CASE Technology Solutions

Case Model EXC1200-v3

Dual Sensor Thermal & IP Camera

Dual Thermal and IP Sensors with High Sensitivity Thermal Module (256 x 192 resolution) and High Resolution IP Camera (1920 x 1080 resolution). Thermal Image Processing Technology, Adaptive AGC, DDE, 3D DNR, Up to 15 palettes of adjustable color, bi-spectrum image fusion.

Reliable temperature-anomaly alarm, Temperature Range from -15°C to +150°C, High quality optical module with 2 MP resolution, Bi-spectrum image fusion, Picture-in-picture preview.

Features include fever detection, object detection and identification, object tracking, alarms and alerts, zone tracking, auto recording with snapshots, time and date stamps, and easy to deploy instructions.

The Thermal Camera Model EXC1200 is sold as a stand-alone camera with advanced analytics, or as part of a quick-deploy Thermal Kit with everything you need to deploy. The stand-alone camera comes with a single camera license and can be used with other cameras (Case software license required for all cameras) or can be used as a stand-alone solution. The quick-deploy kit, Model Number EXC1200-KIT, includes the camera, camera mount, tripod, laptop, security lock, 8 port PoE switch, surge protector, cables, four Case Professional Camera Licenses and a hardened travel kit. When properly installed the EXC1200 is accurate within -.3°C and makes a perfect fever detection solution with a full suite of security analytics.

This all-in-one solution allows users to view a single camera or multiple cameras in an easy to customize control panel. Reports can be generated on a daily, weekly, monthly, and yearly basis. Fever and security analytics can trigger audible and visual alarms the moment a threat is detected.

IP Processing:
Hi3516E HD IP Camera SoC, Video and Graphics Processing, 3DNR, image enhancement, and DCI, Anti-flicker for output videos and graphics, 1/15x to 16x video and graphics scaling, Image mirror and flip, OSD overlaying of eight regions before encoding, Lite OS/Linux-4.9-based SDK.

Thermal Computing:
LPC4350/30/20/10, ARM Cortex-M4/M0 Flash-less MCU, up to 264 kB SRAM, Ethernet; Two HS USBs, Advanced configurable peripherals, 4Gb E-die DDR3 SDRAM X 2, 16GB Storage.

Series Switching Capability:
Mini 24v PoE switch board allows power out from DC 5-30V with auto-sensing network rj45 port. Complies to IEEE 802.3, IEEE 802.3u, IEEE 802.3x. Stackable power out can power additional PoE cameras minimizing cable runs and saving costs.

Thermal	
Image Sensor	VOx Uncooled Focal Plane Arrays
Resolution	256×192
Pixel Interval	12μm
NETD	Less than 60 mK (@25°C,F#=1.1)
Aperture	F1.0
Field of View	35°× 27°(H × V)

Optical	
Image Sensor	1/2.8" 2.0M Pixel CMOS
Resolution	1920×1080P
Min. Illumination	Color: 0.005Lux @ (F1.2, AGC ON), B/W: 0.001 Lux @ (F1.2, AGCON
Field of View	84 x 45
Focal Length	4mm
Shutter Speed	1s to 1/100,000s
White Balance	Auto/Manual/ATW (Auto-tracking White Balance)/Indoor/Outdoor/Daylight Lamp/Sodium
Day & Night	ModeIR cut filter with auto switch Lamp
WDR	80 dB
Feature	
Bi-spectrum Image Fusion	Fusion view of thermal view and overlaid details of the optical channel
PoE power in and PoE power out	Stackable switching PoE power out-put provides power and connectivity to the next PoE camera for series connection capability.

Smart Function	
Face snapping	Built-in deep learning AI algorithm, simultaneous detection of 20-30 faces
Temperature Measurement	Support global and local temperature
Temperature Range	From -15°C to +150°C
Temperature Accuracy	Target temperature 35°C ^ 38°C Accuracy 0.3°C

Network	
Main Stream	Thermal: 25fps (1920 × 1080, 1280 × 720)
Sub Stream	Thermal: 25fps (704 × 576, 352 × 288)
Video Compression	H.264 (Baseline/Main/High Profile) /MJPEG/H.265
Audio Compression	G .711u/G.711a/G.722.1/MP2L2/G.726/PCM
Protocols	TCP/IP, ONVIF, GB/T 28181, DHCP, RTP, RTSP, PPPoE, UPnP, UDP
API	ONVIF (Profile S, Profile G, Profile T)

General	
Web Client Language	English
Power	DC 12V, 0.65A
Work Temperature/Humidity	From -20°C to 55°C; Humidity: 95% or Less
Protection Level	IP67
Dimension	246 mm × 101 mm × 81 mm (with bracket)
Weight	Approx. 1.0 kg

Software Features	
Thermal Detection	Fever Detection and Human Temperature Recognition
Object Identification	Objects pre-defined in the system and recognized automatically.
Reporting	Date(s) of Event, (video) Channel, Report Name (custom)
Monitoring	Channels Viewed, Analytics, Events, Alarms with filters
Video Playback	Play, FF, RW, Playback Speed Adjustment, Loop Playback
Speed	Speed of Objects: Custom Calculation and Calibration
Object Detection Settings	Selectable Frame Processing Frequency, Use Previous Processed Frame (for any unprocessed frame)
Object Detection Advanced	Detection Setting/ Confidence Level Adjustment, Custom Bounding Boxes
IR Code Badge Reading	Associate employee badges with fever detection test, stores information and can trigger access control
Case Professional	Includes additional Analytics Object ID and Facial Recognition 10,000+

Project IP Cameras

Additional IP cameras available. Cameras include advance replacement warranties, setup support, and are sold through channel partners. Case Video Management and Safety System™ software not included.

Smart Camera Option

EXC-1200-SMART

The EXC-1200 Smart Camera option creates a complete built-in workstation within the camera. It comes with a Linux OS that can be upgraded to Windows 10, 8GB RAM, and 64GB of video storage which is also upgradeable. The Smart Camera allows users to run a full suite of surveillance software analytics and thermal fever detection from the camera. Store onboard video or create a network share and store video from other cameras, all accessible wirelessly or through network remote options. Complete backups and restore points can be created along with roaming profiles and other standard Windows functions are all available on the Smart Camera. The EXC-1200 also comes standard with an internal PoE switch with power out capability allowing up to four cameras to be connected in series to greatly reduce the cost of cable runs and labor.

Features

Processor	CPU	Intel Mobile 4th Haswell-M i7 CPU
	CPU package	RPGA946 Socket
	Chipsets	Intel Mobile 4th Haswell-M, HM87 Chipset
	BIOS	EFI BIOS
RAM	Technical architecture	Single channel 1066/1333/1600 MHZ
	Volume	Integrated Onboard DDR3 8GB RAM
Video and Interfacing	Graphic controller	Intel@ HD Iris Pro Graphics
	Mini-PCle	1*Mini-PCIe socket, support PCIe, USB device
	SMBUS	2pinSM-BUS pin header
	SATA	2*SATAII interface (Maximum transmission rate to 3gb/s)
	M-SATA	2*SATAII interface (Maximum transmission rate to 3gb/s)
Temperature	Working Temperature	-20°C~70°C (-4°F~158°F)
	Storage Temperature	-20°C~80°C (-4°F~176°)
Humidity	Operating Humidity	10%~90% (non-condensing)
	Storage Humidity	10%~90% (non-condensing)
Certification and Software	Certification	ROHS, CE, FCC
	Software	Case-LT Analytics
Feature	Power-Loss	Safe Shutdown
	Powering	Wake-on-LAN
	Connectivity	Bluetooth 4.0
	Connectivity	Ethernet