

SATIR UPC

Universal Thermal Imager Core



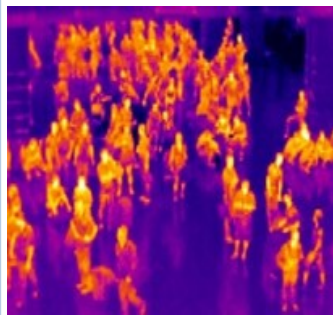
SATIR Universal Purpose Core (UPC) is an uncooled longwave thermal imager core which has been designed to be a highly modular product for the OEMs & integrator market.

With the multiple optional solutions, image processing and the standard video output, UPC can be easily integrated in the existing surveillance & security cameras or CCTV systems, robots, drones, UAVs and vehicles.

Thermal cameras have been used for many years in a wide variety of applications and markets and with this new smaller and lighter core the application are even greater.

Features

- Uncooled IR 80x80,160x120, 384x288, 640x480 detector
- Industry standard interfaces for power in, video output
- Multiple optical lens solutions
- Temperature measurement (Optional)
- Standard PAL/NTSC video format
- Compact, lightweight and small
- High performance-cost ratio



Camera Name	UPC Core			
UPC Specification	80x80	160x120	384x288	640x480
Thermal Sensitivity (N.E.T.D)	≤0.1°C@30°C ≤0.08°C@30°C ≤0.05°C@30°C ≤0.05°C@30°C			
Detector Type	Focal Plane Array (FPA), uncooled microbolometer			
Spectral Range	8-14μm			
Focus Mechanism	Adjustable Lenses			
Measurement				
Temperature Range	-20°C+250°C (-4°F TO 482°F, UP TO 600°C/1112°F (Optional)			
Accuracy	±2% Or ±2% Of Reading			
Measurement Tools	Centre Spot, Auto Hot/Cold spot, Isotherm			
Temperature Alarms	Yes			
Set-up Controls	Language/Palettes/Units			
Measurement Corrections	Ambient Temperature/Emissivity Correction/Distance/Humidity			
Environmental				
Operating	-15°C to 50°C (5°F to 122°F)			
Storage	-40°C to 70°C (-104°F to +158°F)			
Humidity	95% relative humidity, non-condensing			
Encapsulation	IP40			
Physical Characteristics (Camera Body)				
Weight	145g (Standard Unit)			
Dimensions	52.5mm*43.5mm*43.5mm			
Interfaces				
Power Input	DC 8-12V Output to camera			
Video Output	Output the composite video in NTSC@60Hz/PAL@50Hz format			
RS232	Controlling and setting			
Keypad	Yes (Optional)			
Optional Parts				
Optional Lens [2] 80x80	3mm: 51.6°X38.7° [11.2mrad 34μm]			
Optional Lens [2] 160x120	6mm:38.2°X 28.6° [4.17mrad 25μm] 9mm:25.5X19.1° [2.78 mrad 25μm] 10.3mm: 22.4°X16.8° [2.44 mrad 25μm] 35mm: 6.4°X4.8° [0.71 mrad 25μm]			
Optional Lens[2] 384x288	9mm:50.9°x38.2°[2.78mrad 25m] 10.3mm: 46.0°x34.5°[2.51mrad 25μm] 18.8mm: 23.4° x 17.6° [1.28mrad 25μm] 35mm: 12.8°x9.6° [0.70mrad 25μm] 50mm:9.2°X6.9° [0.50mrad 25μm]			
Optional Lens [2] 640x480	9mm: 73° x 53.5° [1.99mrad 17μm] 13mm: 47.8x35.9° [1.30mrad 17μm] 25mm: 24°x18.2° [0.66mrad 17μm]			

Please be aware specifications can vary from time to time