

| Description (Minimum Specifications) | Brand: | Approx. Qty. |
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| <p>Supply & Installation of Face Recognition Camera complete in all respects with below features: -</p> <p>1/1.9" 2MP SONY CMOS, SONY CMOS Xmore, ICR, WDR (120dB), H.265+/H.265/H.264+/H.264,1080P(1~60fps), Zoom lens, White LED for Pitch Dark, Built in Light for Nigh Vision , Alarm, Audio, RS485, BNC, Micro SD, IP67, POE, Starlight, Video analysis feature supported, Deep learning face detection, Support face capture, face attributes,</p> | <p>International renowned Approved Brand Quantity can be increased or Decreased.</p> | <p>02</p> |
| <p>Supply & Installation of 4x2MP 180 Degree Multi-Sensor 8MP Panoramic Camera complete in all respects with below features:-</p> <p>8MP Panoramic, 2M*4 SONY CMOS, SONY CMOS Xmore, ICR, H.265+/H.265/H.264+/H.264, 4096*1800 (1~25fps), 3mm fixed lens, IR 30m, Alarm, Audio, Micro SD, IP67, IK10, Poe, Smart tracking supported.</p> | <p>International Approved Brand Quantity can be increased or Decreased.</p> | <p>01</p> |
| <p>Supply & Installation of ANPR Camera complete in all respects with below features: -</p> <p>2MP License Plate Recognition Camera for Pakistan Compatible LPR, Built-in White Light, Zoom Lens, Support OCR, Support plate cutout, overview picture snapshot and video recording, Built-in Weather Proof Housing and Complete accessories.</p> | <p>International Approved Brand Quantity can be increased or Decreased.</p> | <p>01</p> |
| <p>Supply & Installation of 4K Long Distance Bullet Camera complete in all respects with below features:</p> <p>8MP SONY CMOS, SONY CMOS Xmore ICR, WDR (120dB), H.265+/H.265/H.264+/H.264,8M(1~15fps) 2.7-12mm motorized lens, IR 50m, Alarm, Audio, Micro SD, IP67, IK10, Video Analytics, EPoE Supported</p> | <p>International Approved Brand Quantity can be increased or Decreased.</p> | <p>30</p> |
| <p>Supply & Installation of 4MP Dome Camera complete in all respects with below features:</p> <p>4Megapixel progressive scan, H.265triple-stream encoding, 4M(2688×1520), Smart Detection supported, WDR(120dB), Day/Night(ICR), 3DNR, AWB, cms AGC, BLC, Multiple network monitoring: Web viewer, , 2.8mm fixed lens 3.6mm,6mm optional, Built-in Mic, IR 50m, Micro SD, IP67, Poe.</p> | <p>International Approved Brand Quantity can be increased or Decreased.</p> | <p>40</p> |
| <p>Supply & Installation of 4K, 40X PTZ Camera complete in all respects with below features:</p> | <p>International Approved Brand</p> | <p>02</p> |

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| 4K Resolution, 40x optical zoom, Starlight, H.265, IVS, Auto-tracking, IR Distance up to 450m, ±25% wide voltage input, -40°C~70°C wide temperature range, IP67, Hi-POE, Smart wiper equipped with rain sensor, -30°~90° tilt range | Quantity can be increased or Decreased. | |
| Supply & Installation of 2 MP , 48X PTZ Camera complete in all respects with below features: 2MP 48x IR PTZ Network Camera, Powerful 48x optical zoom, Max. 50/60fps@1080P, Support Hi-Poe, IR distance up to 450m, IP67. | International Approved Brand Quantity can be increased or Decreased. | 01 |
| Video Tester 7.4 volt /22.2Wh polymer lithium ion battery function Or Equivalent. Dual LED flashlight IPS screen and flip keyboard with 45 keys; Support H.264 / H.265 High definition decoding protocol; Support IP, AHD/ TVI/ CVBS. Digital multi-meter, Support audio and RS485 control Support TDR network cable test and; Support Poe Plus , DC12V/2A power out; , which can last 8 hours for normal use. | International Approved Brand Quantity can be increased or Decreased. | 01 |
| Supply of Poles up to 10~12 feet including Civil work. | | 05 |
| Supply of Triangular Base Tower up to 25 feet including Civil work | | 01 |
| <i>Data Center & Monitoring / Control Room. 2 Ton AC with control Room, LED, Setting/Paneling, Dressing and other related Accessories.</i> | | 01 |
| Supply of Branded 7th Gen. PC for Live Monitoring and Alarm Management of CCTV Cameras. Intel 7th Gen Corei7 7700 – 3.60Ghz , 6MB Cache or Better ,4 GB Dedicated Nvidia Graphic Card or Better, 8GB DDR3 RAM , 1 TB HDD, Gigabit Ethernet, Keyboard, Mouse | International Approved Brand Quantity can be increased or Decreased. | 04 |
| Professional Face Recognition Access Control for | International | 01 |

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| <p>Centralized Control Room Or Equivalent.</p> <ul style="list-style-type: none"> • Face capacity : 1000 • Fingerprint capacity: 5000 • Card capacity: 5000 • Record capacity : 300,000 • Display : 2.8inch TFT • Camera : Double HD Infrared camera • Verify mode face, fingerprint, password, ID card • Communication : USB/U-disk/TCP/IP, Cloud(optional) • Voltage/current : DC9V~12V/1 A • Magnetic Lock | <p>Approved Brand Quantity can be increased or Decreased.</p> | |
| <p>42 U Rack For Control Room</p> | | <p>01</p> |
| <p>Vertiv LIEBERTY or Equivalent 6kVA, 0.8 PF Tower; Long Backup UPS with up to 2 Hrs Backup Time Battery Bank</p> <p>Included:</p> <ol style="list-style-type: none"> 1- On-line 6000VA\4800W LCD 230V Tower Long-Backup Model 2- External Battery Cabinet 32X40 AH(Black) Locally Designed & Assembled Cabinet 3- 20 Pcs of Matrix Dry Maintenance Free Battery 65.0 Ah, 12V, B13/66/21.5 4- UPS Battery Bank Installation Kit Including Interconnections, DC Breaker, Lugs. | <p>International Approved Brand Quantity can be increased or Decreased.</p> | <p>01</p> |
| <p>General Surveillance Management Center VMS.</p> <p>Easy Expansion Easy performance upgrade via distributed hardware extension. Easy function upgrade via add-ons. High Reliability Backup and restore database.</p> <p>Supports hot standby for master server. High Compatibility</p> <p>> Devices included: network camera, network speed dome, decoder, NVR, DVR, ANPR, IVS-F, IVS-T, etc.</p> <p>Connects third-party devices via standard ONVIF protocol.</p> <p>> SDK for third-party platform or mobile development.</p> | <p>International Approved Brand Quantity can be increased or Decreased.</p> | <p>01</p> |

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| <p>Central Management System Software with Video Analytics Support.</p> <p>.Alarm can be triggered via different events including IVS. Support e-map, you can clearly view and manage all device locations. PC-NVR enables local storage recording. Video wall configuration and control. Support VDP monitoring, talking, announcement and configuration. Account management supported; and different users share different privileges. Log for event and user activities. Friendly GUI for an easy operation. Support P2P devices. Support fisheye image correction in both live viewing and playback. Support IPC, PTZ, NVR, EVS, HCVR, NKB, VDP, Access Control and etc. Support 4K cameras. Support H.265/H.264 streams. Support IPv6 devices. Support Windows 10.Support Smart Track. Support multiple tour tasks. One channel can be split into different windows. Multiple channels can be previewed in channel zero. Auto find/import/export supported. Easy to manage up to 256 devices or 2000 channels. Up to36channelsynchronousplayback.Time bar and events playback modes available. Support joystick to control PTZ cameras. Support fisheye camera Virtual PTZ operation by mouse</p> | <p>International Approved Brand Quantity can be increased or Decreased.</p> | <p>01</p> |
| <p>Supply & Installation of 49 Inch 4K Industrial Grade LCD Monitor complete in all respects with below features: - 49” (16: 9) UHD LCD monitor, LED backlight, 3840×2160, 500cd/m2, 1100: 1 static contrast, 178/178 view angle, 8ms response time, 16.7M/8bit display color, CVBS/ DVI/VGA/2×HDMI/Audio inputs, Audio output</p> | <p>International Approved Brand Quantity can be increased or Decreased.</p> | <p>06</p> |
| <p>Supply & Installation of 4U Video Wall Controller with H.265 Decoding, 4CH HDMI Input Ports and 6CH HDMI Output Ports complete in all respects: 19” standard 4U ATCA industry box</p> <ul style="list-style-type: none"> • Multi-screen Controller • High speed passive rear panel design, reliable and stable • Easy and flexible configuration with pluggable card module design • 1024 IP input • 160ch@1080P or 640ch@D1 signal decoding (full configured) • 10 service card slots, every slot supports various service card | <p>International Approved Brand Quantity can be increased or Decreased.</p> | <p>01</p> |

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| <ul style="list-style-type: none"> • Redundant power optional and smart temperature controlled fan • FPGA array framework, built in ultrahigh bandwidth switch matrix, high image processing capacity, flexible data exchange • Intel X86 main control chip inside, ultrahigh data processing capacity and good extensibility • PCI-E bus, high system bandwidth Support analog/digital video signals input and matrix output • Support non-compressed digital signal encoding output • 2 RJ-45 gigabit network ports for matrix control, preview • Remote cast analog/digital video onto the video-wall • Remote reboot/upgrade/default setting and etc operations • Video Decoding Output • Interface 4ch HDMI1.4 • Split 1/4/9/16/32, free split • Decoding Capability • 2ch@12Mp (25fps)/4ch@4K/16ch @1080P/32ch@720P/64ch@D1, supporting H.265. • Resolution, 3840*2160@30fps, 1920*1080@60fps, 1280*1024@60fps, 1280*720@60fps, 1024*768@60fps. • Splicing Support video wall splicing (max 80 LCD display units) • Video-Wall Support Splicing Zoom/Merge/ | | |
| <p>Aluminum Back Bracket for Each Screen</p> | | 06 |
| <p>High Quality HDMI/DVI Cables for connection between LCD Display Unit and Controller and between NVR and Controller</p> | | 06 |

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| Installation Charges of Complete Display Systems | | 01 |
| Supply & Installation of 8 Port Ring Supported Gigabit Network POE Switch complete in all respects with below features: - Managed Ring Supported Gigabit POE Switch, 8x10/100/1000 Base-T, 2x1000 Base-X ; IEEE 802.3af/802.3at (Poe+), Power Budget 150 Watts | International Approved Brand Quantity can be increased or Decreased. | 04 |
| Supply & Installation of 16 Port Long-Range 800 Meters CAT-6 Cable Supported Network Switch for POE Cameras complete in all respects with below features: - Layer 2 Managed ePoE Switch, 2x1000 Combo; 16x10/100 Base-T(8 ePoE+8 PoE), Port1,2≤60W, Others≤30W, Total≤240W, IEEE802.3af, IEEE802.3at, Hi-Poe transmission Distance up to 800m via UTP | International Approved Brand Quantity can be increased or Decreased. | 12 |
| Supply & Installation of 24 Port Gigabit Layer 3 Managed Switch complete in all respects with below features: - High Performance Gigabit Control Room Switch, High Scalability, High Availability, 24 x 100/1000Base-X optical port (8 x Combo port), 4 x 10G BASE-X SFP+ optical port, 256 Gbit/s Switching Capacity, VLAN, Link Aggregation, IP Routing, Ring Supported, High End Security & Management Features | International Approved Brand Quantity can be increased or Decreased. | 01 |
| Supply & Installation of 24 Port Gigabit Aggregation Managed Switch complete in all respects with below features: - 24 Ports Gigabit Layer 2 Network Switch with 16 Dedicated Fiber Gigabit SFP Ports + 8 Gigabit Combo Ports (SFP Ports / Ethernet Ports) | International Approved Brand Quantity can be increased or Decreased. | 01 |
| Compatible SFP or Equivalent. | International Approved Brand Quantity can be increased or Decreased. | 40 |
| Supply of Weatherproof DBS Minimum 4U Rack with built in environmental protection equipment for Switch, ODF and UPS. | | 16 |
| Supply of CAT-6 Network Cable in PVC Pipe/Duct / Conduit including the RJ-45 Connectors | International Approved Brand Quantity can be increased or Decreased. | 5000 Meter |
| Supply of High Quality 12 Core Fiber Optic Cable in PVC Pipe/Duct along with Installation. | | 2000 Meter |
| Supply of Electric Cable 70/76 3 Core in PVC Pipe / Duct Conduit including Labor | | 2200 Meter |

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| Supply of High Quality Rack Mount Full Loaded ODF | | 16 |
| Supply & Installation of High Quality Control Room Full Loaded ODF | | 02 |
| Supply of High Quality Fiber Optic Pig tails | | 50 |
| Supply & Installation of High Quality Patch Cords | | 40 |
| Civil Work, Digging, Back Filling, Road Cutting, Boring and complete in all aspects | | 200 Meter |
| High Density HD Pipe/PVC for Undergrounding cable protection. | | 200 Meter |
| Supply & Installation of 128 Channel Intelligent NVR complete in all respects with below features: 128CH Full HD NVR, 400Mbps input, 20ch 1080P decoding, H.265 & H.264, 8 HDD Slots, 2 VGA & 3 HDMI Monitor Output, 4 RJ45(1000M), 4 USB(2USB3.0), RAID0/1/5/6/10 Supported, Support Intelligent Features, Show Face Detection and License Plate Results Directly. | International Approved Brand Quantity can be increased or Decreased. | 01 |
| Supply & Installation of Face Recognition Server complete in all respects with below features: Face Recognition Server Machine, support up to 10 Face Recognition Cameras, 400Mbps input, 20ch 1080P decoding, max 128 IPC input, H.265 & H.264, 8 HDD Slots, 2 VGA & 3 HDMI Monitor Output, 4 RJ45(1000M), 4 USB(2USB3.0), RAID0/1/5/6/10 Supported, Back end face recognition/Search by image/face library management, Regular/stranger mode, Up to 10 Channel picture stream face recognition and 4 Channel Video Stream Face Recognition | International Approved Brand Quantity can be increased or Decreased. | 01 |
| 6 TB Enterprise Level/ Grade Storage for NVR. | International Approved Brand Quantity can be increased or Decreased. | 10 |
| SURVEILLANCE AUDIO MIC Metal shell, surface is through plating processing Omni directional MIC. 5~100 m 2mic pickup range with Sensitivity of -24± 3dB Frequency Response 20Hz~20kHz Max. Sustainable Sound Pressure 110dBSPL (1kHz, THD 1%) Ambient noise cancellation (ANC) technology Output Impedance 100Ω (non- | International Approved Brand Quantity can be increased or Decreased. | 10 |

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| equilibrium) Waterproof and dustproof level are IP66. | | |
| Complete Installation, testing, configuration | | 01 job |
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