FLIR RS6700

RANGE & SCIENTIFIC INFRARED CAMERA

EAN 108813 / E-NR

The RS6700 is a multi-application long range infrared camera system designed for range tracking, target signature, research, and science applications. RS6700 cameras are rugged, high performance, full-featured radiometric instruments that can survive the harshest of environments.

PERFECT FOR LONG-RANGE IMAGING

Dual-FOV optics and fast autofocus help you track fast, distant targets, while the sensitive 640 x 512 detector highlights temperature variations.

INTERFACE FLEXIBILITY

Multiple independent video outputs include industry-standard Camera Link™, Gigabit Ethernet and composite video (NTSC or PAL).

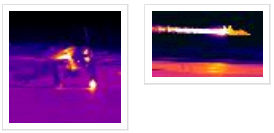

IMAGE TRIGGERING AND TIME STAMPING

Advanced sync and trigger features allow user to choose from internal clock, external BNC input, IRIG time, or software trigger.

OVERVIEW

Detector Type: FLIR Indium Antimonide (InSb)
Dynamic Range: 14-bit
Integration Time: 480 ns to 687 sec
Mounting: 5 × 1/4" – 20
Power: 24 VDC
Spectral Range: 3.0 – 5.0 µm
Well Capacity: 7.2 M electrons
Zoom: 1-4×, Digital Zoom, Panning
Size [L × D]: RS6700: 558.8 × 228.6 mm (22 × 9 in) / RS6701: 558.8 × 228.6 mm (22 × 9 in) / RS6702: 609.6 × 228.6 mm (24 × 9 in)

CONNECTIONS & COMMUNICATIONS

Analog Video: NTSC, PAL
Synchronization Modes: Genlock; IRIG-B; Sync In, Sync Out

ENVIRONMENTAL

Altitude: 0 to 40,000 Feet Operational; 0 to 70,000 Feet Non-operational
Encapsulation: IP67
Operating Temperature: Range -32°C to 55°C (-25.6°F to 131°F)
Storage Temperature: Range -46°C to 71°C (-50.8°F to 159.8°F)

IMAGING & OPTICAL

AGC: Manual, Linear, Plateau Equalization, ROI, DDE
Available Lenses: RS6700: 50/250 mm; 11° × 8.8° / 2.2° × 1.8°, RS6701: 100/500 mm; 5.5° × 4.4° / 1.1° × 0.9°, RS6702: 150/750 mm; 3.7° × 2.9° / 0.7° × 0.6°
Camera Control: Gigabit Ethernet, USB, RS-232, Camera Link
Camera f-number: f/4.0
Close-up Lenses/Microscopes: NA
Detector Pitch: 15 µm
Digital Data Streaming: Simultaneous Gigabit Ethernet and Camera Link
Focus: Automatic or Manual (Motorized)
Frame Rate [Full Window]: Programmable 0.0015 Hz to 126 Hz
HD Video: NA
Image Time Stamp: Internal IRIG-B Decoder Clock / TSPI Accurate Time Stamp
Max Frame Rate [at Min Window]: 4.175 kHz (16 × 4)
Operability: >99.8% (>99.95% Typical)
Palette: Selectable 8-bit
Readout: Snapshot

Readout Modes: Asynchronous Integrate While Read; Asynchronous Integrate Then Read
Resolution: 640 × 512
Sensor Cooling: FLIR Closed Cycle Rotary
Subwindow Modes: Flexible windowing (steps of 16 columns, 4 rows)
Overlay: Customizable (IRIG-B, Date, Integration Time, Internal Temp, Frame Rate, Sync Mode, Cooler Hours)

MEASUREMENT & ANALYSIS
Accuracy: NA
NETD: <25 mK

THERMAL IMAGING
Detector Resolution: 640 x 512

Tekniske Data: