



Excellence | Service | Leadership and Good Governance | Innovation | Social Responsibility | Integrity | Professionalism | Spirituality

 Project:
 RENOVATION AND RECONFIGURATION OF COMPUTER LABORATORY ROOM IN CCSIT BUILDING WITH PROVISIONS FOR SMART CLASSROOM

 Location:
 SLSU-MAIN, SOGOD CAMPUS, SOGOD, SOUTHERN LEYTE

Subject: SCOPE OF WORK/ MATERIAL SPECIFICATION/ WORKMANSHIP

ABC: 3,800,000.00

The Contractor shall furnish labor, tools, equipment, PPE, and supervision to perform satisfactorily all the required works for the project. The work shall include but is not limited to mobilization, demobilization, masonry works, plastering and housekeeping.

A. MATERIAL SPECIFICATIONS

A.01 GENERAL	REQUI	REMENTS	
Temporary Facility:	-	Located at strategic site nearby the project	
Protection Fences:		Hand Hat Durbation Classes (Class during wight works). Cafeta Chang	
PPE:		Hard Hat, Protection Glasses (Clear Glass during night works), Safety Shoes	
As-Built Plans: 1 original + 3 copies A.02 CEILING AND PARTITION WORKS			
A.02 CEILING A Ceiling:	- -	Use Use 0.60m x 0.60m x 1/4" thk. Acoustic Board	
Framing (Ceiling):	_	Use T-runner 0.6mm x 3.6m and Wall Angle 1" x 1" x 4mm x 8'	
False Wall:	-	Use 6mm Fiber Cement Board.	
Framing (False Wall):	-	Use Metal Studs, 35mm x 75mm x 0.5mm x 3m spaced @ 0.40m from center.	
A.03 DOORS AND WINDOWS			
Single-Swing Glass Doors:	-	Use 1/2" thk. Tempered Glass.	
w/ Fixed Glass			
Door Access Solution			
Package:			
Attendance Door Entry	-	Model Number : SC700	
System:		Product Name :RFID Card Door Access Control Time Clock Attendance Entrance System	
		Material: Plastic	
		Card Capacity: 30,000	
		Transaction Capacity: 50,000	
		Communication: TCP/IP, USB Host	
		RF Card: IN ID(standard), MF(optional)	
		Access Control Interface for 3rd party electric lock, door sensor, exit button, alarm,	
		Door Bell	
		Wiegand Signal: Output and Input	
		Software: ZKACCESS3.5	
Electric Frameless	-	Shear strength: 2000Lbs/1000kg	
Glass Door Lock:		Lock Status instructions: LED Display	
		Door Status Sensors: Dry contact NO,NC,COM	
		Relock Delay Timer: 0/ 2.5 /5 seconds available to set	
		Optional Functions: Lock Status Sensors ,Buzzer	
		Rated Operating Voltage DC 12V or 24V Start Current: 900mA, Standby Current:250mA	
		Face place material: High Aluminum	
		Face Plate Dimensions: 170Lx49WX43H(mm)	
		Strike Plate Dimensions: 170Lx48Wx40H(mm)	
		Weight in kg: 0.9kg	
Door Access Centralized	-	Open Frame Linear Power Supply, 220V ac Input,12V dc Output, 5A Output	
Power Supply:			
Emergency Exit Button:	-	Touchless Infrared Induction Door Release EXIT Buttonwith 2 Channels Remote Control	
		for Access Control GateOpeners.	
Other Installation Materials:	-	1x Roll UTP Cable	
		1x Roll Duplex Wire #16	
		1x Lot Auxillary materials	
		1x Lot Setup and Installation, Mobilization & Transportation	
Awning Glass Window:	-	Use 1/4" thk. Tinted Glass (Light Gray)	
A.04 PAINTING	WORK	(S	
Concrete Walls (Repaint):	-	Primer Coat: Use Flat Latex Primer. Apply 1 coat. 1 hour drying time per coat.	
		Top Coat : Use White, Satin Finish. Apply 2 coats. 1 hour drying time per coat.	
		Application: Use Roller Brush 7" and 4" Paint Brush for the corners.	
False Walls:	-	Primer Coat: Use Flat Latex Primer. Apply 1 coat. 1hour drying time per coat.	
		Top Coat: Use Steel Blue, Satin Finish. Apply 2 coats. 1 hour drying time	
		per coat.	

Application: Use Roller Brush 7" and 4" Paint Brush for the corners.

A.05 TILE WORKS Installation: -

Must be seamless

A.06 ELECTRICAL WORKS: Switch: - Use

Use Smart Switch. (see specs)

- Use "Wide Series" type of outlets.
- Use 3-Gang Floor Mounted Convenience Outlet (see specs) per computer unit.

RecordingVideo Compression H.265/H.264Encoding Resolution

Smart Education Solution:

Convenience Outlets:

EDUCATION SHARING SYSTEM: MODEL: (DS-9604LNI-V/B12(STD)

- Main stream: 8MP/4MP/1080p/720p/WD1/4CIF/VGA/CIF
 - Sub-stream: 540p/WD1/4CIF/CIF
 - Only M1 direct channel supports 8 MP and 4 MP
 - Frame Rate: 1 to 25 fps
 - Video Bitrate: 32 Kbps to 16 Mbps
 - Stream Type: Video & Audio, Video
 - Audio Compression: AAC
 - Audio Bitrate: 128 Kbps
 - Video and AudioIP Video Input: 5-ch
- a. HDMI 1 Output
 - · 4K (3840 × 2160)/30 Hz, 2K (2560 × 1440)/60 Hz, 1920 × 1080/60 Hz, 1280 × 1024/60 Hz, 1280 × 720/60 Hz, 1024 × 768/60 Hz

• HDMI 2 Output 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 ×

768/60Hz

- b. HDMI Input
 - 1-ch; 4K (3840 × 2160)/30 Hz, 1920 × 1080/60Hz, 1600 × 1200/60 Hz, 1280 × 1024/60 • Hz, 1440 × 900/60 Hz, 1366 × 768/60 Hz, 1280 × 720/60Hz, 1024 × 768/60Hz, 800
- ×600/60 Hz
- HDMI Loopback 1-ch (matching HDMI video in)
- c. LCD Output
 - 15.6" TFT LCD FHD (1920 × 1080)
- Support touch screen
- d. Audio Output
 - 1-ch dual track of 3.5 mm connector
 - 1-ch dual track of green connector
 - 2-ch dual track of HDMI interface
- e. Audio Input
 - 1-ch dual track of 3.5 mm line in
 - 1-ch dual track of 3.5 mm mic in
 - 2-ch single track of green connector;
- 1-ch dual track of HDMI in

f. Audio Sampling Rate 48 KHz

Built-In System

- Processor: Intel® Core i5 9400H
- CPU Clock Speed: 2.5GHz
- Platform Architecture: Intel® Coffeelake
- PCH: Intel® Z370
- Graphics: Intel® UHD Graphics 630
- Memory: 8G
- Storage: 256G
- NIC: Integrated 10/100/1000M Adaption
- Cooling System: Single Brass & Single Fan
- Interface
- Network Interface: RJ45×1
- Data Transmission Interface: Bluetooth 4.2
- Antenna: 2
 - Video Output: HDMIx1, DPx1
- Power
 - Input Voltage: 12V-19V DC
 - Max. Consumption: 60W
 - Standby Consumption: 0.5W
 - Working Environment
 - Storage Temperature: -20°C 60°C
 - Storage Humidity: 10%-90%
 - Working Temperature: 0°C 40°C
 - Working Humidity: 10%-90%
- General
 - Product Dimensions (W × H × D): 180×195×30mm
 - Net Weight: About 1.24kg
 - Color: Black
- Display
 - Screen Size: 86 inch LED Backlight
- BacklightDLED
 - Pixel Pitch0.164 (H) × 0.493 (V) mm
 - Resolution3840 × 2160@60 Hz
 - Brightness350 cd/m²
 - Color Depth10 bit
- 86" INTERACTIVE DISPLAY WITH STANDING AND WALL MOUNTED BRACKET:
 - (Model: DS-D5B86RB/C)

(Open Pluggable Specification): Model: (DS-D5AC9C5-8S2)

OPS

- Contrast Ratio4000 : 1 (Typ.)
- Response Time6 ms
- Color Gamut90% NTSC (CIE1931) (Typ.) Refresh Rate60 Hz
- Viewing Angle178° (H) / 178° (V)
- Built-In System
- Operation SystemAndroid 11
 - ProcessorA72*2 + A53*4, 1.8 GHz
 - Memory4 GB
 - Built-In Storage64 GB
 - NICBuilt-in 1000 Mbps NIC, supporting routing; IEEE 802.11 a/b/g/n/ac with
 - 2×2 MIMO, supporting both 2.4 GHz and 5GHz bands
- Touch
 - TypeInfrared touch screen
 - GlassAG smooth glass
 - Touch PointMax 45 point multi-touch
 - Touch Response Time < 10 ms
 - Touch Precision $\pm 1 \text{ mm} (\geq 90\% \text{ touching area})$
- **Internal Function**
 - · LoudspeakerBuilt-in 2 × 16 W loudspeaker
 - BluetoothBuilt-in BLE (Bluetooth Low Energy) module supports Bluetooth 5.0 and previous version
 - Interface
 - Video & Audio InputHDMI IN × 2, MAX 4K @30 Hz, LINE IN × 1
 - Video & Audio OutputHDMI OUT(HDMI 2.0) × 1, MAX 4K @60 Hz, LINE OUT × 1
 - Control InterfaceRS-232 \times 1, Touch-USB \times 1
 - Network InterfaceRJ45 (1000 Mbps port) × 2
 - Data Transmission InterfaceUSB-C × 1, USB-A × 2 on front panel, USB-A × 2 on
 - rear panel

Power

- Power Consumption≤ 490 W (full load)
- Standby Consumption0.5 W
- Working Environment
- Working Temperature0 °C to 40 °C (32 °F to 104 °F)
- Working Humidity10% to 90% RH

General

- Power100 to 240 V, AC, 50/60 Hz
- Product Dimensions1963 × 1159 × 87.5 mm
- Package Dimensions (W × H × D)2187 × 1366 × 274 mm
- Net Weight65.12 kg
- Gross Weight86.24 kg
- Lifespan50000 hours
- Inclusion:

Wall Mount Bracket

- 960mm x 180mm x 600mm
- Camera
- Image Sensor: 1/1.8" Progressive Scan CMOS
- Max. Resolution: 3840 × 2160
- · Min. Illumination: Color: 0.002 Lux @ (F1.2, AGC ON); B/W: 0.0002 Lux @ (F1.2,
- AGC ON), 0 Lux with IR
- Shutter Time: 1 s to 1/100,000 s
- Day & Night: IR cut filter
- Blue glass module to reduce ghost phenomenon
- Angle Adjustment: Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355°
- Lens
 - Focal Length & FOV: 2.8 to 12 mm, horizontal FOV: 112.3° to 41.2°, vertical FOV: 58° to
- 23.1°, diagonal FOV: 137.3° to 47.3°
- 8 to 32 mm, horizontal FOV: 41.8° to 14.9°, vertical FOV: 22.92° to 8.48°,
- diagonal FOV: 48.7° to 17°
- · Focus: Auto, semi-Auto, manual
- Iris Type: P-Iris
- Aperture: 2.8 to 12 mm: F1.2 to 2.5
- 8 to 32 mm: F1.7 to F1.73
- DORI
- DORI: Wide:
- 2.8 to 12 mm: D: 87 m, O: 34.5 m, R: 17.4 m, I: 8.7 m
- 8 to 32 mm: D: 218 m, O: 86.5 m, R: 43.6 m, I: 21.8 m
- Tele:
- 2.8 to 12 mm: D: 216 m, O: 85.7 m, R: 43.2 m, I: 21.6 m
- 8 to 32 mm: D: 580 m, O: 230.2 m, R: 116 m, I: 58 m
- Illuminator
- IR Wavelength: 850 nm
- Smart Supplement Light: Yes
- · Supplement Light Range: 2.8 to 12 mm: 30 m
- 8 to 32 mm: 50 m

4K DeepinViewVF Dome IPC (Teacher's View) - 2 Pcs: (iDS-2CD7186G0-IZS(2.8-12mm) (HIK EDU)/TEA)

Supplement Light Type: IR **AI Open Platform** · Model Specification: Up to 4 models, Model type: detection model, classification model, mixed model (detection model and classification model) Video Main Stream: 50 Hz: 25 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280×720 60 Hz: 30 fps (3840 × 2160, 3072 × 1728, 2560 × 1440, 1920 × 1080, 1280 × 720) • Sub-Stream: 50 Hz: 25 fps (704 × 480, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480) • Third Stream: 50 Hz: 25 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480) 60 Hz: 30 fps (1920 × 1080, 1280 × 720, 704 × 480, 640 × 480) Fourth Stream: 50 Hz: 25 fps (704 × 480, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480) • Fifth Stream: 50 Hz: 25 fps (704 × 480, 640 × 480) 60 Hz: 30 fps (704 × 480, 640 × 480) · Video Compression: Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264, Fourth stream: H.265/H.264/MJPEG, Fifth stream: H.265/H.264/MJPEG Video Bit Rate: 32 Kbps to 16 Mbps · H.264 Type: Baseline Profile, Main Profile, High Profile H.265 Type: Main Profile · Bit Rate Control: CBR, VBR Scalable Video Coding (SVC): H.264 and H.265 encoding Region Of Interest (ROI): 4 fixed region(s) for each stream Target Cropping: Yes Audio • Audio Bit Rate: 64 Kbps (G.711ulaw/G.711alaw)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 to 192 Kbps (MP2L2)/8 to 320 Kbps (MP3)/16 to 64 Kbps (AAC-LC) Audio Compression: G.711/G.722.1/G.726/MP2L2/PCM/MP3/AAC-LC Audio Sampling Rate: 8 kHz/16 kHz/32 kHz/44.1 kHZ/48 kHz Audio Type: Mono sound · Environment Noise Filtering: Yes Network · Protocols: TCP/IP, ICMP, HTTP, HTTPS, FTP, SFTP, SRTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSI/TLS • Simultaneous Live View:Up to 20 channels • API: Open Network Video Interface (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK, ISUP • User/Host:Up to 32 users 3 user levels: administrator, operator, and user Network Storage: NAS (NFS, SMB/CIFS), auto network replenishment (ANR) Together with high-end Hikvision memory card, memory card encryption and health detection are supported. · Security: Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2 · Client: iVMS-4200, Hik-Connect • Web Browser: Plug-in required live view: IE9+, Chrome 41.0 to 44, Firefox 30.0 to 51, Safari 8.0 to 11 Plug-in free live view: Chrome 45.0+, Firefox 52.0+ Not recommended: Safari 11+, Edge

Image

- Image Parameters Switch: Yes
- Image Settings: Saturation, brightness, contrast, sharpness, white balance, and AGC adjustable by client software or web browser
- · Day/Night Switch: Day, Night, Auto, Schedule, Alarm Trigger
- Wide Dynamic Range (WDR): 120 dB
- Defog: Yes
- Image Enhancement: BLC, HLC, Defog, 3D DNR
- SNR: ≥ 52 dB

Privacy Mask: 8 programmable polygon privacy masks, mask color or mosaic configurable

Image Stabilization: EIS

Picture Overlay: LOGO picture can be overlaid on video with 128 × 128 24bit
 bmp format

Interface

- Video Output: 1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)
- Ethernet Interface: 1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port
 - On-Board Storage: Built-in memory card slot, support

microSD/microSDHC/microSDXC card, up to 1 TB

Audio: 1 input (line in), 1 output (line out), 3.5 mm connector,1 built-in microphone

• Alarm: 1 input, 1 output (max. 24 VDC, 1 A)

• RS-485: 1 RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)

Reset Key: Yes

• Power Output: 12 VDC, max. 100 mA

Event

Basic Event: Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, abnormal reboot, HDD full, HDD error), video quality diagnosis, vibration detection

• Smart Event: Line crossing detection, intrusion detection, Region entrance detection, region exiting detection, audio exception detection, scene change detection, defocus detection

Linkage: Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, trigger capture, audible warning Deep Learning Function

Multi-Target-Type Detection-: Supports simultaneous detection and capture of human body, face and vehicle

Gets 7 face features, 13 human body features and 2 vehicle features

• Face Capture: 1. Detects up to 60 faces simultaneously

- Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°
 - 3. Uploads face with background and closed-up face pictures

• Face Comparison: Up to 10 face libraries. Up to 30,000 faces for each

library.150,000 faces in total.

Supports face library encryption

• Perimeter protection: Line crossing, intrusion, Region entrance, Region exiting Support alarm triggering by specified target types (human and vehicle)

· People Counting: Supports crossline people counting,

Supports counting, displaying and exporting the people flow data

of entering and exiting. (The data is stored in the flash.),

The real-time people flow data is displayed on the screen.

Supports swing left and right from -60° to 60°, tilt up and down from -30° to 30°.,

Uploads face with background and closed-up face picture.,

Supports real-time uploading and uploading by statistic cycle

Queue Management: Supports up to 8 detection regions, and independent arming schedule and linkage method

Supports 2 detection modes: regional people queuing-up, waiting time detection

Generates reports to compare the efficiency of different queuing-ups and display the changing status of one queue

Supports raw data export for further analysis.

Supports real-time data uploading and scheduled data uploading

Regional people queuing-up: supports 4 alarm trigger conditions,

including greater than threshold, less than threshold, equal to threshold, not equal to threshold

Waiting time detection: supports 1 alarm trigger condition, including greater than threshold

• Heat Map: A graphic description of visits (by calculating amount of people or amount of dwell time) in a configured area.,

Two report types are available, space heat map and time heat map line chart.

 Hard Hat Detection: Detects up to 30 human targets simultaneously Supports up to 4 shield regions

Metadata: intrusion detection, Line crossing detection, Region entrance

detection, region exiting detection, face capture, multi-target-type detection • Regional People Counting: Supports up to 8 detection regions, and independent arming schedule and linkage method

Supports 3 detection modes: people density detection, number of people

exception detection, waiting time exception detection Supports parameter settings: alarm times per exception, alarm interval, first alarm

delay

Supports searching real-time number of people

People density detection: supports scheduled uploading, number of people change uploading, congestion level uploading

Number of people exception detection: supports 6 alarm trigger conditions, including greater than threshold A, less than threshold A, equal to threshold A, not equal to threshold A, greater than threshold A and less than threshold B, less than threshold A or greater than threshold B (threshold A should be less than threshold B)

Waiting time exception detection: supports 3 alarm trigger conditions, including greater than threshold A, less than threshold A, greater than threshold A and less than threshold B (threshold A should be less than threshold B)

· On/Off Duty Detection: Supports up to 8 detection regions, and independent arming schedule and linkage method Supports 2 detection modes: absence detection, on/off duty detection Supports parameter settings: person on duty, absence duration General •Power: 12 VDC± 20%, 1.02 A, max. 12.4 W, two-core terminal block · 24 VAC± 20%, 0.49 A, max. 11.8 W, two-core terminal block • PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.22 A to 0.29 A, max. 12.5 W • Dimension: Ø140.5 × 122.6 mm (Ø5.5" × 4.8") • Package Dimension: 244 × 174 × 173 mm (9.6" × 6.9" × 6.8") • Weight: Approx. 875 g (1.93 lb.) • With Package Weight: Approx. 1415 g (3.11 lb.) • Startup And Operating Conditions: -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing) · Language: 33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil), Ukrainian Storage Conditions: -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (noncondensing) · General Function: Heartbeat, mirror, Password protection, watermark, Privacy mask, IP address filter, one-key reset, five streams Approval • EMC: FCC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EEN 61000-3-3:2013+A1:2019,EN 50130-4: 2011 +A1: 2014); RCM (AS/NZS CISPR 32: 2015); IC (ICES-003: Issue 7); KC (KN 32: 2015, KN 35: 2015) Safety: UL (UL 62368-1); CB (IEC 62368-1:2014+A11); CE-LVD (EN 62368-1:2014/A11:2017); BIS (IS 13252(Part 1):2010/IEC 60950-1: 2005); LOA (IEC/EN 60950-1) Environment: CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006) • Protection: IK10 (IEC 2003:62263) Other: PVC FREE Camera Image Sensor: 1/1.8" Progressive Scan CMOS (Student's View): • Max. Resolution: 3840 × 2160 · Min. Illumination: Color: 0.002 Lux @ (F1.2, AGC ON); B/W: 0.0002 Lux @ (F1.2, AGC ON), 0 Lux with IR Shutter Time: 1 s to 1/100,000 s Day & Night: IR cut filter Blue glass module to reduce ghost phenomenon • Angle Adjustment: Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355° Lens Focal Length & FOV: 2.8 to 12 mm, horizontal FOV: 112.3° to 41.2°, vertical FOV: 58° to 23.1°, diagonal FOV: 137.3° to 47.3° 8 to 32 mm, horizontal FOV: 41.8° to 14.9°, vertical • FOV: 22.92° to 8.48°, diagonal FOV: 48.7° to 17° · Focus: Auto, semi-Auto, manual Iris Type: P-Iris · Aperture: 2.8 to 12 mm: F1.2 to 2.5 8 to 32 mm: F1.7 to F1.73 · Í authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP OVER HTTPS, Control Timeout Settings, Security Audit Log, TLS 1.2 Client: iVMS-4200, Hik-Connect • Web Browser: Plug-in required live view: IE9+, Chrome 41.0 to 44, Firefox 30.0 to 51, Safari 8.0 to 11 Plug-in free live view: Chrome 45.0+, Firefox 52.0+ Not recommended: Safari 11+, Edge Image · Image Parameters Switch: Yes · Image Settings: Saturation, brightness, contrast, sharpness, white balance, and AGC adjustable by client software or web browser · Day/Night Switch: Day, Night, Auto, Schedule, Alarm Trigger Wide Dynamic Range (WDR): 120 dB Defoa: Yes · Image Enhancement: BLC, HLC, Defog, 3D DNR

4K DeepinViewVF Dome IPC

Model: iDS-2CD7186G0-IZS (2.8-12mm)(HIK EDU)/STU

SNR: ≥ 52 dB

Privacy Mask: 8 programmable polygon privacy masks, mask color or mosaic

configurable

Image Stabilization: EIS

-- Picture Overlay: LOGO picture can be overlaid on video with 128 \times 128 24bit bmp format Interface

· Video Output: 1 Vp-p Composite Output (75 Ω/CVBS) (Only for debugging)

Ethernet Interface: 1 RJ45 10 M/100 M/1000 M self-adaptive Ethernet port
 On-Board Storage: Built-in memory card slot, support microSD/microSDHC/microSDXC

card, up to 1 TB • Audio: 1 input (line in), 1 output (line out), 3.5 mm connector,1 built-in microphone

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 Alarm: 1 input, 1 output (max. 24 VDC, 1 A)

· RS-485: 1 RS-485 (half duplex, HIKVISION, Pelco-P, Pelco-D, self-adaptive)

Reset Key: Yes
Power Output: 12 VDC, max. 100 mA

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Deep Learning Function

• Multi-Target-Type Detection-: Supports simultaneous detection and capture of human body, face and vehicle Gets 7 face features, 13 human body features and 2 vehicle features

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and exiting. (The data is stored in the flash.),

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Supports raw data export for further analysis.

Supports real-time data uploading and scheduled data uploading

Regional people queuing-up: supports 4 alarm trigger conditions, including greater than threshold, less than threshold, equal to threshold, not equal to threshold

Waiting time detection: supports 1 alarm trigger condition, including greater than threshold

Heat Map: A graphic description of visits (by calculating amount of people or amount of

dwell time) in a configured area., Two report types are available, space heat map and time heat map line chart.

• Hard Hat Detection: Detects up to 30 human targets simultaneously

Supports up to 4 shield regions

Metadata: intrusion detection, Line crossing detection, Region entrance detection, Region exiting detection, face capture, multi-target-type detection

Regional People Counting: Supports up to 8 detection regions, and independent arming schedule and linkage method

Supports 3 detection modes: people density detection, number of people exception detection, waiting time exception detection

Supports parameter settings: alarm times per exception, alarm interval, first alarm delay Supports searching real-time number of people

People density detection: supports scheduled uploading, number of people change uploading, congestion level uploading

Number of people exception detection: supports 6 alarm trigger conditions, including greater than threshold A, less than threshold A, equal to threshold A, not equal to threshold A, greater than threshold A and less than threshold B, less than threshold A or greater than threshold B (threshold A should be less than threshold B)

Waiting time exception detection: supports 3 alarm trigger conditions, including greater than threshold A, less than threshold A, greater than threshold A and less than

	threshold B (threshold A should be less than threshold B)			
	 On/Off Duty Detection: Supports up to 8 detection regions, and independent arming 			
	schedule and linkage method			
	Supports 2 detection modes: absence detection, on/off duty detection			
	Supports parameter settings: person on duty, absence duration			
	General			
	Power: 12 VDC± 20%, 1.02 A, max. 12.4 W, two-core terminal block			
	24 VAC± 20%, 0.49 A, max. 11.8 W, two-core terminal block PoE: 802.3at, Type 2, Class 4, 42.5 V to 57 V, 0.22 A to 0.29 A, max. 12.5 W			
	• Dimension: $\emptyset140.5 \times 122.6 \text{ mm} (\emptyset5.5'' \times 4.8'')$			
	• Package Dimension: $244 \times 174 \times 173$ mm (9.6" \times 6.9" \times 6.8")			
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	less (non-condensing)			
	• Language: 33 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek,			
	German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian,			
	Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean,			
	Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil),			
	Ukrainian			
	 Storage Conditions: -30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less 			
	(noncondensing)			
	 General Function: Heartbeat, mirror, Password protection, watermark, Privacy Mask, IP 			
	address filter, one-key reset, five streams			
	Approval			
	 EMC: FCC (47 CFR Part 15, Subpart B); 			
	CE-EMC (EN 55032: 2015, EN 61000-3-2:2019, EEN 61000-3-3:2013+A1:2019,EN 50130-4:			
	2011 +A1: 2014);			
	RCM (AS/NZS CISPR 32: 2015);			
	IC (ICES-003: Issue 7);			
	KC (KN 32: 2015, KN 35: 2015)			
	• Safety: UL (UL 62368-1);			
	CB (IEC 62368-1:2014+A11);			
	CE-LVD (EN 62368-1:2014/A11:2017);			
	BIS (IS 13252(Part 1):2010/IEC 60950-1 : 2005);			
	LOA (IEC/EN 60950-1)			
	Environment: CE-RoHS (2011/65/EU);			
	WEEE (2012/19/EU);			
	Reach (Regulation (EC) No 1907/2006)			
	Protection: IK10 (IEC 2004:62264)			
	Other: PVC FREE			
License Software	 Remote Share Tool Base Package - Including connect and manage 			
	classroom video devices, share the video remotely to students' PC and mobile			
	phone client through the tripartite video conferencing software (such as			
	Zoom and WebEx) through the digital-to-analogue conversion of the local camera video stream access via USB.			
	 Supported: Provides functions as devices Management, share the Video 			
	remotely and etc.			
	 Supports adding classroom, editing classroom, deleting classroom, importing 			
	classroom, exporting classroom, filtering classroom by the Classroom No. and			
	Device IP Address, and parameter configuration.			
	Supports connecting one classroom at a time by checking activation code,			
	and disconnecting one classroom. If you do not activate the remote sharing			
	tool through an activation code, it will be automatically disconnecting which			
	is more than 20 minutes.			
	 Supports activating this tool by an activation code and deactivating it. 			
	 Supports Audio sharing. 			
MICROPHONE	- Microphone			
OVERHEAD HANGING:	Amount: 32			
MODEL: DS-UAC-M1P(O-STD)	Direction: Omnidirectional			
	 Pickup Distance: In the radius up to 10 m 			
	Sensitivity: -36 dB±1 dBFS			
	· SNR: 90 dB			
	Frequency Response: 20 Hz~16 kHz			
	Dynamic Range: 105 dB			
	Max. Sound Pressure Level: 120 dBSPL			
	Output Amplitude: 2.5 Vpp MAX Audia Transmission Distance: >2000 m			
	 Audio Transmission Distance: ≥3000 m Output Impedance: 600 Q balanced output 			
	 Output Impedance: 600 Ω, balanced output Distortion Degree: ≤3% 			
	Functions			
	Echo Suppression: Yes			
	Noise Reduction Adjustment: digital noise reduction			
	• Volume Adjustment: \geq 100 level volume adjustment			
	Device Management: Power-off detection, program exception detection			
	Anti-Reverberation: Yes			

Materials: SOLECO Standards:	Audio • Audio Sampling Rate: 16 kHz, 32 kHz Interface Indicator • Solid white: normally working • Solid red: abnormal • No light: no power supply • Device Interface: Line out, Line in, DC power input, RJ45 network cable General • Power: 9 VDC~30 VDC, PoE, 2.4 W Max • Material: Plastic • Dimension: Ø250 mm × 34.5 mm (Ø9.84" × 1.36") • Weight: Approx. 740 g (1.63 lb.) • Operating Condition: -10 °C~50 °C (14°F~122°F, Indoor) Approval • Protection: lightning protection, power polarity reversal protection, and electrostatic discharge protection - Comply with Philippine Electrical Code • Black (hot lines); colored wire (ground)
B. WORKMANSHIP	
B.01 Site Clearing	 All surface objects other protruding obstructions not designated to remain shall be cleared and removed.
B.02 Housekeeping	 Cleanliness and orderliness within the worksite is a must to enhance overall safety for the whole project.
B.03 Others	 Contractor's workers must always abide by Project's and School's safety and security rules and regulations. Violating workers will not be allowed to work and will be blacklisted. Details of these rules and regulations will be discussed during the kick-off meeting. List of workers and equipment must be submitted (w/ serial number) during the kick-off meeting.
Prepared by:	Reviewed by:

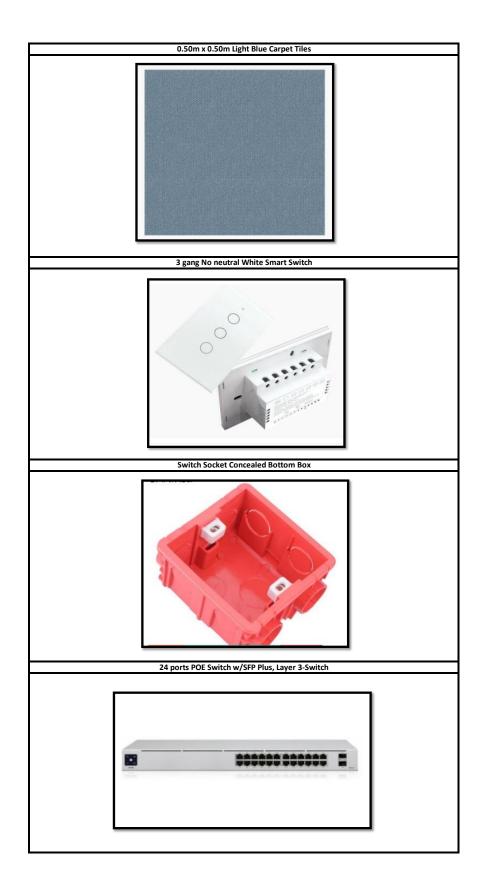
JEAMES PAUL V. EVANGELISTA Architect I RYAN A. MACUTO

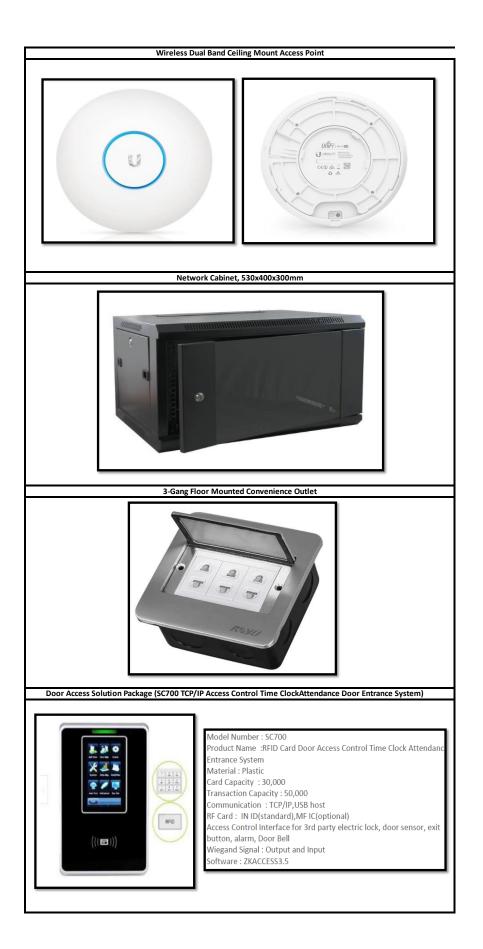
Engineer II

Recommending Approval:

Approved by:

DEWOOWOOGEN P. BACLAYON, PhD Vice President for Admin and Finance **JUDE A. DUARTE, DPA** University President





Door Access Solution Package (sNI600 Electric Frameless Glass Door Lock)			
Lock Door Reloc Optic Rate Start Face Suita Face Strike	r strength : 2000Lbs/1000kg Status instructions : LED Display Status Sensors : Dry contact NO,NC,COM k Delay Timer : 0/ 2.5 /5 seconds available to set nal Functions : Lock Status Sensors ,Buzzer l Operating Voltage DC 12V or 24V (Customization Available) Current : 900mA, Standby Current :250mA place material : High Aluminum ble for Fully Frameless Glass Door(12~15mm thickness) Plate Dimensions 170Lx49WX43H(mm) th in kg 0.9kg			
Door Access Solution Package	(Door Access Centralized Power Supply)			
	en Frame Linear Power Supply, 220V ac Input, V dc Output, 5A Output			
Door Access Solution	Package (Emergency Exit Button)			
Ma Touch	ouchless Infrared Induction Door Release EXIT Button with 2 Channels Remote Control for Access Control Gate Openers			
Aluminum Pop Up Floor Socket 2 Port Lan Outlet				

