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NENU SAITHAM



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NENU SAITHAM-CCTV PROJECT

TECHNICAL SPECIFICATIONS

Version: 1.0

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Minimum IP based Outdoor HD Camera Specifications or Better

Minimum 1/3" progressive CMOS; 1920x1080p (2 megapixel); fixed Lens,; built-in IR illuminators, IR cut filter for day & night function; min. illumination; H.264/MPEG video compression; min. 25 fps @ full HD mode; Support CBR/VBR; DWDR; BLC, HLC, white balance (optional); date-time stamp; Standard Network Protocol and Security Support; ONVIF supported & specifications available at www.onvif.org

Minimum PoE Network Switch Specifications or Better

4 or 8-Port POE gigabit copper ports with link speed support of 10/100 Mbps Ethernet ports with min. 1 Gbps switching capacity; Support IEEE 802.3xx standards; Standard Network Protocol & Security Support; Standard Power budget support;

Minimum Network Video Recorder (NVR) Specifications or Better

4 or 8 Channel NVR with embedded linux; Support 3 MP & lower resolution, Support H.264 & MJPEG video recording, Min. 1 SATA bay with Surveillance HDD, fixed/variable record mode; Standard Live View & Playback support functions, playback search functions, Events/Alarm Notification Functions, Standard I/O ports & User Interface Support, Standard Network Protocol & Security support; Standard Power Budget & Consumption requirements; Standard Certification & Compliance; ONVIF specifications available at www.onvif.org

Refer more technical details at www.hyderabadpolice.gov.in

1. IP BASED OUTDOOR FULL-HD FIXED BULLET DAY/NIGHT CAMERA

Parameter	Minimum Specifications
Image Sensor	1/3" Progress scan CMOS sensor in 1920 x 1080 resolution (2 mega pixel)
Lens	Fixed Lens; f = between 3.6 & 12 mm – any fixed value between this range based on site requirements; Digital Zoom – Min. 10x
Video Resolution / Frame Rate	Dual Stream – First Stream 1080p (2 MP resolution); 2 nd stream–Min 720p (1.3mp); Configurable up to 30 fps;
Shutter Time	1/5s to 1/10,000s
Min. illumination	0.05Lux (Colour) & 0.01 Lux (B/W)
IR Illuminators	Built-in IR illuminators, min. 10 meters; IR cut-filter for day/night function
Codec Compression	H.264; MJPEG;
Image Features	Configurable image size, quality, frame rate, CBR / VBR; Configurable xWDR, HLC, BLC, White balance
Device Interface	10/100 BASE-TX Ethernet port
Power	12V DC & PoE (802.3af)
Network Protocols & Security	Ethernet 1 RJ-45 port (1000M); Network Function HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, IP Search(Support IP camera, DVR, NVS and etc.); Support Multicast; HTTP & RTSP authentication; HTTPS encryption support; Admin & User group protection support
Event & Remote Management	Motion Detection; Event & Alerts notifications and uploading of snap-shots via e-mail; Configurable interface accessible via web
Housing & Accessories	As per camera make standards
Temperature	Operating Temperature : - 10°C to +50°C; Storage Temperature : - 10°C to +70°C; Humidity: 95% or less (non-condensing)
Compliant / Certification	CE, FCC, EMC & ROHS and UL certification ONVIF Compliant and Certified at www.onvif.org

4/8-PORT UNMANAGED POE NETWORK SWITCH SPECIFICATIONS

Parameter	Minimum Specifications
Network Ports	4 or 8 port switch (based on the site requirement);
Port Configuration	4x10/100Base-TX Ethernet ports (PoE Ports) and 1x10/100Base-TX up-link port 8x10/100Base-TX Ethernet ports (PoE Ports) and 1x10/100Base-TX up-link port
Network Standards	Min. IEEE 802.3/802.3u/802.3x/802.3z Support
POE / POE Standards	IEEE 802.3af / 802.3at
Switching Capacity	1 Gbps for 4-port; 1.8 Gbps for 8-port
Network Interface / Cable	RJ-45 Connector to 10Base-T, 100Base-TX, or 1000Base-T Category 5, 6 or better
Transmission Method	Store-and-forward
MAC Address table	Min. 1000K entries per device
POE+Power Budget	Min. 60W for 4-port; Min. 120W for 8-port
Power Consumption	< 5 W
Power Source	Min. 48 V
Network Protocols & Security	Ethernet 1 RJ-45 port (1000M); Network Function HTTP, TCP/IP, IPv4/IPv6, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarm Server, IP Search(Support IP camera, DVR, NVS and etc.); Support Multicast; HTTP & RTSP authentication; HTTPS encryption support; Admin & User group protection support
Temperature	Operating 0 to 50°C
Compliance	CE, FCC, RoHS

4/8-CHANNEL NETWORK VIDEO RECORDER (NVR) SPECIFICATIONS

Parameter	Minimum Specifications
Device Input	4-Channel or 8-Channel (based on site requirements)
Processor	Dual-core embedded processor with embedded Linux; Min. 512 DDR RAM (based on site requirement)
Compression Support	H.264 / MJPEG
Video Resolution	1920x1080, 1280x1024, 1280x720
SATA Bays	Min. 1 bay (based on site requirement)
Storage Capacity	Surveillance HDD – Min. 2 TB (based on site requirement)
I/O ports	Min. 1 x RJ45, 2x2.0 USB Host, 1xHDMI support resolution - 1920x1080 & lower (optional), 1 RS232 port for PC & Keyboard - based on site requirement
Network Interface	RJ-45 10/100M (based on site requirement)
Power Supply	DC 12V
User Interface	HTTP Web browser, HDMI/VGA Local display, Multiple Language GUI Support
Event / Alarm Management	Events – Motion Detection, Video loss, Disk space full Alarm – Through Email
Network Protocols & Security	1 RJ-45 Ethernet giga port network interface, graphic user interface, 802.3at POE ports, network protocols-HTTP, TCP/IP, IPv4/IPv6, RTSP, SMTP, FTP, DHCP, IP Filter, PPPoE, DDNS, DNS, IP search etc., 2 USB ports (v2,v3),
Temperature	Operating 0 to 50°C Humidity – 0 to 90% RH
Video & Audio Recording	Fixed / Variable record mode, Synchronized video & audio recording in a H.264 / MJPEG compression; Record by schedule, manual, and event-based recording; Configurable Resolution, quality, frame rate, enable audio; Auto recycling when disk storage is full
Live View Support	HDMI, VGA, browser Live view controls – preset/go, focus, snapshot, full screen, digital zoom etc.,
Playback Support	HDMI, VGA, browser Playback controls – Normal, fast forward/rewind, step fast forward/rewind, Digital Zoom, playback search functions,
Temperature	0 to 50°C
Compliance	CE, FCC, RoHS, ONVIF Compliant & Certified at www.onvif.org