

CONTRACT

This Contract for the Supply and Installation of Three (3) Brand New CCTV Dome Camera Units ("Contract") is entered into between the Embassy of the Republic of the Philippines of 80 Hoenamu-ro, Yongsan-gu, Seoul 04346 represented by Ambassador Maria Theresa B. Dizon-De Vega, herein referred to as "Embassy", and Oppenheim Systems of Room 605, B-dong 128, Beopwon-ro, Songpa-gu, Seoul, represented by Mr. Lee Dong-won, hereinafter referred to as the "Supplier".

I. SCOPE OF WORK

The Supplier agrees to supply and install three (3) brand-new CCTV dome camera units within thirty (30) days upon signing of this contract.

II. SPECIFICATIONS

For Hitron Systems Model NTH-12J2

<u>IMAGE</u>	
<i>Lens</i>	Motorized Varifocal 2.8~12mm, F1.4
<i>Angle of View</i>	94°(H)~34°(H)
<i>Min. Illumination</i>	Color: 0.1Lux@F2.1 / BW: 0Lux@F2.1(IR LED On)
<i>Scanning Mode</i>	Progressive Scan
<i>Wide Dynamic Range</i>	Yes
<i>Day and Night Mode</i>	True D/A (Auto, Day, Night)
<i>Noise Reduction</i>	2DNR, 3DNR
<i>Digital Zoom</i>	Yes (ROI)
<i>Exposure Control</i>	Auto
<i>White Balance Control</i>	Auto, Manual
<i>Back Light Compensation</i>	Yes
<i>Image Effect</i>	Flip, Mirror, Defog
<i>Flicker Free Mode</i>	50Hz, 60Hz
<i>Shutter Speed</i>	Auto (1/10,000~1sec), Manual
<i>IR Illuminator</i>	
<i>Quantity</i>	30 IR LEDs
<i>Angle</i>	90/30°(H)
<i>Distance</i>	Up to 30m
<u>VIDEO/AUDIO</u>	
<i>Compression</i>	H.264(Baseline, Main, High Profile), MJPEG
<i>Bitrate Control</i>	CBR/CVBR

<i>Resolution</i>	1920x1080, 1280x1024, 1280x720/960 1024x768, 704x480/576, 640x480, 320x240
<i>Frame Rate</i>	Max. 30/25fps (NTSC/PAL)
<i>Streaming</i>	Triple Stream: H.264/H.265x2, MJPEGx1
<u>SYSTEM</u>	
<i>Video Contents Analysis</i>	Tampering
<i>Motion Detection Area</i>	16 Programmable Area (Include Area 8, Exclude Area 8)
<i>Privacy Mask Zone</i>	4 Programmable Zone
<i>Smart Codec ROI</i>	8 Regions
<i>FTP Uploading</i>	MJPEG
<i>Event Notification</i>	E-mail, FTP, Notification Server, XML Notification
<i>Login Authority</i>	Administrator, Operator, Guest
<i>Event Buffering FTP</i>	Pre: 30sec, Post: 30sec
<i>Manual Trigger</i>	4 Programmable Trigger
<i>Security</i>	Multi User Authority, IP Filtering, HTTPS, SSL
<i>Network Time Sync</i>	NTP Server, Synchronized Computer, Manual
<i>Software Reset</i>	Restart, Reset, Factory Default
<i>Auto Recovery</i>	Back-up, Restore
<i>Hardware Factory Reset</i>	Yes
<i>Auto Recovery</i>	Backup, Restore
<i>Remote Upgrade</i>	Web Browsing (IE, Chrome, Safari, Firefox), SmartManager
<u>NETWORK</u>	
<i>Protocol</i>	TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, QoS, FTP, UPnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf, Bonjour
<i>Client Software</i>	Web, SmartManager, Client S/W, Mobile S/W
<i>Max. User Connection</i>	Live: 10 users, Playback: 3 users
<i>API Support</i>	Open API, Onvif Compliance
<i>Mobile Support</i>	Android, iOS
<u>EXTERNAL IN/OUT</u>	
<i>Ethernet</i>	RJ-45(10/100Base-T)
<u>ETC</u>	
<i>Operating Humidity</i>	95% or less(Non-Condensing)
<i>Operating Temperature</i>	-20~+50°C
<i>Power Supply</i>	PoE / 12VDC
<i>Power Consumption</i>	175mA(8.4W)@PoE / 550mA(6.6W)@12VDC

<i>Dimension</i>	135.4(Ø)x127.7(H)mm
<i>Net Weight</i>	Approx. 900g

For Hitron Systems NUH-24J2

<u>IMAGE</u>	
<i>Lens</i>	Motorized Varifocal 2.8~12mm
<i>Angle of View</i>	94°(H)~34°(H)
<i>Image Sensor</i> <i>Type</i> <i>Pixels</i>	1/3" CMOS Sensor 2688(H)x1520(V)
<i>Min. Illumination</i>	Color: 0.1Lux@F2.1 / BW: 0Lux@F2.1(IR LED On)
<i>Scanning Mode</i>	Progressive Scan
<i>Wide Dynamic Range</i>	Yes
<i>Day and Night Mode</i>	True D/A (Auto, Day, Night)
<i>Noise Reduction</i>	2DNR, 3DNR
<i>Digital Zoom</i>	Yes (ROI)
<i>Exposure Control</i>	Auto
<i>White Balance Control</i>	Auto, Manual
<i>Back Light Compensation</i>	Yes
<i>Image Effect</i>	Flip, Mirror, Defog
<i>Flicker Free Mode</i>	50Hz, 60Hz
<i>Shutter Speed</i>	Auto (1/10,000~1sec), Manual
<i>IR Illuminator</i> <i>Quantity</i> <i>Angle</i> <i>Distance</i>	24 IR LEDs 90/30°(H) Up to 30m
<u>VIDEO/AUDIO</u>	
<i>Compression</i>	H.264(Baseline, Main, High Profile), MJPEG
<i>Bitrate Control</i>	CBR/CVBR
<i>Resolution</i>	4M Capture Mode: 2592x1520, 2048x1520, 1920x1080, 704x480, 576, 640x480, 320x240 2M Capture Mode: 1920x1080, 1280x1024, 1280x720/960, 1024x768, 704x480/576, 640x480, 320x240
<i>Frame Rate</i>	4M Capture Mode: Max. 20/20fps (NTSC/PAL) 2M Capture Mode: Max. 30/25fps (NTSC/PAL)
<i>Streaming</i>	Triple Stream: H.264/H.265x2, MJPEGx1
<u>SYSTEM</u>	

<i>Video Analysis</i>	<i>Contents</i>	Tampering, IiVMD, Intrusion Detector
<i>Motion Detection Area</i>		16 Programmable Area (Include Area 8, Exclude Area 8)
<i>Privacy Mask Zone</i>		4 Programmable Zone
<i>Smart Codec ROI</i>		8 Regions
<i>FTP Uploading</i>		MJPEG
<i>Event Notification</i>		E-mail, FTP, Notification Server, XML Notification
<i>Login Authority</i>		Administrator, Operator, Guest
<i>Event Buffering FTP</i>		Pre: 30sec, Post: 30sec
<i>Manual Trigger</i>		4 Programmable Trigger
<i>Security</i>		Multi User Authority, IP Filtering, HTTPS, SSL
<i>Network Time Sync</i>		NTP Server, Synchronized Computer, Manual
<i>Software Reset</i>		Restart, Reset, Factory Default
<i>Auto Recovery</i>		Back-up, Restore
<i>Hardware Reset</i>	<i>Factory</i>	Yes
<i>Auto Recovery</i>		Backup, Restore
<i>Remote Upgrade</i>		Web Browsing (IE, Chrome, Safari, Firefox), SmartManager
<u>NETWORK</u>		
<i>Protocol</i>		TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, QoS, FTP, UPnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf, Bonjour
<i>Client Software</i>		Web, SmartManager, Client S/W, Mobile S/W
<i>Max. User Connection</i>		Live: 10 users, Playback: 3 users
<i>API Support</i>		Open API, Onvif Compliance
<i>Mobile Support</i>		Android, iOS
<u>EXTERNAL IN/OUT</u>		
<i>Ethernet</i>		RJ-45(10/100Base-T)
<u>ETC</u>		
<i>Operating Humidity</i>		95% or less(Non-Condensing)
<i>Operating Temperature</i>		-20~+50°C
<i>Power Supply</i>		PoE / 12VDC
<i>Power Consumption</i>		145mA(8.4W)@PoE / 480mA(6.6W)@12VDC
<i>Dimension</i>		81(W)x82(H)x239(D)mm
<i>Net Weight</i>		680g

III. DELIVERABLES

The Supplier shall supply and install three (3) brand new CCTV dome camera

units in the following areas of the Embassy

Area	Model Number	Quantity
3F Lobby	NTH-12J2	1
4F Lobby	NTH-12J2	1
Back Gate	NUH-24J2	1

IV. WARRANTY

The product shall include one (1) year warranty beginning from project completion date.

V. TERMS OF PAYMENT

Payment shall be made within fifteen (15) days upon completion of delivery and installation of three (3) CCTV dome cameras.

02 OCTOBER 2022

[EMBASSY]

[SUPPLIER]

MARIA THERESA B. DIZON DE-VEGA
Ambassador
Embassy of the Republic of the Philippines



LEE DONG-WON
CEO
Oppenheim Systems



units in the following areas of the Embassy

Area	Model Number	Quantity
3F Lobby	NTH-12J2	1
4F Lobby	NTH-12J2	1
Back Gate	NUH-24J2	1

IV. WARRANTY

The product shall include one (1) year warranty beginning from project completion date.

V. TERMS OF PAYMENT

Payment shall be made within fifteen (15) days upon completion of delivery and installation of three (3) CCTV dome cameras.

02 OCTOBER 2022

[EMBASSY]



Maria Theresa B. Dizon de Vega
MARIA THERESA B. DIZON DE-VEGA
Ambassador
Embassy of the Republic of the Philippines

[SUPPLIER]



LEE DONG-WON
CEO
Oppenheim Systems