

PYTHON-640

AP21E00



The PYTHON-640 Camera is an excellent static LWIR thermal camera with various lens options from 9mm, 13mm, 25mm, 35mm 50mm etc

Salient Features

- 50 Hz Max Framerate
- 640 x 480 Array Format
- 8 to 14 μm spectral band
- 12V Single Power Supply/PoE
- Low Power < 2W
- Analog (PAL/NTSC) output
- On-Board NUC Calibration
- Edge based Video Analytics

Applications

- Perimeter Security
- Airport Security Surveillance
- Homeland Security
- Govt Installation Security
- Hospital and Prison Security Surveillance
- Military Surveillance

Tracking and Analytics

- 2 D/ 3D tracking, Ship Tracking
- Variable Aspect Ratios
- Object removal , line crossing
- Crowd counting, Loitering
- Simultaneous 8 analytic



SPECIFICATION

Camera	
Array Type	<i>Uncooled Micro-bolometer amorphous Silicon</i>
Spectral Band	<i>8 - 14µm</i>
Array Size	<i>640 x 480</i>
Pixel Pitch	<i>17 µm x 17 µm</i>
Array Cooling	<i>Uncooled</i>
Pixel Operability	<i>99%</i>
Color Palettes	<i>12 selectable color maps</i>
Electrical Specifications	
Optical Fill Factor	<i>100%</i>
NETD	<i>60 m</i>
Required Voltage	<i>5V</i>
Power Required	<i>< 1W</i>
Max Framerate	<i>50Hz</i>
Image Correction	<i>NUC (1-point, 2 point), BPR</i>
Lens Specification	
Lens Options	<i>9mm, f1.0</i>
DRI Range	<i>Human 190m, 99m, 50m : Object Range: 700m 4 storey building</i>
In/Out Interface	
Digital Video Output	<i>Ethernet Video Stream</i>
Analog Output	<i>PAL/CVBS (NTSC), Programmable Aspect Ratio</i>
Analog Video Format	<i>1 V pp, SMB, 75 Ohm</i>
Host/User Interface	<i>USB/ UART, RS-232/422/485</i>
Video	
Compression	<i>H.264</i>
Streaming	<i>Multiple configurable streams in H.264 and M-JPEG, configurable frame rate and bandwidth</i>
Camera Processing Latency	<i>< 50ms</i>
Object Filters	<i>Duration, Size, Aspect Ratio Speed and Direction etc</i>
Environmental & Physical Specifications	
Operating Temperature	<i>-50° to +60°</i>
Storage Temperature	<i>-50° to +85°</i>
Weight	<i><85 grams without lens</i>
Dimensions (LxHxW) in mm	<i>50x50x55</i>
Operating Humidity	<i>5% to 95% RH non-condensing</i>
Storage Humidity	<i>Up to 98%</i>
Analytics	
	<i>Line Crossing, Entering and leaving field, Loitering, Counting, Occupancy Condition Change, Location masking, 2-D/3-D people tracking, simultaneous multiple analytics.</i>
Video Authentication	<i>Off, Watermark, MD5, SHA-1, SHA-256</i>
Audio Std	<i>G.711, 8 kHz sampling rate</i>
Audio	<i>Two-way, Input / Output lines - 12 k Ohm input line 1V rms max, 1.5k Ohm output line</i>
Alarm	<i>Input / Output</i>
Ethernet	<i>10/100 Base-T, RJ 45</i>
Encryption	<i>TLS 1.2, SSL, Trusted Computing Technology</i>
Protocols	<i>IPv4, IPv6, UDP, TCP, HTTP, HTTPS, RTP/RTCP, IGMP V2/V3, ICMP, ICMPv6. RTSP, FTP, Telnet, ARP, DHCP, APIPA (Auto-IP, link local address), NTP (SNTP), SNMP (VI, MIB-II), 802.lx, DNS, DNSv6, DDNS (DynDNS.org, selfHOST.de, no- ip.com), SMTP, iSCSI, UPnP (SSDP), Diff Serv (QoS), LLDP, SOAP, Dropbox, CHAP, digest authentication</i>
Certifications	<i>IP66, MIL 810F</i>
Interoperability	<i>ONVIF, Profile S & G</i>

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