

Total Security Solution





High-reliability security equipment for life safety in a networked world, designed and made by **EMSTONE**

EMSTONE develops and manufactures world-class video security equipment that is convenient and reliable. We are doing our best for a safer world based on the technology and experience accumulated over many years. We want to play the role of one HUB by converging various security solutions that are increasing with the development of technology.



www.emstone.com

Competitive Strength of EMSTONE Product



PC Type Monitoring Solution based on LINUX

Linux-based applications can monitor, search and store up to 1024CH. Effective resource control ensures the stability of the operating system.



Interworking with 3rd Party Solution

It supports video-based system integration through interworking with various 3rd party (LPR, Fire, Al, Emergency bell, Elevator, etc) systems. And API Provided for 3rd party.



High resolution image display

Ultra-high resolution of IP Cameras, images, videos, real-time monitoring of servers are possible without physicla limitations



User-friendly GUI

Intuitive and easy-to-understand interface configurations such as calendar/time search capabilities and easy event settings make it easier for users to access.

Field of Business

City Surveillance



Facility



Power Plant, Factory



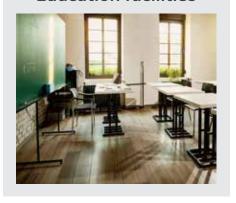
Transportation facilities



Military Area



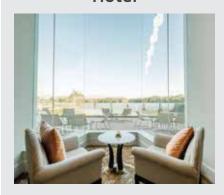
Education facilities



Hospital



Hotel



Department Store



REDBACK VMS is a VMS solution optimized for integrated video control that can store and distribute up to 1024 channels of video on a single server.

Point of view

The future VMS market requires not only the operation of the control center but also the role of the HUB.

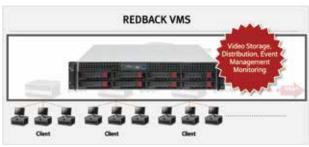




Acts as a pathway to quickly and conveniently connect the ever-growing 3rd-party solutions

02

Space efficiency of the control center needs to be improved due to the increase of physical servers.

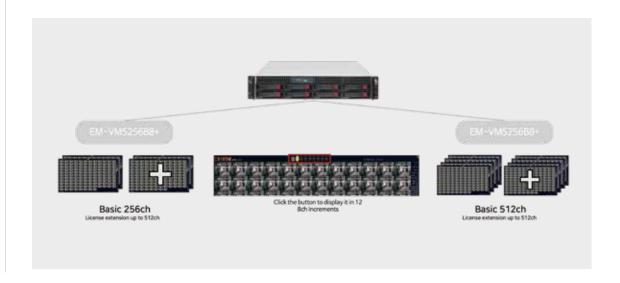


One server acts as a master, distribution, and storage server



2,600 channel image of server racks built on site.

Product Line-up



Feature









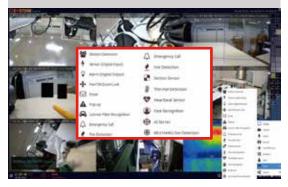
Main Function

The largest number of camera protocols from various manufacturers



- ▶ ONVIF / RTSP standard protocol default application
- ► Audio, motion, sensor input/output linkage by various manufacturers

Various solutions can be linked



► Solution integration and customization possible according to business purpose

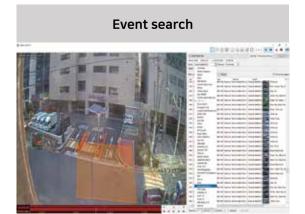
User management through fingerprint recognition mouse



► Biometrics function to restrict access of unregistered people and prevent password leakage



▶ Quick search by date/hour/minute



▶ Search by event situation



► Real-time live monitoring function for interlocked event occurrence

EMSTONE NVR Series is a recording device that can accommodate various channels and supports high-definition image processing based on integrated software. It supports video-based system integration through interworking with various 3rd party systems.

Product Information

LINUX-based PC NVR integrated monitoring solution



- ▶ Highly reliable 64-bit Linux-based NVR
- ► Support all resolutions including 12M / 8M / 5M / 2M / 1.3M
- ► ONVIF/RTSP standard protocol support
- \blacktriangleright Events such as motion / sensor / camera signal loss / disk error
- ▶ User authentication support using biometric information
- ► Two-way voice function support



- ► High-efficiency H.265 / H.264 compression method for clear image quality.
- ▶ Various recording modes such as motion detection / event / schedule
- ▶ Multi-user mode and screen lock support
- ► Support Failover system
- ► Model lineup: 4, 9, 16, 25, 36, 49, 64, 81, 100, 128, 64+, 128+ CH

Main Function

/ideo search



▶ Quick search by date/hour/minute

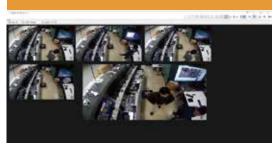
Event search The search of th

► Search by event situation



► Biometrics function to restrict access of unregistered people and prevent password leakage

Event live selection control



▶ Real-time live monitoring function for interlocked event occurrence

Various solutions can be linked

Solution integration and customization possible according to business purpose

- Motion Detection
- A Pop-up
- Section Sensor
- Al Server

- Sensor (Digital Input)
- License Plate Recognition
- Elevator

- Alarm (Digital Output)
- W Heartbeat Sensor
- Measuring Machine

- ♣ Pan/Tilt/Zoom Link
- Fire Detection
- Face Recognition
- ☐ E-mail

Al Camera Integration



We provide an intelligent integrated control solution that detects people, objects through intelligent camera image analysis, and applies an event based on the analysis result to respond immediately.

Al Box, Al Server Integration



Even for cameras that do not support AI, intelligent video analysis is provided for the corresponding channel video through the interworking of AI BOX and AI SERVER, and an integrated solution is provided through event linkage.

License Plate Recognition



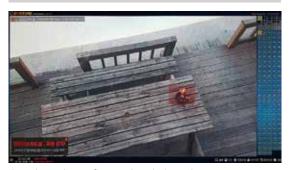
It is a solution to extract the vehicle number by analyzing the video input to the NVR in real time. Analysis, vehicle number storage, image storage, and information display are simultaneously performed and can be searched together with the image, and can be applied to various sites such as roads, urban security, and apartments.

Elevator CRT Integration



Integration with the elevator CRT system enables operating inform ation of the elevator to be displayed and saved on the screen, and by supporting search of the operating information of the elevator, the solution improves convenience by reducing the search time and provides accurate video analysis by displaying the intuitive operation information of live / search videos.

Flame / Smoke Detection



This solution detects flame and smoke by analyzing camera images in real time. A wide range of surveillance is possible, and users can quickly check whether there is a fire and respond to it through video in real time.

Emergency Call Integration



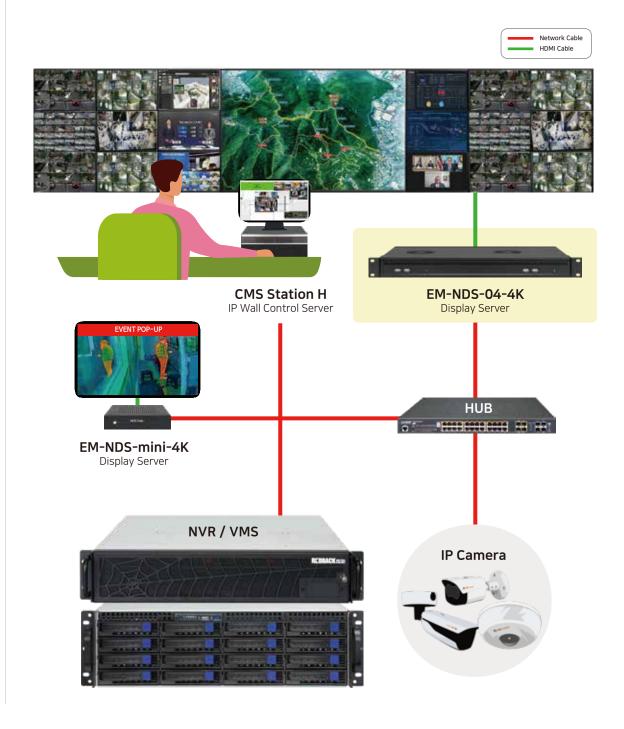
It is a solution that can be promptly delivered and responded to emergency call system through E-Map video pop-up and warning sound in case of emergency.

Smart IP Wall System is a solution that can be applied to all sites requiring integrated CCTV control.

Differences from other systems

Unlike other heavy server-type IP wall solutions, it is operated only with a light PC-based display server, so the configuration is simple, scalable, and has high stability

Diagram



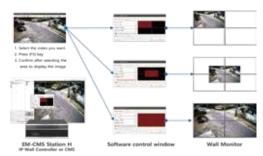
Feature

Simple and intuitive user interface

It supports IP Video Wall Control UI which can control set monitor layout and video preset with one click and reflect and display the currently displayed video in real time.



You can check the image to be displayed on the wall monitor with your own eyes, and anyone can easily operate it with a simple and intuitive configuration to display the desired image on the wall monitors.



Same performance support for scaling

Unlike the existing video wall system, which does not support expansion when adding a wall monitor or degrades after expansion, the system can be expanded by adding a display server and supports the same performance.



Support for multi-user and per-user permission settings

Multiple users can control the video wall at multiple control points, and each user can set the rights for wall monitor control and video control



Search the video by displaying the search box on the wall monitor

Unlike the existing video wall system that can only display real-time video or encoded video, video search is possible by displaying the search box linked to the recording device on the wall monitor.



IP Video Wall Event Integration Screen

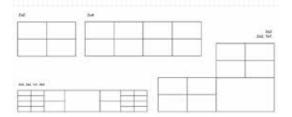
Event display function of NVR and linked system

When events occur in the NVR and the linked system, the wall monitor supports interlocking functions such as video popup, event message, image popup, and videowall preset operation.



Free monitor layout configuration

In addition to the regular horizontal and vertical arrays, both monitor combinations and atypical monitor arrays of different sizes are supported.



Video wall DID monitor control

You can power on/off the video wall DID monitor with one button, and control the brightness and connection method.



Main Product Line-up

Video Management System

REDBACK VMS Performance Series



Network Video Recoder

1U B2

■ 2UB8-E

3UB16-E

4UB24-E









Smart IP Wall

EM-NDS-mini Network Display Server







CMS Station H Central Monitoring Server



The largest number of camera protocols from various manufacturers



- ▶ ONVIF / RTSP standard protocol default application
- ▶ Audio, motion, sensor input/output linkage by various manufacturers

































Video Management System



Performance Series

REDBACK VMS



Specification

		EM-VMS256B8+				
	IP Camera	256CH	512CH			
Video Input	Max. License	up to 512CH	up to 1024CH			
CPU		intel i7(12Cores, up to 4.7GHz)				
RAM		DDR5 32GB DDR5 64GB				
SSD			שניים טיינים			
330	11	msATA SSD 120GB(OS, VMS)				
Display	Monitor output	2 x HDMI (4K60Hz)				
	Split screen	(1/2/4/6/7/9/10/13/16/25/36/49/64/81/100/128)				
Performance	Live/Play	FHD 64 channel simultaneous live/ play (Max 32Mp support for 1 camera)				
	Storage	Storage/Transmission of 128 FHD channels per HDD				
	Interface	2.5GbE 2ports and 10GbSFP+ 1port	2.5GbE 2ports and 10GbSFP+ 2port			
	Bandwidth	15Gbps	25Gbps			
Network	Simultaneous Access	1024(within network bandwidth)				
	Protocol	TCP/IP,UDP,DNS,DDNS,HTTP,NTP,RTP/RTCP,RTSP				
	Bandwidth Control	Auto, Manual				
	Mode	Continuous, Schedule, Event linkage				
Recording	Performance	Max CH x 4Mbps (up to Network Bandwidth of Storage System), CIF~32MP				
	Compression	H.265 / H.264 / MJPEG / MPEG4				
Search/ Play	Search Mode	Date / Time Calendar Search, Channel Bundle Search, Event Search				
	Play-Back Control	Forward / Reverse Playback (High Speed: x1 ~ x32, Low Speed: 1/4 ~ 1/2), Before	re / After Staff			
IP Camera	Resolution	CF~32M				
	Protocol	Supported ONVIF / RTSP and Axis / Sony / Panasonic / Hanwha / Truen / Dahua / HIKVISION etc., over 130+				
Operating System		Linux 64bit(Embedded)				
	Default	N/A				
	Available	Up to 8ea SATA type 3.5" HDDs (24TB HDD - Max 192TB, Surveillance / Enterprise Level)				
Storage	RAID(option)	Support for external RAID 0/1/5/6/50/60 for EM-JBOD24B connections (up to 2ea) (Enterprise Level HDD only, up to 1,152TB)				
	Non-RAID (option)	HBA for EM-JB0024B connections (up to 2ea) (Surveillance / Enterprise Level, Max 24TB x 24Bay x 2EA = 1,152TB)				
	SAN (FC,option)	HBA for SAN Storage connections (4G/8G/16G Single/Dual)				
	ISCSI (IP SAN)	Supported				
Back-up	Mode	Video (Multiple Channels, Time / Event Subtitle, Encryption), Still Image (Partial Mosaic supported)				
	File Format	MP4, JPG				
Event	Туре	Motion Detection, Sensor, Relay, Disk Failure, Camera Signal Loss / Recovery, Em Detection, Thermal Event, Intelligent Server Integration	ergency Call, LPR, POS, Elevator, Flame / Smoke Detection, Abnormal Sound			
	Action	Recording, Alarm, Camera pop-up, Warning message, Warning sound, E-mail, FTP, Preset				
	PC	Live, Search, Backup, Event Manager, E-Map, Multi-monitors, Pan/Tilt/Zoom Con	trol, NVR Setting			
Application	Web	Live, Pan / Tilt / Zoom for all channels				
	Mobile	iOS / Android Apps				
Security		Multi User Level, Biometric Authentication				
Failover		Supported				
Data/Time Synchronization		NTP timeserver, own NTP server function, self synchronization via GPS(option)				
Intelligent Solution	Built-in SW	EMSTONE video analysis Al-based flame/smoke detection 1 channel(Additional License Options)				
	External	E/L CRT system, EM-call system, LPR Camera, Flame/Smoke Detect system, Password management solution, Video export security system				
	Interworking Analysis Server	EMSTONE-AJ, Intellivix, NEXREAL, IVS, HanwhaVision, Truen, ITX, CHAJA, Neotech				
Operating Temp / Hu	midity	5°C~40°C / 0%~90%				
Power Supply / Curre	nt	SMPS 500W (input from AC100~240V 50/60Hz)				
Product Dimension ()		430.4(W) X 88.4(H) X 480(D)mm / 12kg (without HDD)				
	V x H x D) / Weight	570(W) X 175(H) X 710(D)mm / 15.5kg (without HDD)				



Performance Series

1UB2



Specification

Model		EM-04B2	EM-09B2	EM-16B2	EM-25B2	
Video input	IP Camera	4CH	9CH	16CH	25CH	
CPU		Dual Core 1.0GHz or Higher				
RAM		DDR4 4GB DDR4 16GB				
	Monitor output	1xHDMI / 1xVGA				
	Split screen	1/2/4	1/2/4/6/7/9	1/2/4/6/7/9/10/13/16	1/2/4/6/7/9/10/13/16/25	
Display	Performance (CH/fps)	12M(1CH/15fps) 8M(1CH/30fps) 5M(2CH/60fps) 1080P(4CH/120fps)	12M(1CH/30fps) 8M(2CH/60fps) 5M(4CH/120fps) 1080P(9CH/270fps)	12M(2CH/60fps) 8M(4CH/120fps) 5M(6CH/180fps) 1080P(16CH/480fps)	12M(3CH/90fps) 8M(4CH/120fps) 5M(6CH/240fps) 1080P(25CH/750fps)	
	Mode	Continuous, Schedu	ule, Event linkage			
Recording	Performance	Max. 500Mbps / CIF	~12MP			
	Compression	H.265 / H.264 / MP	EG4 / MJPEG			
0	Search Mode	Date / Time Calendar Search, Channel Bundle Search, Event Search				
Search/Play	Play-Back Control	Play forward / backward (fast:x1~x32, slow:1/4~1/2), Step forward / backward				
10.0	Resolution	CIF~12M				
IP Camera	Protocol	Supported IP Camera and ONVIF / RTSP				
Operating Syste	em	Linux 64bit(Embedded) / mSATA SSD 16GB(OS, NVR SW DISC)				
	Default	None				
Ctorono	Available	Up to 2ea 3.5" HDD can be installed (20TB HDD, available, up to 40TB capacity)				
Storage	RAID/External	Not Supported				
	Hot Swap	Hot Plug Supported				
Dools	Backup Mode	Video(multiple back up, date/time/event information display, encryption function support), still image(partial mosaic support)				
Back-up	File Format	MP4, JPG				
	PC	Live, Search, Backup, Event Manager, E-Map, Multi-Monitor, PAN / TILT / ZOOM Control, NVR Setting				
Application	Web	All Channel Live, PAN/TILT/ZOOM Control				
	Smart Phone	Provide iPhone / An	droid APP			
	Interface	10/100/1000 Base-Tx Ethernet (RJ45) - 1ea				
Network	Maximum User	1024 (within network bandwidth)				
	Protocol	TCP/IP, UDP, DNS, DDNS, HTTP, NTP, RTP/RTCP, RTSP				
Operating temper	erature / humidity	5°C~40°C / 0%~90%				
Power / Power	Consumption	DC12V 5A Adapter (AC100 ~ 240V 50/60Hz)				
Dimension (W >	(H x D)	430.0(W) X 44.5(H) X 249.5(D)mm				
Weight		3.66Kg(without HDD)				



Performance Series

2UB8-E



Specification

		EM-16B8-E				EM-128B8-E		
Video Input	IP Camera	16CH	25CH	36CH	64CH	128CH		
CPU	-	intel Celeron(5Cores, up	to 1.1GHz)	intel i5(12Cores, up to	4.4GHz)	,		
RAM		DDR5 16GB DDR5 32GB						
SSD		mSATA SSD 16GB(OS.						
-	Monitor output	2 x HDMI (4K60Hz)						
Display			(EM-16B8V2)+ 25	(EM-25B8V2)+ 36	(ma concents or	(1/2/4/6/7/9/10/13/16/25/36/49/		
	Split screen	(1/2/4/6/10/13/16)			(EM-36B8V2)+ 64	/81/100/128)		
Performance	Live/Play	FHD 16CH	FHD 25CH	FHD 36CH	FHD 64 channel simultaneous Is	e/ play (Max 32Mp support for 1 camera)		
	Storage	Storage/Transmission of 128 FHD channels per HDD						
	Interface	2.5GbE 2ports						
	Bandwidth	50bps						
Network	Simultaneous Access	1024(within network bandwidth)						
	Protocol	TCP/IP,UOP,DNS,DONS,HT	TP,NTP,RTP/RTCP,RTSP					
	Bandwidth Control	Auto, Manual						
	Mode	Continuous, Schedule, I						
Recording	Performance		Network Bandwidth of Storag	e System), CIF~32MP				
	Compression	H.265 / H.264 / MJPEG						
Search/	Search Mode	Date / Time Calendar S	earch, Channel Bundle Search	, Event Search				
Play	Play-Back Control	Forward / Reverse Playt	eack (High Speed: x1 - x32, L	ow Speed: 1/4 - 1/2), Before	/ After Staff			
IP Camera	Resolution	CIF~32M						
ir Camera	Protocol	Supported ONVIF / RTSP and Axis / Sory / Panasonic / Harwha / Truen / Dahua / HIKV/SION etc. over 130+						
Operating System	1	Linux 64bit(Embedded)						
	Default	N/A						
	Available	Up to 8ea SATA type 3.5" HDDs (24TB HDD - Max 192TB, Surveillance / Enterprise Level)						
	RAID(option)	Support for external RAID 0/1/5/6/50/90 for EM-JBC0024B connections (up to 2ea) (Enterprise Level HDD only, up to 1,1527B)						
Storage	Non-RAID (option)	HBA for EM-JBO024B connections (up to 2ks) (Surveillance / Enterprise Level, Max 24TB x 24Bay x 2(A = 1,152TB)						
	SAN (PC,option)	HBA for SAN Storage connections (4G/8G/16G Single/Dual)						
	ISCSI (IP SAN)	Supported						
	Mode	Video (Multiple Channels, Time / Event Subtitle, Encryption), Still Image (Partial Mosaic supported)						
Back-up	File Format	MP4, JPG						
Event	Type	Motion Detection, Sensor, Relay, Disk Failure, Camera Signal Loss / Recovery, Emergency Call, LPR, POS, Elevator, Flame / Smoke Detection, Abnormal Sound Detection, Thermal Event, Intelligent Server Integration						
Event	Action	Recording, Alarm, Camera pop-up, Warning message, Warning sound, E-mail, FTP, Preset						
	PC							
Application	Web	Live, Search, Backup, Event Manager, E-Map, Multi-monitors, Pan/Tilt/Zoom Control, NVR Setting Live, Pan / Tilt / Zoom for all channels						
	Mobile	iOS / Android Apps						
Security			Multi User Level, Biometric Authentication					
Failover		Supported						
Data/Time Synch	ronization	NTP timeserver, own NTP server function, self synchronization via GPS(option)						
Danie Time Officer	Built-in SW				s)			
Intelligent	External	EMSTONE video analysis Al-based flame/smoke detection 1 channel(Additional License Options) E/L CRT system, EM-call system, LPR Camera, Flame/Smoke Detect system, Password management solution, Video export security system						
Solution	Interworking Analysis Server		REAL, IVS, HanwhaVision, Truen, I					
Operating Temp / He		5°C~40°C / 0%~90%						
Power Supply / Curn		SMPS 500W (input from AC	100~240V 50/60Hz)					
Product Dimension (W x		430.4(W) X 88.4(H) X 480(I						
	H x D) / Weight	570(W) X 1750H) X 710(D)n						

Performance Series

3UB16-E



Specification -

Video Input	IP Camera	36CH	64CH	128CH	
CPU		intel i5(12Cores, up to 4.4GHz)			
RAM		DDR5 32GB			
SSD		mSATA SSD 16GB(OS, NVR)			
	Monitor output	2 x HDMI(4K60Hz)			
Display	Split screen	(1/2/4/6/7/9/10/13/16/25/36)	(1/2/4/6/7/910/13/16/25/36/49/64)	(1/2/4/6/7/9/10/13/16/25/36/49/64/81/100/126)	
	Live/Play	FHD 36CH	FHD 64CH	į.	
Performance	Storage	Storage/Transmission of 128 FHD channels of	er HDD		
	Interface	RJ45 2.5GbE 2ports			
	Bandwidth	5Gbps			
Network	Simultaneous Access	1024(within network bandwidth)			
	Protocol	TCP/IP,UDP,DNS,DDNS,HTTP,NTP,RTP/RTC	P,RTSP		
	Bandwidth Control	Auto, Manual			
	Mode	Continuous, Schedule, Event linkage			
Recording	Performance	Max CH x 4Mbps (up to Network Bandwidth o	f Storage System), CIF~32MP		
	Compression	H.265 / H.264 / MJPEG / MPEG4			
	Search Mode	Date / Time Calendar Search, Channel Bundl	e Search, Event Search		
Search/ Play	Play-Back Control	Forward/Reverse Playback (High Speed: x1~x32, Low Speed: 1/4~1/2), Before / After Staff			
	Resolution	CIF-32M			
IP Camera	Protocol	Supported ON/F / RTSP and Axis / Sony / Panasonic / Harwha / Truen / Dahua / HKVISION etc. over 130+			
Operating System	11010001	Linux 64bit(Embedded)			
	Default	N/A			
	Available	Up to 16ea SATA type 3.5" HDDs (24TB HDD - Max 384TB, Surveillance / Enterprise Level)			
	RAID(option)	Support for external PAID 0/1/5/6/50/60 for EM-JB00248 connections (up to 2ea) (Enterprise Level H00 only, up to 1,15278)			
Storage	Non-RAID (option)	HBA for EM-JBQQ24B connections (up to 2ea) (Surveillance / Enterprise Level, Max 2418 x 248sy x 2EA = 1,15218)			
	SAN (FC,option)	HBA for SAN Storage connections (4G/8G/16G Single/Dual)			
	ISCSI (IP SAN)	Supported			
	Mode	Video (Multiple Channels, Time / Event Subtitle, Encryption), Still Image (Partial Mosaic supported)			
Back-up	File Format	MP4, JPG			
	Type	Motion Detection, Sensor, Relay, Disk Failure, Carriera Signal Loss / Recovery, Emergency Call, LPR, POS, Elevator, Flame / Smoke Detection, Abnormal Sound Detection,			
Event		Thermal Event, Intelligent Server Integration			
	Action		message, Warning sound, E-mail, FTP, Preset	W	
******	PC	Live, Search, Backup, Event Manager, E-Map, Multi-monitors, Pan/Titt/Zoom Control, NVR Setting			
Application	Web	Live, Pan / Tilt / Zoom for all channels			
Consider	Mobile	IOS / Android Apps			
Security		Multi User Level, Biometric Authentication			
Failover	- 47	Supported			
Data/Time Synchronization		NTP timeserver, own NTP server function, self synchronization via GPS(option)			
Intelligent Solution	Built-in SW	EMSTONE video analysis Al-based fiame/smoke detection 1 channel(♦ Additional License Options)			
	External	E/L CRT system, EM-call system, LPR Camera, Flame/Smoke Detect system, Password manageme	nt solution, Video export security system		
Interworking Analysis Server		EMSTONE-AI, Intellivix, NEXREAL, IVS, Harwhol/Ision, Truen, ITX, CHAJA, Neotech			
Operating Temp / Hum	nidity	5 C~40 C / 0%~90%			
Power Supply / Curren	t	SMPS 500W (input from AC100 ~ 240V 50/60Hz)			
Product Dimension (W x H	(x D) / Weight	430.4(W) X 133.4(H) X 550(D)mm /14.6kg (v	vithout HDD)		
Packing Dimension(W x H	x D) / Weight	570(W) X 225(H) X 765(D)mm /20.3kg (without	ut HDD)		

Performance Series

4UB24-E



Specification -

		EM-36B24V2	EM-64B24V2	EM-128B24V2			
Video Input	IP Camera	36CH	64CH	128CH			
CPU		intel i5(12Cores, up to 4.4GHz)					
RAM		DDR5 32GB					
SSD		mSATA SSD 16GB(OS, NVR)					
	Monitor output	2 x HDMI(4K60Hz)					
Display	Split screen	(1/2/4)6/7/9/10/13/16/25/36)	(1/2/4/6/7/010/13/16/25/36/40/64)	(1/2/4/6/7/9/10/13/16/25/36/49/64/81/100/128)			
	Live/Play	FHD 36CH	FHD 64CH				
Performance	Storage	Storage/Transmission of 128 FHD channels per HDD					
	Interface	RJ45 2.5GbE 2ports					
	Bandwidth	5Gbps					
Network	Simultaneous Access	1024(within network bandwidth)					
	Protocol	TCP/IP, UDP, DNS, DDNS, HTTP, NTP, RTP/RTCP, RTSP					
	Bandwidth Control	Auto, Manual					
	Mode	Continuous, Schedule, Event linkage					
Recording	Performance	Max CH x 4Mbps (up to Network Bandwidth	of Storage System), CIF~32MP				
	Compression	H.265 / H.264 / MJPEG / MPEG4					
Count /	Search Mode	Date / Time Calendar Search, Channel Bund	die Search, Event Search				
Search/ Play	Play-Back Control	Forward/Reverse Playback (High Speed: x1-	-x32, Low Speed: 1/4~1/2), Before / After Staff				
	Resolution	CIF~32M					
IP Camera	Protocol	Supported ONVIF / RTSP and Axis / Sony / Panaso	Supported ONVIF / RTSP and Axis / Sony / Panasonic / Hanwha / Truen / Dahua / HIKVISION etc. over 130+				
운영체제		Linux 64bit(Embedded)					
	Default	N/A					
	Available	Up to 24ea SATA type 3.5' HDDs (24TB HDD - Max 576TB, Surveillance / Enterprise Level)					
	RAID(option)	Support for external RAID 0/1/5/6/60/f0 for EM~JB0024B connections (up to 2ea) (Enterprise Level HDD only, up to 1,1527B)					
Storage	Non-RAID (option)	HSA for EM-JBC024B connections (up to 2ea) (Surveillance / Enterprise Level, Max 24TB x 24Bay x 2EA = 1,152TB)					
	SAN (FC,option)	HBA for SAN Storage connections (4G/8G/16G Single/Dual)					
	ISCSI (IP SAN)	Supported					
	Mode	Video (Multiple Channels, Time / Event Subt	itle, Encryption), Still Image (Partial Mosaic suppor	rted)			
Back-up	File Format	MP4, JPG					
Event	Туре	Motion Detection, Sensor, Relay, Disk Failure, Cam Detection, Thermal Event, Intelligent Server Integral	era Signal Loss / Recovery, Emergency Call, LPR, POS, Eli ion	evator, Flame / Smoke Detection, Abnormal Sound			
	Action	Recording, Alarm, Camera pop-up, Warning	message, Warning sound, E-mail, FTP, Preset				
	PC	Live, Search, Backup, Event Manager, E-Ma	ap, Multi-monitors, Pan/Tilt/Zoom Control, NVR Se	etting			
Application	Web	Live, Pan / Tilt / Zoom for all channels					
	Mobile	iOS / Android Apps					
Security		Multi User Level, Biometric Authentication					
Failover		Supported					
Data/Time Synchroniz	ration	NTP timeserver, own NTP server function, self synchronization via GPS(option)					
	Built-in SW	EMSTONE video analysis Al-based flame/smoke detection 1 channel(Additional License Options)					
Intelligent Solution	External	E/L CRT system, EM-call system, LPR Camera, Flame/Smoke Detect system, Password management solution, Video export security system					
	Interworking Analysis Server	EMSTONE-AI, Intellivix, NEXREAL, NS, HarwheVisi	on, Truen, ITX, CHAJA, Neotech				
Operating Temp / Hur	midity	5°C~40°C / 0%~90%	5°C~40°C / 0%~90%				
Power Supply / Currer	nt	SMPS 1200W (input from AC100 ~ 240V 5	0/60Hz)				
Product Dimension (W x)	H x D) / Weight	430.4(W) X 175.4(H) X 550(D)mm /17.5kg	430.4(W) X 175.4(H) X 550(D)mm /17.5kg (HDD without)				
Packing Dimension(W x H	1 x D) / Weight	570(W) X 270(H) X 765(D)mm /23.3kg (HD	D without)	570(W) X 270(H) X 765(D)mm /23.3kg (HDD without)			

Smart IP Wall

Network Display Server

NDS-04-4K



Specification

Model		EM-NDS-04-4K	
	Output	4 of HDMI ports	
Monitor	Output Performance	Full-HD Monitor Display - up to 4ea Ultra HD Monitor Display - up to 4ea	
Video output	Full-HD Monitor	D1(720x480): 4 x 1,920fps HD(1280x720): 4 x 960fps Full HD(1920x1080): 4 x 480fps Ultra HD(3840x2160): 4 x 120fps	
Performance	Ultra HD Monitor	D1(720x480): 4 x 1,920fps HD(1280x720): 4 x 960fps Full HD(1920x1080): 4 x 480fps Ultra HD(3840x2160): 4 x 120fps	
Operating System		Linux 64bit (Embedded)	
CPU		2ea Quad Core 2.4GHz or Higher	
RAM		DDR4 32G RAM	
VGA		Integrated Graphic(Intel® Iris® Xe Graphic)	
Disk		M.2 SSD 32G	
Naturali	Interface	4ea of 1/2.5Gbps Ethernet (RJ45)	
Network	Bandwidth Control	Auto	
Operating Temp	/ Humidity	0°C~40°C / 0%~90%	
Power Supply / C	urrent	2ea of DC12V 5A	
Dimension (W x H	H x D)	430.0(W) x 45.0(H) x 248.0(D) mm	
Weight		Approx. 2.98Kg	

* The specification of this product may change without prior notice

Smart IP Wall



Network Display Server

NDS-mini-4K



Specification

Model		EM-NDS-mini-4K	
	Output	1 of HDMI	
Monitor	Output Performance	Full-HD Monitor Display - up to 1ea(60Hz) Ultra HD Monitor Display - up to 1ea(60Hz)	
Video output	Full-HD Monitor	D1(720x480): 1,920fps HD(1280x720): 960fps Full HD(1920x1080): 480fps Ultra HD(3840x2160): 120fps	
Performance	Ultra HD Monitor	D1(720x480): 1,920fps HD(1280x720): 960fps Full HD(1920x1080): 480fps Ultra HD(3840x2160): 120fps	
Operating System		Linux 64bit (Embedded)	
CPU		Dual Core 1.8GHz or Higher	
RAM		DDR4 16G RAM	
VGA		Integrated Graphic	
Disk		SSD mSATA 16G	
Maharada	Interface	2ea of 1/2.5Gbps Ethernet (RJ45)	
Network	Bandwidth Control	Auto	
Operating Temp / H	Humidity	0°C~40°C / 0%~90%	
Power Supply / Cur	rent	DC12V 5A	
Dimension (W x H x	(D)	185.0(W) x 45.0(H) x 197.5(D) mm	
Weight		Approx. 1.04Kg (without VESA Mount)	

Smart IP Wall



Central Monitoring Server

CMS Station H



Specification

Model		EM-CMS Station H		
CMC Version	Default	CMS Basic Version (8 Host)		
CMS Version	Options	16/64/128/512/1024 Host		
Operating System		Ubuntu 22.04 with modified Linux Kernel, OpenGL and X-Windows		
CPU		Intel Dual Core 1.8Hz		
RAM		DDR4 16G RAM (8Gx2ea)		
VGA		Integrated Graphic (included 48 Execution Unit)		
Disk		M.2 SSD 128G		
	Monitor Output	2xHDMI(up to 4K 60Hz support)		
Display	Mode	Various display mode and full screen mode like 1x1, 1x2, 2x1, 2x2, 3x3		
	Performance	Full HD 32CH Decoding, Up to 8K(7680x4320) Decoding		
0	Method	Date / Time Calendar Search, Individual / Channel Bundle Search, Event Search		
Search/Replay	Replay Control	Forward direction (high speed:x1~x32), Step forward / backward		
Dealine	Mode	Video, Still Image		
Backup	File Format	MP4, JPG, Encrypted Backup		
Video Wall		EMSTONE IP Video Wall System Setup / Control		
Event	Туре	Motion Detection, Sensor, Relay, Disk Failure, Camera Signal Loss / Recovery, Emergency Bell, License Plate Recognition, POS, Elevator CRT, Fire / Smoke Detection, Abnormal Sound Detection, Thermal Imaging Camera		
	Action	Alarm Digital-out, Pop-up Camera, Alarm Sound, Warning Message, Preset Control, IP Video Wall Control (Video / Image / Text Output Control, Preset)		
Makwadi	Interface	1/2.5Gbps Ethernet (RJ45) -2ea		
Network	Bandwidth Control	Automatic, Manual		
Operating tempera	ture / humidity	5°C~40°C / 0%~90%		
Power / Power Co	onsumption	DC12V 5A		
Dimension (W x H	I x D)	224.0(W) X 88.8(H) X 200.0(D)mm		
Weight		Approx. 2.7Kg		

Camera

5MP Sound Detection Dome Type Camera

EM-IQD(F21P)



Specification

모델명		EM-IQD(F21P)
	Image Sensor	1/2.7" 5Megapixel progressive CMOS
	Max. Resolution	2880 x 1620 pixel
Camera	Electronic Shutter Speed	1/3 sec ~ 1/10,000sec
	Min. Illumination	0.006Lux@F2.1 (Color), 0.01Lux@F2.1 (B/W)
	Lens Type	Fixed
Lens	Focal Length	2.1mm
	Field of View	H: 140° / V: 79°
	Video Compression	H.265 / H.264
Video	Video Frame Rate	30 fps for 1080p/720p/D1/CIF 30 fps for 4M(2560 x 1440) 16:9 30 fps for 5M(2880 x 1620) 16:9
	Day/Night	Auto / Day / Night(ICR)
Function	BLC/HLC/WDR	Yes
runction	White Balance	Auto/Manual
	IVS	Motion detection, Video Shelter, Line Crossing, Area Intrusion, Region Entrance, Region Exiting, Fast Moving
Audio	Sound Detection	Yes
	Interface	RJ-45 (10/100 Base-T)
Network	Protocol	TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,DDNS,RTP,RTSP,RTCP,NTP,IGMP,UPnP,SMTP,UPnP-TM,P2P
Network	Interoperability	ONVIF(Profile S)
	User/Host	10
Power	Power Supply	12V DC/PoE (802.3af)
Environment	Operating Conditions	-30°C to +60°C /less than ≤ 95% RH
Environment	Protection	IP67, IK10
Structure	Dimensions	112 mm × 87.5 mm

Camera



5MP Bullet Type Parrot Camera

EM-IQV(14W5Z)



Specification

모델명		EM-IQV(14W5Z)
	Image Sensor	1/2.8" 5Megapixel progressive CMOS
Camera	Electronic Shutter Speed	1 sec ~ 1/10,000sec(60/30 mode) 1 sec ~ 1/10,000sec(50/25mode)
	Min. Illumination	0.05Lux (Color), 0.01Lux(B/W), 0 Lux (IR)
	Illumination Distance	30 m
	Lens Type	Motorized
Lens	Focal Length	2.7 ~ 13.5mm, F1.6 ~ F2.8
	Field of View	101.9'(W) ~ 33.1'(T)
Midaa	Video Compression	H.265 / H.264 / MJPEG
Video	Video Frame Rate	Max. 30 fps for 5M/4M/1080P/720P/D1
	Day/Night	Auto / Day / Night(ICR)
	BLC/HLC/WDR	Yes
Function	White Balance	Auto/Indoor/Outdoor/Manual
	IVS	SMD - Human , Car detection, Line Cross , Region Entrance, Region Exiting, Area Intrusion, Scene change, De-focus detection
Audio	Audio Compression	G.711 A-law, G.711 μ-law, 128kbps, sampling rate 8kHz
Audio	Speaker	14W 6Ω
	Interface	RJ-45 (10/100 Base-T)
Network	Protocol	IPv4, TCP/IP, UDP, RTP, RTSP, RTMP, NTP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP
Network	Interoperability	ONVIF(Profile S)
	User/Host	10
Power	Power Supply	DC12V 2A / PoE
Forders	Operating Conditions	-30°C to +50°C /less than ≤ 95% RH
Environment	Protection	IP66
Chrysters	Dimensions	190 mm × 233 mm × 125
Structure	Net Weight	2.1kg

Camera

5MP PTZ Type Parrot Camera

EM-IQP(14W5Z)



Specification

모델명		EM-IQP(14W5Z)
	Image Sensor	1/2.8" 5Megapixel progressive CMOS
Camera	Electronic Shutter Speed	1 sec ~ 1/10,000sec(60/30 mode) 1 sec ~ 1/10,000sec(50/25mode)
	Min. Illumination	0.05Lux (Color), 0.01Lux(B/W), 0 Lux (IR)
	Illumination Distance	30 m
	Lens Type	Motorized
Lens	Focal Length	2.7 ~ 13.5mm, F1.6 ~ F2.8
	Field of View	101.9'(W) ~ 33.1'(T)
	Pan/Tilt Radius	Pan: 360° (Endless) / Tilt : -40° ~ +45°
PTZ	Pan/Tilt Speed	Pan: 0.1*~ 90*/sec / Tilt : 0.1* ~ 20*/sec
PIZ	Preset	256
	Group	8 Groups (Max. 16 presets)
VEdon	Video Compression	H.265 / H.264 / MJPEG
Video	Video Frame Rate	Max. 30 fps for 5M/4M/1080P/720P/D1
	Day/Night	Auto / Day / Night(ICR)
	BLC/HLC/WDR	Yes
Function	White Balance	Auto/Indoor/Outdoor/Manual
	IVS	SMD - Human , Car detection, Line Cross , Region Entrance, Region Exiting, Area Intrusion, Scene change, De-focus detection
Audio	Audio Compression	G.711 A-law, G.711 µ-law, 128kbps, sampling rate 8kHz
Audio	Speaker	14W 6Ω
	Interface	RJ-45 (10/100 Base-T)
Makaada	Protocol	IPv4, TCP/IP, UDP, RTP, RTSP, RTMP, NTP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP
Network	Interoperability	ONVIF(Profile S)
	User/Host	10
Power	Power Supply	DC12V 3.5A / PoE
Environment	Operating Conditions	-30°C to +50°C /less than ≤ 95% RH
Environment	Protection	IP66
Ctoucture	Dimensions	190 mm × 233 mm × 125
Structure	Net Weight	3.3kg

 $\ensuremath{\mbox{\ensuremath{\mbox{\sc W}}}}$ The specification of this product may change without prior notice.

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