

UPC-Series

Motorized Focus Network Core



SATIR are pleased to announce the launch of the UPC-Series. We are delighted to offer our customers a range of compact thermal cameras. The UPC-400 has been designed to support the resolution 400x300 whereas its counterpart the UPC-600 has a resolution of 640x512.

They both have the ability to detect and recognise both humans and vehicles in their view even through bad weather conditions.



Key Features

- 25/50/75/100 mm motorized lens optional
- Support 3 temperature measurement rule types (spot, line, area)
- Sensitivity $\leq 40\text{mK}$
- Smart events: intrusion, single line crossing, double line crossing, loitering, wrong-way.

UPC Series Specifications

Model	UPC 400				UPC 600			
Thermal Core								
Detector Type	Uncooled IRFPA Microbolometer				VOx Uncooled Focal Plane Arrays			
Resolution	Sensor is 400×300. Image can be scaled up to 704×576				Sensor is 640×512. Image can be scaled up to 1280×1024			
Pixel Pitch	17 μm				12μm			
Thermal sensitivity (NETD)	≤ 40 mK				≤ 40 mK			
Spectral Range	8 ~ 14 um				8-14μm			
Lens Type	Fixed				Fixed			
Focus Control	Motorized Focus				Motorized Focus			
Focal Length	25mm	50mm	75mm	100mm	25mm	50mm	75mm	100mm
F No.	F1.0	F1.0	F1.0	F1.0	F1.0	F1.0	F1.0	F1.0
Angle of View	H:15.4°, V:11.6°	H:7.7°, V:5.8°	H:5.1°, V:3.8°	H:3.8°, V:2.3°	H:17°, V:14°	H: 8°, V:7°	H: 6°, V:5°	H: 4.3°, V:3.5°
Detection Distance (Fire: 1mx1m)	735m	1471m	2206m	2941m	1042m	2083m	3125m	4167m
Detection Distance (Humans: 1.8mx0.5m)	735m	1471m	2206m	2941m	1040m	2081m	3121m	4161m
Detection Distance (Vehicles: 4x1.5m)	2255m	4510m	6765m	9020m	3194m	6389m	9583m	12778m
Recognition Distance (Humans: 1.6x0.5)	184m	368m	551m	735m	260m	520m	780m	1040m
Recognition Distance (Vehicles 4x1.5m)	564m	1127m	1691m	2255m	799m	1597m	2396m	3194m
Video and Audio								
Main Stream	704×576 @ 25/30fps				1280×1024, 1280×720, 640×512 @ 25fps			
Sub Stream	CIF @ 25/30fps				D1, CIF @ 25fps			
Bit Rate Control	CBR/VBR				CBR/VBR			
Bit Rate	Main stream: 100Kbps ~ 6Mbps Sub stream: 10Kbps ~ 1.5Mbps				Main stream: 100Kbps ~ 8Mbps Sub stream: 100Kbps ~ 6Mbps			
Region of Interest	Off / On (8 Zone, Rectangle)				Off / On (8 Zone, Rectangle)			
Smart Encode	Support				Support			
Audio Compression	G.711: 8kbps, RAW_PCM: 16kbps				G.711: 8kbps, RAW_PCM: 16kbps			

Please be aware specifications can vary from time to time

UPC Series Specifications

Image		
Image Setting	Brightness, Sharpness, Contrast	Brightness, Sharpness, Contrast
Mirror	Support	Support
Pseudo-colour Setting	White-hot/Black-hot/Rainbow/Ironbow etc. up to 17 modes	White-hot/Black-hot/Rainbow/Ironbow etc. up to 17 modes
DVE Image Enhance	Support	Support
Noise Reduction	2D/3D DNR	2D/3D DNR
Privacy Masking	Support	Support
Smart Function		
Smart Alarm	Motion detection, Disk alarm, I/O alarm, IVS alarm, Temperature detection & alarm	Motion detection, Disk alarm, I/O alarm, IVS alarm, Temperature detection & alarm
AI Multi-object	Support human and vehicle detection	Support human/vehicle detection, fire point detection, ship detection
Intelligent Analysis	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Enter area, Leave area (these 7 function support accurate detection of people/vehicles), People counting	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Enter area, Leave area (these 7 function support accurate detection of people/vehicles), People counting
Temperature Detection		
Temperature Detection	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).
Temperature Alarm	Over temperature alarm, Temperature difference alarm	Over temperature alarm, Temperature difference alarm
Accuracy	±2°C / ±2%	±2°C / ±2%
Response Time	≤ 30ms	≤ 30ms
Temperature Range	-20°C ~ 150°C (-4°F ~ 302°F)	-20°C ~ 150°C (-4°F ~ 302°F)
Temperature Display Mode	Temperature target >5°C, Display absolute temperature value, Temperature target ≤5°C, Display relative temperature value (temperature difference DEV = highest value - average)	Temperature target >5°C, Display absolute temperature value, Temperature target ≤5°C, Display relative temperature value (temperature difference DEV = highest value - average)
Network		
Protocols	IPv4/IPv6 ,HTTP,RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, 802.1x	IPv4/IPv6 ,HTTP,RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, 802.1x
Interoperability	ONVIF, CGI, SDK	ONVIF, CGI, SDK
Max. User Access	10 Users	10 Users
Web Viewer	<IE11, Chrome, Firefox	<IE11, Chrome, Firefox, Microsoft Edge
Web Language	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian

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UPC Series Specifications

Interface		
Network Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector	1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	1ch input, 1ch output	1ch Audio In, 1ch Audio Out
Alarm Interface	2ch input, 2ch output	1ch Alarm In, 1ch Alarm Out
Control Interface	DS485	1ch RS485, 1ch RS232
RS485	Support	Support
Reset Button	Support	Support
SD Card Slot	Support, up to 256GB	Built-in, up to 256GB
General		
Power Supply	DC12V ±10%	DC12V ±25%
Power Consumption	Max 5 W	Max 3.5 W
Working Temperature	-40°C ~ 60°C (-40°F ~ 140°F)	-40°C ~ 60°C (-40°F ~ 140°F)
Storage Conditions	0~ 90% RH	0~ 90% RH
Certifications	CE /FCC	CE /FCC
Ingress Protection	N/A	N/A
Casing	Metal	Metal
Dimensions	154.7 × 70 × 70 mm (6.09 × 2.76 × 2.76 inch)	64.8 × 52 × 52 mm (2.55 × 2.05 × 2.05 inch) without lens
Net Weight	0.7 kg (1.54 lb) with 50 mm lens	0.2 kg (0.44 lb) without lens

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