

# **Annex 5: CUBICLE AND TURNSTILE CAMERAS SPECIFICATIONS**

**Camera Technical Specifications** 

1 YPE: OMP NE I W Feature	ORK INDOOR DOME CAMERA-Cubicle cameras Minimum Specifications	Bidder Response
reature Brand	Mature internationally recognized brand, in existence for at	bidder Kesponse
Model/Technology	least 10 years (bidder must specify brand,	
Wiodel/Technology	model and series)	
Power	PoweroverEthernetIEEE802.3af/802.3at	
Connectors	RJ45 10BASE-T/100BASE-TX PoE	
Image Sensor	1/2.9" progressive scan CMOS	
Lens	Varifocal, IR corrected, CS-mount 3–10 mm, F1.3	
Focusing	Auto	
Light Sensitivity	Day Mode (Color image):0.24lux	
	■ B/W: 0.03lux	
	• With IR Mode: 0.01lux	
IR Range	30 meters	
WDR	120 dB	
Video	• Compression:	
	H.264,H.265MainProfile(MPEG-4Part	
	10/AVC),MotionJPEG	
	• <u>Resolution</u> :	
	3072 x 1728 (5 MP) to 320X240	
	Frame rate:	
	30 fps @ 5 MP	
	<ul><li><u>VideoStreaming</u>:</li></ul>	
	Multiple, individually configurable streams in	
	H.264andMotionJPEGControllableframe	
	rateandbandwidthVBR/MBRH.264	
	<ul><li><u>Image Settings</u>:</li></ul>	
	Compression, Color, Brightness, Sharpness, Contrast, White	
	balance, Exposure control, Exposure zones, Fine tuning of	
	behavior at lowlight, Text and image overlay, Privacy	
	mask,mirroringofimages,0°,180°rotation,	
Internal recording	60 s pre alarm recording	
Memory	Supports up to 32 GB micro SDHC	



ure	Minimum Specification	Bidder's Response
Audio line in	Must support	
Audio line out	Must support	
Operating	-20 °C to 50 °C with PoE	
Conditions		
Accessories	Proper mounting kit as will be determined on site	
<b>Intelligent Analytics</b>	Must support video analytics on the NVR side with the	
	following capabilities;	
	Object counting	
	Target cropping scheme	
	Object entering/leaving	
	Facial recognition	
	License Plate Recognition	
	Smart search with Thumbnails	
	Region entering/leaving	
	Object identification	
	Forensic search	
System Support	Onvif compliance	
<b>Supported Protocols</b>	802.1x, DNS, DNSv6, DDNS (DynDNS.org,	
	selfHOST.de, no-ip.com), SMTP, iSCSI, UPnP (SSDP),	
	DiffServ(QoS), LLDP,SOAP,Dropbox <sup>TM</sup> ,CHAP, digest	
	authentication	
Casing	Rating: IK10 impact resistant aluminum enclosure	
Warranty	3 Years	

## 24 PORT NETWORK SWITCH



ISO 9001:2015 CERTIFIED

C ID ' '	T ' ' 1 1 TT' 1 1 '' TT' 1 C	
General Descriptive	Enterprise standalone, High-density, High performance,	
Requirement:	Gigabit Ethernet switch. Layer 2 switching and basic	
	routing to be supported.	
	The switch MUST provide a seamless integration with	
	the existing KRA network	
Model and	Manufacturer/Brand	
Technology:	26.11	
	Model	
	Technical Data Sheet	
Network Ports:	Twenty four (24) Ports PoE+ Ethernet with 2 SFP and 1	
	RJ-45 Uplink interfaces.	
PoE+ capable ports:	All ports, with up to 30W per port	
Features:	Must support (IPv4 and IPv6) features, advanced quality	
	of service (QoS), rate limiting, Access Control Lists	
	(ACLs)	
Total PoE+ power	120W Minimum for 8 port switch	
Budget:	120 W Minimum for 6 port switch	
Power Source:	Dual power supply units, 240V, 50Hz	
Network Monitoring:	Compliant with IEEE SNMP standards. Capable of	
	monitoring the Network up to Node Level. Management	
	by a well-known and developed proprietary OS.	
Spanning Tree	Support for Spanning Tree Protocol Technology	
Protocol Technology:		
Security:	Port Level Security e.g. Port Filtering, Access Control	
	Lists, Policy based routing etc. Management by a	
	recognized proprietary operating system	
Compliance:	IEEE 802.1D STP, IEEE 802.1p CoS, Prioritization, IEEE	
	802.1Q VLAN, IEEE 802.1s, IEEE 802.1w, IEEE 802.1X,	
	IEEE 802.1ab LLDP, Bluetooth v4.0, IEEE 802.3ad,	
	IEEE 802.3af and IEEE 802.3at	
	IEEE 802.3ah (100BASE-X, single/multimode fiber	
	only), IEEE 802.3x full duplex on 10BASE-T, 100BASE-	
	TX, and 1000BASE-T ports, IEEE 802.3 10BASE-T,	
	IEEE 802.3u 100BASE-TX	
Authorized distributor:	Attach Manufacturer's Authorization Form	
End of life	The switch must not be a product that has/is reaching	
	end of life support and end of sale in two years' time	
Warranty:	3 years	



ISO 9001:2015 CERTIFIED

#### 1. Face Recognition Camera

TYPE: 6 MP Motorized Face Recognition PoE Network Camera with Digital Zoom		
Feature	Minimum Specification	Bidders
Brand Model/Technology Power	Mature internationally recognized brand, in existence for at least 10 years (bidder must specify brand, model and series)  Power over Ethernet IEEE802.3at DC12V/AC24C	Response
Connectors	terminal block  RJ45 10BASE-T/100BASE-TX/1000BASE-T  1/2.9-in. 6 MP Progressive-scan STARVIS™ CMOS	
Image Sensor Lens	Vari-focal	
WDR	120dB	
Resolution	6 MP (3072 x 2048), 3072 x 1728, 2592 x 1944 2688 x 1520, 2560 x 1440, 2304 x 1296, 1080p (1920 x 1080), SXGA (1280 x 1024, 1.3 MP (1280 x 960), 720p (1280 x 720), D1 (704 x 480), CIF (352 x 240)	
Angle of View	N64CG52 Horizontal: 98° Vertical: 67° N64CG53 Horizontal: 69°	
Day/Night	Automatically removable infrared-cut filter	
Minimum illumination	B/W o lux / Color o.1 lux @F1.8 1/15 sec	
Video	Compression: H.264, (MPEG-4 Part 10/AVC) Baseline, Main and High Profiles Motion JPEG Image Settings: Compression, Color, Brightness, Sharpness, Contrast, White balance, Exposure control, Exposure zones, Fine tuning of behavior at low light, Text and image overlay, Privacy mask, Capture alignment	
<b>Motion Detection</b>	Must support motion recording	
Vandal resistant	IK-10	
Memory	Must support SD card memory	
<b>Operating Conditions</b>	-40°C ~ 60°C (-40°F ~ 140°F)	
Application - Accessories	IP66 Rated Outdoor	



ISO 900	01:2015	CERTIFIED

Intelligent Analytics	Must support video analytics on the NVR side as follows; Object counting Target cropping scheme Object entering/leaving Facial recognition Smart search with Thumbnails Region entering/leaving Object identification Forensic Search	
System Support	Onvif compliance	
Supported Protocols	TCP/IP, UDP, ICMP, IPv4, IPv6, SNMP v2c/v3, QoS, HTTP, HTTPS, LDAP (client), SSH, SSL, SMTP, FTP, RTSP, UPnP, DNS, NTP, RTP, RTCP, DynDNS, Zero Configure	
Warranty	3 Years	

### 2. Bioreader Specifications

TECHNICAL SPECIFICATIONS FOR BIO READER		
Feature	Minimum Specification	Bidder Response
Brand Model/Technology	Mature internationally recognized brand, in existence for at least 10 years (bidder must specify brand, model and series)	
Biometric	Face Extractor/Matcher	
Live Face Detection	Supported	
RF Options	125 kHz EM. 13.56 MHz MIFARE. MIFARE Plus, DESFire/EV1, FeliCa, and NFC	
Template	SUPREMA	
Capacity	Maximum Users (One Face Enrollment per User): 30,000 (1:1), 3000 (1:N)  Maximum Faces per User: 5  Maximum Templates: 900,000 (1:1), 90,000 (1:N)  Maximum Text Logs: 5,000,000  Maximum Image Logs: 50,000	
CPU	1.4 GHz Quad-Core	
Memory	Flash: 8 GB RAM: 1 GB	
LCD Screen	4" / 101.6 mm TFT LCD	
	Resolution: 800 x 480	



#### ISO 9001:2015 CERTIFIED

Image Sensor	CMOS	
Camera Resolution	720 x 480	
Diagonal Field of View	Visual Lens: 92.7°	
(FOV)	IR Lens: 58°	
Sound	24-Bit Voice DSP (Echo Cancellation)	
Built-In Microphone	Yes	
Built-In Speaker	Yes	
Intercom	Supported	
Ethernet	1 x 1000M, Auto MDI/MDI-X	
RS-485	1-Channel Host or Slave (Selectable)	
Wiegand	1 x Input	
	1 x Output	
TTL	2 x Inputs	
Relay	1 x Relay	
USB	USB 2.0 (Host)	
Power	24 VDC	
Operating Temperature	-4 to 122°F / -20 to 50°C	
Operating Humidity	o to 80%, Non-Condensing	
Tamper Resistance	Yes	
Certificates	NDAA, CE, FCC, KC, RoHS, REACH,	
Moight	WEEE	
Weight	Device: 19.3 oz / 548 g Bracket: 2.6 oz / 74 g (Including Washer	
	and Bolt)	
Warranty	3 years	