAN (optional)

**Digital camera**
- Built-in digital camera: 0.2 Mpxixel, auto focus, and video lamp
- Laser: Activated by dedicated button
- Laser mode: Auto Focus/Level/Spotmeter
- Laser alignment: Position is automatically displayed on the IR image

**Communication interfaces**
- Interfaces: USB-mini, USB-A, IrDA, composite video, headset connection

**Power system**
- Battery: 1 Li-ion, 3 hours operating time
- Charging system: In camera (AC adapter or 12 V from a vehicle) or 2-bay charger
- Power management: Automatic shutdown and sleep mode (user selectable)

**Environmental data**
- Operating temperature range: –15°C to +50°C
- Storage temperature range: –40°C to +70°C
- Humidity (operating and storage): IEC 68-2-30A/24 95% relative humidity +25°C to +40°C
- Encapsulation: IP 54 (IEC 60529)
- Bump: 25 g (IEC 60068-2-29)
- Vibration: 2 g (IEC 60068-2-6)

**Physical data**
- Camera weight, incl. lens and battery: 1.8 kg
- Cameras size, incl. lens (L x W x H): 299 x 144 x 147 mm
- Tripod mounting: UNC 1/4-20

**Supplies & Accessories**
- Optional softwares for R&D requirements
  - FLIR Reporter Ver. 8.5 Professional
  - FLIR Reporter Ver. 8.3 Standard (Sec. device)
  - FLIR Reporter Ver. 8.3 Professional (Sec. device)

- Remote Control Unit
- Headset, 3.5 mm plug
- Hard transport case for FLIR B/P/SC640
- Cigarette lighter adapter kit, 12 VDC, 1.2 m
- Video cable, RCA <-> RCA, 2.0 m
- Cigarette lighter adapter kit, 12 VDC, 1.2 m
- Hard transport case for FLIR B/P/SC640
- Headset, 3.5 mm plug
- Remote Control Unit
- FLIR Reporter Ver. 8.3 Professional (Sec. device)
- FLIR Reporter Ver. 8.3 Professional (Sec. device)
- FLIR Reporter Ver. 8.3 Standard
- FLIR BusIR
- FLIR Reporter Ver. 8.5 Standard
- FLIR Reporter Ver. 8.5 Professional
- Cover Visual Camera mill

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