

الشروط :

- . يجب ان يتوافق ال (NVR) مع الكاميرات المطلوبة مع امكانية زيادة 25% من اعداد الكاميرات على نفس الجهاز دون كلفة اضافية.
- . على الشركات تقديم نوع وبلد المنشأ لكافة بنود ومكونات العطاء.
- . توافق كافة مكونات النظام مع بعضها البعض تقع على مسؤولية الشركة.
- . يجب توريد Compliance Sheet لكل مكونات النظام مع بيان المخالفات إن وجدت.
- . على الشركة المتقدمة أن تعمل زيارة للموقع قبل تقديم العرض.
- . يجب توريد شهادات FCC او CE.
- . تقديم كفالة صيانة لمدة سنة واحدة على الاقل لجميع الأجهزة والمعدات.
- . توفير الصيانة والدعم الفني لجميع مكونات المشروع لمدة سنة واحدة من استلام اعمال العطاء.
- . تدريب موظفي قسم الشبكات على استخدام النظام والبرامج والمعدات والتوصيلات الخاصة بأنظمة الكاميرات.

المواصفات:

CCTV \ NVR Materials Specifications:

(1)

• **1.1 5MP Outdoor Fixed IP Camera (PoE):**

- max resolution: 2560 × 1920
- Min. Illumination
- Color: 0.005 Lux, B/W: 0 Lux with IR
- Fixed focal lens, 2.8mm, 4mm, or 6mm
- Up to 40 m Supplement Light Range
- Supports Smart Supplement Light
- Support three streams
- Video Compression: H.265/H.264/H.265+/H.264+
- API: Open Network Video Interface, ISAPI
- 120 dB Wide Dynamic Range (WDR)
- BLC, HLC, 3D DNR
- Supports Motion detection, video tampering alarm, exception
- Supports Line crossing detection, intrusion detection
- Temperature: -30 °C to 60 °C , Humidity: 95% or less
- password protection, privacy mask, watermark, IP address filter
- Protection: IP67
- 3-Years vendor warranty.

(2)

• **1.2 NVR**

- 16 Channels
- Adopt stream over TLS encryption technology
- Support multiple VCA (Video Content Analytics) events
- Outgoing bandwidth: 160 Mbps
- HDMI output: 4K (3840 × 2160)/60Hz
- Decoding format: H.265+/H.265/H.264+/H.264
- Recording Resolution: 32 MP/24 MP/12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA /4CIF/DCIF/2CIF/CIF/QCIF
- Synchronous playback: 16-ch
- Network interface: 1, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
- 2 SATA interfaces
- 4TB capacity for disk
- Front panel: 1 × USB 2.0; Rear panel: 1 × USB 2.0
- Working temperature: -10 °C to 55 °C
- Certification: FCC, CE

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• **1.3 Cabinet 9U**

- 9U 19" Network Rack Cabinet.
- Height: 9U (~400 mm).
- Width: 19" standard (~482.6 mm).
- Depth: 400–600 mm (adjustable per requirement).
- Color: Black or Dark Gray, Powder Coated.
- Material: Sturdy steel, shock resistant.
- Front Door: Tempered glass with lock.
- Rear Door: Perforated steel with lock.
- Ventilation: Front, rear, and side ventilation; built-in cooling fans.
- Cable Management: Internal cable routing, cable management brackets.
- Load Capacity: 30–50 kg internal (depending on manufacturer).
- Mounting: Standard 19" Rackmount.
- Accessories: Adjustable rails, PoE switch/DVR/NVR holders, mounting screws.
- Power Distribution: Built-in PDU (Power Distribution Unit) with multiple outlets.
- Security: Front and rear lockable doors.
- Application: Suitable for switches, DVR/NVR, small UPS, patch panels, and network/camera cable management.

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• **1.4 UPS :**

- 3 kVA Uninterruptible Power Supply (UPS).
- Capacity: 3 kVA / 2400 W.
- Input Voltage: 220–240 V AC, 50/60 Hz.
- Output Voltage: 220–240 V AC, 50/60 Hz.
- Topology: Online / Line Interactive (selectable).
- Battery Type: Sealed Lead Acid (SLA) or Lithium-ion (selectable).
- Battery Backup: Provides sufficient runtime to maintain operation during power interruptions.
- Recharge Time: 6–8 hours to 90% capacity.
- Surge Protection: Yes, for voltage spikes and transients.
- Overload Protection: Yes, automatic shutdown in case of overload.
- Short Circuit Protection: Yes.
- Display: LCD/LED display for input/output voltage, load, battery status, fault indicators.
- Communication: USB / RS-232 / SNMP (for monitoring).
- Operating Temperature: 0°C to 40°C.
- Installation: Rackmount 3U or Tower (flexible).
- Audible Alarm: Yes, for battery low, overload, and fault conditions.
- Application: Suitable for network devices, switches, DVR/NVR, servers, and other critical electronics.
- Proposed model should not be End of Sale or End of Life.

(5)

- **1.5 PoE Switch :**
- **Switch 16 port**
 - 16 × RJ-45 10/100/1000 Mbps PoE ports.
 - PoE Budget: Not less than 180 W.
 - Support: IEEE 802.3af / IEEE 802.3at.
 - Uplink Ports: 2 × Gigabit RJ-45 or SFP.
 - Switching Capacity: Not less than 32 Gbps.
 - Throughput (Mpps): Not less than 23 Mpps.
 - PoE Power per Port: Up to 30W.
 - Operating Temperature: 0°C to 40°C.
 - Modes: VLAN / CCTV / Extend Mode (up to 250m).
 - Protection: Surge protection, overload protection, short circuit protection.
 - Installation: Rack mountable or desktop.
 - Proposed model should not be End of Sale or End of Life

(6)

- **1.6 Outdoor Wireless Bridge:**
 - Wireless Standard: IEEE 802.11a/n (5GHz)
 - Max Wireless Speed: Up to 300 Mbps
 - Frequency Range: 5.1 – 5.8 GHz
 - Transmission Power: Adjustable up to 27 dBm
 - Antenna: Built-in directional antenna (≥ 13 dBi)
 - Max Transmission Distance: Up to 10–15 km (line of sight)
 - Channel Width: 20/40 MHz
 - Operation Modes: Access Point / Client / Bridge
 - Security: WPA/WPA2 Encryption
 - Management: Web-based management interface
 - Network Interface: 1 × 10/100 Mbps Ethernet Port (RJ-45)
 - Power Supply: Passive PoE support
 - Operating Temperature: -30°C to 70°C
 - Weatherproof Design for outdoor installation
 - Capable of transmitting multiple IP camera streams depending on bitrate and environmental conditions
 - Estimated Throughput: Supports up to 50–90 Mbps effective throughput under optimal conditions

(7)

- **1.7 Passive Specs**
 - Camera Points should include all the below and upon the following specs:
 - The needed cat6 cables with its installation
 - The needed cat6 jacks
 - Termination in two sides with labeling and fluke testing

- The needed pipes, or any needed accessories.
- Camera installation

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- **1.8 Cat6 UTP Cable:**

- 4 pairs
- Exceed all ANSI/TIA and ISO/IEC 11801 standards
- Confirms with RoHS
- Minimum copper rate for the cables 99%.
- 23 AWG
- Material of jacket: PVC
- Material of Conductor: Pure Annealed Copper
- Operating temperatures: - 20 to 60 °C.
- Warranty for 25 years.