



গুসকরা মহাবিদ্যালয়

পোঃ গুসকরা, জেলা – পূর্ব বর্ধমান

তারিখঃ ১২.০৬.২০২৫

বিজ্ঞপ্তি

গুসকরা মহাবিদ্যালয়ের CCTV ক্রয় ও প্রতিস্থাপনের জন্য E-Tender -এ টেন্ডার করা হয়েছে। E-Tender জমা দেওয়ার শেষ তারিখ ২৫.০৬.২০২৫। E-tender website: www.wbtenders.gov.in

Tender ID: 2025_DHE_862776



অধ্যক্ষ

গুসকরা মহাবিদ্যালয়
Principal
Gushkara Mahavidyalaya

32 CHANEL NVR

KEY FEATURE - Up to 32-ch IP camera inputs H.265+/H.265/H.264+/H.264 video formats, Up to 2-ch@12 MP or 3-ch@8 MP or 6-ch@4 MP or 12-ch@1080p decoding capacity Up to 256 Mbps incoming bandwidth Adopt Acusense technology to minimize manual effort and security costs.

SMART FUNCTION - All channels support Motion Detection 2.0, 2-ch video analysis for human and vehicle recognition to reduce false alarm 1-ch facial recognition for video stream or 4-ch facial recognition for face picture Smart search for the selected area in the video and smart playback to improve the playback efficiency Professional and Reliability H.265+ compression effectively reduces the storage space by up to 75%. Adopt stream over TLS encryption technology which provides more secure stream transmission service HD Video Output Provide independent HDMI and VGA outputs, HDMI video output at up to 4K resolution Storage and Playback Up to 2 SATA interfaces for HDD connection (up to 10 TB capacity per HDD) 16-ch synchronous playback Network & Ethernet Access 1 self-adaptive 10/100/1000 Mbps Ethernet interface. Easy network management.

SPECIFICATION- Intelligent Analytics AI by Device Facial recognition, perimeter protection, motion detection 2.0 AI by Camera Facial recognition, perimeter protection, throwing objects from building, motion detection 2.0, ANPR, VCA Facial Recognition Facial Detection and Analytics Face picture comparison, human face capture, face picture search Face Picture Library Up to 16 face picture libraries, with up to 20,000 face pictures in total (each picture ≤ 4 MB, total capacity ≤ 1 GB) Facial Detection and Analytics Performance 1-ch, 8 MP Face Picture Comparison 4-ch Motion Detection 2.0 By Device All channels, 4 MP (when enhanced SVC mode is enabled, up to 8 MP) video analysis for human and vehicle recognition to reduce false alarm By Camera All channels Perimeter Protection By Device 2-ch, 4 MP (HD network camera, H.264/H.265) video analysis for human and vehicle recognition to reduce false alarm By Camera All channels Video and Audio IP Video Input 32-ch Incoming Bandwidth 256 Mbps Outgoing Bandwidth 160 Mbps HDMI Output 1-ch, 4K (3840 × 2160)/30 Hz, 2K (2560 × 1440)/60 Hz, 1920 × 1080/60 Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz VGA Output 1-ch, 1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz Video Output Mode HDMI/VGA independent output CVBS Output N/A Audio Output 1-ch, RCA (2.0 Vp-p, 1 KΩ, using the audio input) Two-Way Audio 1-ch, RCA (Linear, 1 KΩ) Decoding Format H.265/H.265+/H.264+/H.264 Recording Resolution 12 MP/8 MP/6 MP/5 MP/4 MP/3 MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF

DECODING CAPABILITY- AI on: 1-ch@12 MP (30 fps)/2-ch@8 MP (30 fps)/4-ch@4 MP (30 fps)/8-ch@1080p (30 fps) AI off: 2-ch@12 MP (30 fps)/3-ch@8 MP (30 fps)/6-ch@4 MP (30 fps)/12-ch@1080p (30 fps) Stream Type Video, Video & Audio, Audio Compression G.711ulaw/G.711alaw/G.722/G.726/AAC Network Remote Connection 128 API ONVIF (profile S/G); SDK; ISAPI Compatible Browser IE11, Chrome V57, Firefox V52, Safari V12, Edge V89, or above version.

NETWORK PROTOCOL- TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SADP, SMTP, SNMP, NFS, iSCSI, ISUP, UPnP™, HTTP, HTTPS Network Interface 1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface.

AUXILIARY INTERFACE -SATA 2 SATA interfaces Capacity Up to 10 TB capacity for each HDD USB Interface Front panel: 1 × USB 2.0; Rear panel: 1 × USB 2.0 Alarm In/Out 4/1 General GUI.

LANGUAGE - English,

POWER SUPPLY -12 VDC, 3.3 A Consumption ≤ 15 W (without HDD)

WORKING TEMPERATURE -10 °C to 55 °C (14 °F to 131 °F) Working Humidity 10% to 90%

DIMENSION- (W × D × H) 385 mm × 315 mm × 52 mm (15.2" × 12.4" × 2.0") Weight ≤ 1 kg (without HDD, 2.2 lb.)

CERTIFICATION- FCC Part 15 Subpart B, ANSI C63.4-2014 CE EN 55032: 2015, EN 61000-3-2, EN 61000-3-3, EN 50130-4, EN 55035: 2017

OBTAINED CERTIFICATION- CE, FCC, IC, CB, KC, UL, Rohs, Reach, WEEE, RCM, UKCA, LOA, BIS

2MP CAMERA

2 MP Fixed Turret Network Camera

High quality imaging with 2 MP resolution

Efficient H.265+ compression technology

Clear imaging against strong back light due to DWDR technology

Water and dust resistant (IP67)

EXIR 2.0: advanced infrared technology with long IR range

Image Sensor 1/2.7" Progressive Scan CMOS Max. Resolution 1920 × 1080 Min. Illumination Colour: 0.01 lx @ (F2.0, AGC ON), B/W: 0 Lux with IR, Shutter Time 1/3 s to 1/100,000 s, Day & Night IR cut filter Angle Adjustment Pan: 0° to 360°, tilt: 0° to 75°, rotate: 0° to 360°

LENS

Focal Length & FOV 2.8 mm, horizontal FOV 105°, vertical FOV 58°, diagonal FOV 123°, 4 mm horizontal FOV 81°, vertical FOV 43°, diagonal FOV 97° Lens Mount M12 Iris Type Fixed Aperture F 2.0

Illuminator

Supplement Light Type IR, Supplement Light Range Up to 30 m, Smart Supplement Light-Yes, IR Wavelength 850 nm

Video

MAIN STREAM

50 Hz: 25 fps (1920 × 1080, 1280 × 720)

60 Hz: 30 fps (1920 × 1080, 1280 × 720)

Sub-Stream

50 Hz: 25 fps (640 × 480, 640 × 360)

60 Hz: 30 fps (640 × 480, 640 × 360)

VIDEO COMPRESSION

Main Stream: H.265/H.264/H.264+/H.265+

Sub-Stream: H.265/H.264/MJPEG

Video Bit Rate 32 Kbps to 8 Mbps

H.264 Type Baseline Profile/Main Profile/High Profile H.265 Type Main Profile

Region of Interest (ROI) 1 fixed region for main stream

NETWORK

Protocols TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, QoS, IPv6, Bonjour, IPv4, UDP, SSL/TLS

Simultaneous Live View Up to 6 channels

API Open Network Video Interface, ISAPI

User/Host Up to 32 users. 3 levels: administrator, operator and user

ClientiVMS-4200

Web Browser

Plug-in required live view: IE 10+

Plug-in free live view: Chrome 57.0+, Firefox 52.0+

Local service: Chrome 57.0+, Firefox 52.0+

Image

Image Settings Saturation, brightness, contrast, sharpness, AGC, white balance adjustable by client software or web browser.

Day/Night Switch Day, Night, Auto, Schedule

Wide Dynamic Range (WDR) Digital WDR

SNR $\geq$ 52 dB

Image Enhancement BLC, 3D DNR

Interface

Ethernet Interface1 RJ45 10 M/100 M self-adaptive Ethernet port

Event

Basic Event Motion detection, video tampering alarm, exception

Linkage Upload to FTP, notify surveillance centre, send email

General

Power

12 VDC $\pm$ 25%, 0.4 A, max. 5 W, Ø5.5 mm coaxial power plug

POE: (802.3af, Class 3, 36 V to 57 V), 0.2 A to 0.15 A, max. 6.5 W

DimensionØ110 mm $\times$ 85.3 mm (Ø4.3" $\times$ 3.4")

Package Dimension150 mm $\times$ 150 mm $\times$ 141 mm (5.9" $\times$ 5.9" $\times$ 5.6")

Weight Approx. 320 g (0.7 lb.)

With Package Weight Approx. 556 g (1.2 lb.)

Storage Conditions-30 °C to 60 °C (-22 °F to 140 °F). Humidity: 95% or less (non-condensing)

Start-up and Operating Conditions-30 °C to 60 °C (-22 °F to 140 °F). Humidity: 95% or less (non-condensing)

Language English

General Function Anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter

Approval

EMCFCC SDoC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 + A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC VoC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)

Safety UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015)

Environment CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)

Protection IP67 (IEC 60529-2013)

2 MP Fixed Bullet Network Camera

- High quality imaging with 2 MP resolution
- Efficient H.265+ compression technology
- Clear imaging against strong back light due to DWDR technology
- Water and dust resistant (IP67)
- EXIR 2.0: advanced infrared technology with long IR range

- Image Sensor 1/2.7" Progressive Scan CMOS
- Max. Resolution 1920 × 1080
- Min. Illumination Colour: 0.01 Lux @(F2.0, AGC ON), B/W: 0 Lux with IR
- Shutter Time 1/3 s to 1/100,000 s
- Day & Night IR cut filter
- Angle Adjustment Pan: 0° to 360°, tilt: 0° to 180°, rotate: 0° to 360°

Lens

- Focal Length & FOV
2.8 mm, horizontal FOV 112.1°, vertical FOV 60.0°, diagonal FOV 132.2°
4 mm, horizontal FOV 90.2°, vertical FOV 48.6°, diagonal FOV 107.6°
- Lens Mount M12
- Iris Type Fixed
- Aperture F2.0

Illuminator

- Supplement Light Type IR
- Supplement Light Range Up to 30 m
- Smart Supplement Light Yes
- IR Wavelength 850 nm

Video

- Main Stream
50 Hz: 25 fps (1920 × 1080, 1280 × 720)
60 Hz: 30 fps (1920 × 1080, 1280 × 720)
- Sub-Stream
50 Hz: 25 fps (640 × 480, 640 × 360)
60 Hz: 30 fps (640 × 480, 640 × 360)
- Video Compression
Main Stream: H.265/H.264/H.264+/H.265+
Sub-Stream: H.265/H.264/MJPEG

- Video Bit Rate 32 Kbps to 8 Mbps
- H.264 Type Baseline Profile/Main Profile/High Profile
- H.265 Type Main Profile
- Region of Interest (ROI) 1 fixed region for main stream

Network

- Protocols TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, QoS, IPv6, Bonjour, IPv4, UDP, SSL/TLS
- Simultaneous Live View Up to 6 channels
- API Open Network Video Interface, ISAPI
- User/Host Up to 32 users. 3 levels: administrator, operator and user
- Web Browser
Plug-in required live view: IE 10+
Plug-in free live view: Chrome 57.0+, Firefox 52.0+
Local service: Chrome 57.0+, Firefox 52.0+

Image

- Image Settings Saturation, brightness, contrast, sharpness, AGC, white balance adjustable by client software or web browser.
- Day/Night Switch Day, Night, Auto, Schedule
- Wide Dynamic Range (WDR) Digital WDR
- SNR $\geq$ 52 dB
- Image Enhancement BLC, 3D DNR

Interface

- Ethernet Interface 1 RJ45 10 M/100 M self-adaptive Ethernet port

Event

- Basic Event Motion detection, video tampering alarm, exception
- Linkage Upload to FTP, notify surveillance centre, send email

General

- Power
12 VDC $\pm$ 25%, 0.4 A, max. 5 W, Ø5.5 mm coaxial power plug
PoE: 802.3af, Class 3, 36 V to 57 V, 0.2 A to 0.15 A, max. 6.5 W
- Dimension 177.6 mm $\times$ 66.2 mm $\times$ 67.8 mm (7.0" $\times$ 2.6" $\times$ 2.7")
- Package Dimension 216 mm $\times$ 121 mm $\times$ 118 mm (8.5" $\times$ 4.8" $\times$ 4.6")
- Weight Approx. 270 g (0.6 lb.)
- With Package Weight Approx. 490 g (1.1 lb.)
- Storage Conditions -30 °C to 60 °C (-22 °F to 140 °F). Humidity: 95% or less (non-condensing)

- Start-up and Operating Conditions-30 °C to 60 °C (-22 °F to 140 °F). Humidity: 95% or less (non-condensing)
- Language English,
- General Function Anti-flicker, heartbeat, mirror, password protection, privacy mask, watermark, IP address filter

Approval

- EMCFCC SDoC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC VoC (ICES-003: Issue 6, 2016); KC (KN 32: 2015, KN 35: 2015)
- Safety UL (UL 60950-1); CB (IEC 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); CE-LVD (EN 60950-1:2005 + Am 1:2009 + Am 2:2013, IEC 62368-1:2014); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015)
- Environment CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
- Protection IP67 (IEC 60529-2013)

2 MP ColorVu Fixed Bullet Network Camera

- Image Sensor 1/2.8" Progressive Scan CMOS
- Max. Resolution 1920 × 1080
- Min. Illumination Color : 0.001 Lux @ (F1.0, AGC ON)
- Shutter Time 1/3 s to 1/100,000 s
- Angle Adjustment Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°

Lens

- Focal Length & FOV
2.8mm, horizontal FOV 107°, vertical FOV 56°, diagonal FOV 127°
4mm, horizontal FOV 84°, vertical FOV 45°, diagonal FOV 99°
- Lens Mount M12
- Iris Type Fixed
- Aperture F1.0
- Depth of Field
2.8 mm: 1.7 m to ∞
4 mm: 2.1 m to ∞
- Lens Type Fixed focal lens, 2.8 and 4 mm optional

Illuminator

- Supplement Light Type White Light
- Supplement Light Range Up to 30 m
- Smart Supplement Light Yes

Video

- Main Stream
50 Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720)
60 Hz: 30fps (1920 × 1080, 1280 × 960, 1280 × 720)
- Sub-Stream
50 Hz: 25fps (640 × 480, 640 × 360, 320 × 240)
60 Hz: 30fps (640 × 480, 640 × 360, 320 × 240)
- Video Compression
Main stream: H.265+/H.265/H.264+/H.264
Sub-stream: H.265/H.264/MJPEG
- Video Bit Rate 32 Kbps to 8 Mbps
- H.264 Type BaseLine Profile/Main Profile/High Profile
- H.265 Type Main Profile
- Region of Interest (ROI) 1 fixed region for main stream
- **Network**
- Protocols TCP/IP, ICMP, HTTP, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, QoS, IPv6, UDP, Bonjour, SSL/TLS

8 Port Fast Ethernet Unmanaged POE Switch

- 8 × 10/100 Mbps PoE port, and 2 × Gigabit RJ45 port.
- IEEE 802.3at/af standard for PoE ports (Max. 60 W PoE output).
- IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z and IEEE 802.3ab standard.
- 6 KV surge protection for PoE ports.
- Up to 300 m long-range transmission.
- Wire-speed forwarding.
- Store-and-forward switching.
- Solid high-strength metal shell.
- Reliable fan-free design.

General

- Shell Metal material
- Net Weight 0.555 kg (1.22 lb)
- Gross Weight 1.20 kg (2.65 lb)
- Dimensions (W × H × D) 217.6 mm × 103.35 mm × 27.8 mm (8.57" × 4.07" × 1.09")
- Operating Temperature 0 °C to 40 °C (32 °F to 104 °F)
- Storage Temperature -40 °C to 85 °C (-40 °F to 185 °F)
- Operating Humidity 5% to 95% (no condensation)
- Relative Humidity 5% to 95% (no condensation)
- Power Supply 48 VDC, 1.35 A
- Max. Power Consumption 65 W
- Power Consumption in Idle 5 W

- Installation Mode Desk-Mounted, Wall-Mounted
- Surge Protection 6 KV

Network Parameters

- Ports 8 × 10/100 Mbps PoE port, 2 × Gigabit RJ45 port
- MAC Address Table 8 K
- Switching Capacity 5.6 Gbps
- Packet Forwarding Rate 4.17 Mpps
- Internal Cache 4 Mbits

PoE Power Supply

- PoE Standard IEEE 802.3af; IEEE 802.3at
- PoE Power Pin 8-pin power: 1/2(-), 3/6(+), 4/5(+), 7/8(-)
- PoE Port PoE: Ports 1 to 8
- Max. Port Power 30 W
- PoE Power Budget 60 W

Dialling Function

- Long Range
Ports 1 to 8 : up to 300 m.
Long range performance may vary depend on camera model or cable condition.

Approval

- EMC FCC (47 CFR Part 15, Subpart B), CE-EMC (EN 55032: 2015+A11: 2020, EN IEC 61000-3-2: 2019, EN 61000-3-3: 2013+A1: 2019, EN 50130-4: 2011+A1: 2014, EN 55035: 2017+A11: 2020), IC (ICES-003: Issue 7:2020), RCM (AS/NZS CISPR 32: 2015)
- Safety UL (UL 60950-1), CB (AMD1:2009, AMD2:2013, IEC 62368-1: 2014 (Second Edition), CE-LVD (EN 62368-1: 2014+A11: 2017)
- Chemistry
CE-RoHS (2011/65/EU);
WEEE (2012/19/EU);
Reach (Regulation (EC) No. 1907/2006)

CAT6 UTP

CAT6 UTP 23AWG Solid: 305M

CAT6 UTP Cable supports Gigabit Ethernet (1000 Base-T) standard. Operates at a bandwidth up to 250 Mhz. This cable well exceeds the requirements of TIA/EIA-568.C.2 Category 6 ISO/IEC Class E

Features

- Comply with Cat6 specifications
- 4-pair unshielded twisted pair (UTP) cable
- Pairs are braided in aluminium foil with drain wire

- 23 AWG solid copper conductor for superior conductivity
- HDPE insulation
- FR PVC Jacket
- Verified compliant with EIA/TIA standards by ETL
- UL-listed
- Packaged in an easy-to-pull box for easier installation

Specifications

- **Category** : 6 UTP Solid cable
- **Conductor** : Conductor : 23 AWG (Solid)
- **Conductor Meta** : Conductor Meta : Bare Copper
- **Insulation Material** : HD-PE
- **OD** : 6.1mm ±0.2
- **Resistance Unbalance** : 5% Max
- **Capacitance Unbalance** : 330pF/100m
- **Delay Skew** : <45nS

Surveillance Hard Drive - 6TB

Specifications

Capacity	6TB
Form Factor	3.5-Inch
Connector	SATA
Interface	SATA
Transfer Rate	up to 175MB/s

Disk Speed (RPM)

Recording Technology	CMR
Cache Size	256MB
Warranty	3-Year Limited Warranty
Dimensions (L x W x H)	147mm x 101.6mm x 26.1mm
Weight	570gms
Model Number	WD64PURZ
Operating Temperature	0°C to 65°C
Non-Operating Temperature	-40°C to 70°C
Certifications	BSMI, ICES-003/NMB-003, CE, FCC, KC, Maghreb, RCM, UKCA, VCCI, CB-Scheme, TUV, UL

Product Features

- Engineered for mainstream surveillance systems
- WD All Frame technology delivers optimizations for write-intensive, low bit-rate, high stream-count workloads typical to mainstream surveillance applications
- Supports up to 180TB/yr workload rate and up to 16 bays

Compatibility

- Up to 64 HD cameras
- Up to 16 drive bays
- All Frame firmware technology