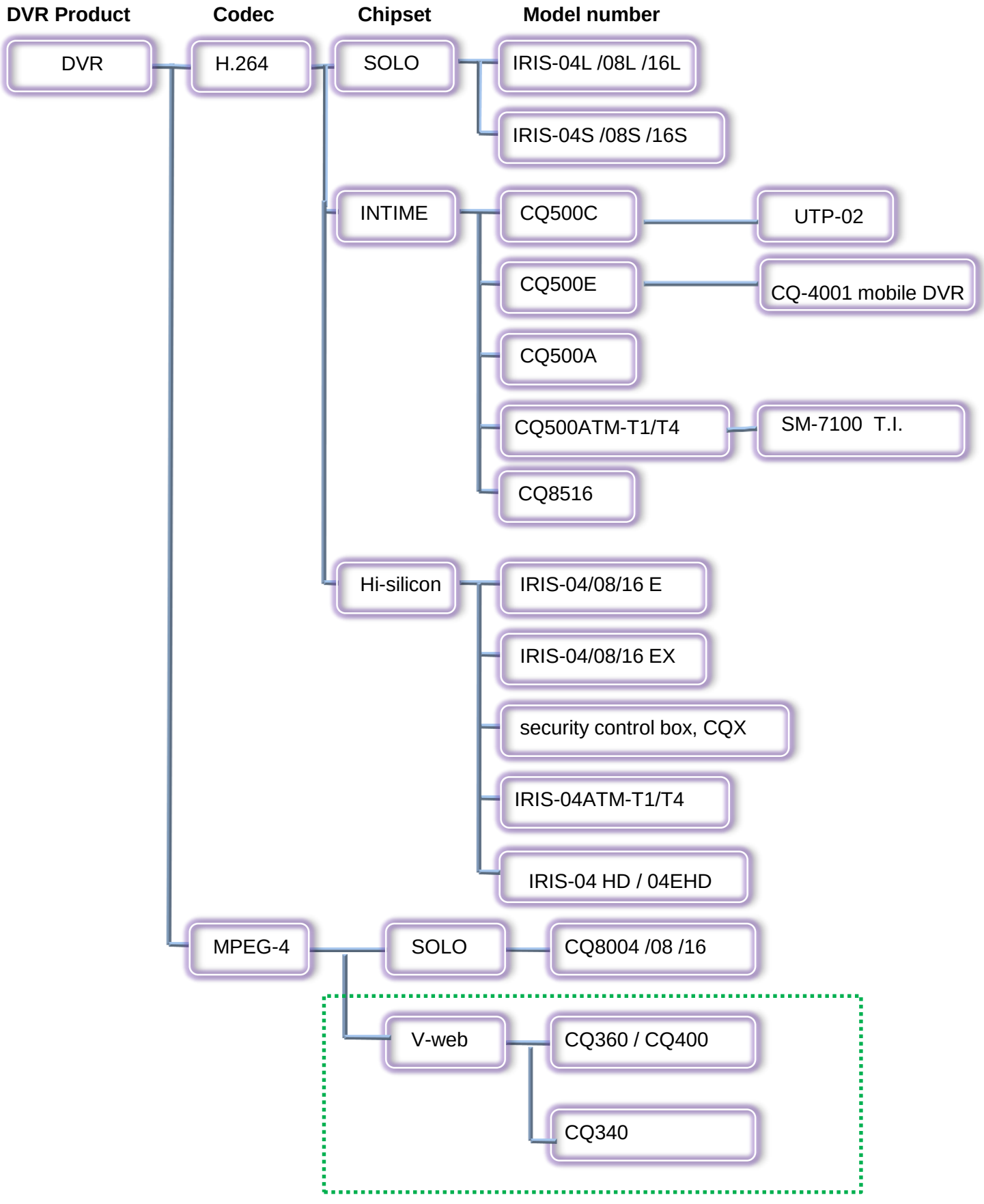
SM DVR Product Tree



SM DVR Product Tree

Remote program

Remote PC program (windows installer) **Mobile viewer**

NDMS (64ch viewer) H.264 DVR series

CQ -500 series	CQ-8516	IRIS Viewer	i-phone
CQ-500 ATM series		CQ Viewer	Android

CMS (64ch viewer) Net-viewer (16ch viewer) H.264 DVR series

IRIS – L series	IRIS- S series	IRIS Viewer	i-phone
IRIS – 04L,08L,16L	IRIS – 04S,06S,16S	CQ Viewer	Android

CMS (64ch viewer) Net-viewer (16ch viewer) MPEG4 DVR series

CQ – 8004L	CQ-8008L	IRIS Viewer	i-phone
CQ-8016		CQ Viewer	Android

Vehicle viewer

CQ-4001A	CQ-4001 H

New NDMS2 (unlimited CH viewer)

IRIS -E series	IRIS- EX series	IRIS Viewer	i-phone
IRIS – ATM series	Security Control box	CQ Viewer	Android
IRIS – L series	IRIS – S series		
IRIS – HD series			

Sunmyung DVR Specification Table

Model	CQ-04/08X	CQ80xx	CQ500C	CQ500E	CQ500A	CQ8516
Firmware			cq500_1390_080716.zip			CQ8516.zip
Manual		MPEG4 CQ8016 manual_ENG	CQ500_User_Manual_KOR_(통합) CQ500_User_Manual_ENG_(통합)			CQ8516_User_Guide_KOR CQ8516_User_Guide_ENG
Short Form		CQ8016_Short Form_kor CQ8016_Short Form_eng	CQ500C_DVR Short form_kor CQ500C_DVR Short form_eng	CQ500E_short form_eng		CQ8516_Short Form_eng
Remote PC Program	NDMS Installer.zip					
Manual	NDMS manual_KOR NDMS v2.0.4 (ENG)					
Mobile Program	iPhone : CQ Viewer, Android : IRIS 2 viewer					









Sunmyung DVR Specification Table

Model	IRIS-04HD	IRIS-04EHD	IRIS-04ATM-T1	IRIS-04ATM-T4	IRIS_xxL	IRIS_xxS
Firmware	OEM_MB9204_V2.0_4a_4i_1o_4d_F16M_D2G_2G_UI_NEW_2013-12-27_2.0.0.77_RELEASE_v3_2_p2p_	dvr_720sdi_201312.27_3.12.27.4	IRIS2.zip		IRIS_64ch_h264_Viewer_Release_v100.zip IRIS_16ch_h264_Viewer_Release_v111.zip	
Manual		IRIS_04EHD_Manual_kor,eng	IRIS_04ATM_Manual_kor IRIS_04ATM_Manual_eng		IRIS_xxL_Manual_eng	IRIS_xxS Manual_eng
Short Form					IRIS-16L_Short Form_kor IRIS-16L_Short From_Eng	IRIS-S_Short form_kor IRIS-S_Short form_eng
Remote PC Program	ClientV3	ClientSetup_EN_720p	NDMS_2_1_42.zip		iris_16ch_Netviewer_only_Release.zip iris_64ch_h264_Viewer_Release_v100_9.zip	
Manual	DVR_manual_eng_V3.04	DEV Client manual_kor,eng	new_NDMS2 v3.0.0(kor) new_NDMS2 v3.0.0(eng)		IRIS_L_S_remote_Manual_eng	
Mobile Program	iPhone, Android : ASee+	iPhone, Android : P2P CamLive	iPhone, Android : IRIS Viewer			







Sunmyung DVR Specification Table

Model	IRIS-04/08/16EX	IRIS-04/08/16E	IRIS-04/08/16E1
Firmware	IRIS2.zip		IRIS_E1.zip
Manual	IRIS_04EX_Manual_kor IRIS_04EX_Manual_eng	IRIS_04E_Manual_kor IRIS_04E_Manual_eng	IRIS_04E1_Manual_kor IRIS_04E1_Manual_eng
Short Form			
Remote PC Program	NDMS_2_1_42.zip		
Manual	new_NDMS2 v3.0.0(kor) new_NDMS2 v3.0.0(eng)		
Mobile Program	iPhone, Android : IRIS Viewer		iPhone, Android : IRIS 1 viewer









IRIS-L series H.264 STAND-ALONE N/W DVR



Front View



IRIS Viewer (Smart Phone Android & iOS)

Features

- Stable 2 chip solutions of H.264 H/W compression
- Pentaplex function(Live Display / Recording / Playback / Backup / Remote access)
- **Video Output with High Resolution(1920x1080)**
- **480/400 Live Display, 480/400FPS Recording for CIF , 120/100FPS Recording for full D1**
- **Multi Video Output: HDMI, VGA, Composite, Call Monitor**
- Alarm triggering screen (Tips, buzzer, PTZ preset, e-mail)
- CMS for remote Live Monitoring, Recording, Playback
- **RAID 0 (Extended) / RAID 1 (Mirrored) function support**
- **4 S-ATA HDD (Max 6 TB storages and CD/DVD RW)**
- **Upgraded GMT / Support Digital Zoom Function**
- **Support Dyn DNS service & add private server optional**

Rear View



Specification			IRIS-04L	IRIS-08L	IRIS-16L
System	Video Input /Loop out		4 /4 BNC	8/8 BNC	16/16 BNC
	Video Output		1 BNC TV output, 1 VGA output, S-Video, SPOT, HDMI		
	Video Signal		NTSC or PAL		
	O.S.		Embedded Linux		
	Pentaplex		Live Display, Recording, Playback, Backup, & Remote access		
	Control Device		Front panel, Mouse, IR Remote control		
	Compression		H.264 H/W Compression (Soft-logic Codec + Intel CPU)		
Video	Video Resolution		720X480 ~ 1920 x 1080		
	Video Recording (NTSC/PAL)	CIF	120 / 100	240 / 200	480 / 400
		HD1	120/100	240 / 200	240 / 200
		D1	**120 / 100**	**120 / 100**	**120 / 100**
	Video Display split		1 / 4	1 / 4 / 9	1 / 4 / 9 / 16
Audio	Audio Input		4CH	8CH	16CH
	Audio Output		2 CH, RCA		
Motion & Alarm	Motion Detection		Motion Detection with Notification		
	Alarm Input		4CH	8CH	16CH
	Relay Output		4 OUT	4 OUT	4 OUT
Storage	HDD		SATA x 3ea		
	ODD		CD/DVD RW (SATA) x 1ea		
Record, PlayBack& Back up	Recording mode		Manual, Continuous, Video Detection(Motion, video loss), Sensor		
	Function		Watermark, Pre-recording		
	Search mode		Time/Date, Event(Sensor, Alarm, Video loss)		
	Playback		Quick Search, Live Search, Calendar Search, Time Search		
	Back up		USB memory stick / USB external HDD / CD/DVD-RW		
Network & CMS	Network Function		TCP/IP, DHCP, DDNS, PPPOE, E-mail		
	CMS		Net/Web Client, Live Streaming, Remote Playback,		
	NDMS (Optional)		Multi view(max.64CH), Multi access (max. 256DVR), E-map, Multi-monitor		
Auxiliary Interface	Communication Port		RS232, RS485, Ethernet, 2 USB (Front: 2)		
Weights & Measures	Dimension		430(W) x 338(D) x 90(H)mm		
	Weight		5.8KG (without HDD)		
Power	Source		12VDC		
	Consumption		56W Max.		

IRIS-S SERIES H.264 STANDALONE DVR(Compact Size)



Front View



IRIS Viewer (Smart Phone Android & iOS)

Features

- Stable 2 chip solutions of H.264 H/W compression
- Pentaplex function(Live Display / Recording / Playback / Backup / Remote access)
- **Video Output with High Resolution(1920x1080)**
  480/400 Live Display, 480/400FPS Recording for CIF ,
  120/100FPS Recording for full D1
- **Multi Video Output: HDMI, VGA, Composite, Call Monitor**
- Alarm triggering screen (Tips, buzzer, PTZ preset, e-mail)
- CMS for remote Live Monitoring, Recording, Playback
- **RAID 0 (Extended) / RAID 1 (Mirrored) function support**
- **4 S-ATA HDD (Max 8 TB storages)**
- **Upgraded GMT / Support Digital Zoom Function**
- **Support Dyn DNS service & add private server optional**

Rear View



Specification			IRIS-04S	IRIS-08S	IRIS-16S
System	Video Input		4 BNC	8 BNC	16 BNC
	Video Output		1 BNC, 1 VGA, 1 HDMI	1 BNC , 1 VGA, 1 S-Video, 1 HDMI	
	Video Signal		NTSC or PAL		
	O.S.		Embedded Linux		
	Pentaplex		Live Display, Recording, Playback, Backup, & Remote access		
	Control Device		Front panel, Mouse, IR Remote control		
	Compression		H.264 H/W Compression (soft-logic codec + Intel CPU)		
Video	Video Resolution		720X480 ~ 1920x1080		
	Video Recording (NTSC/PAL)	CIF	120 / 100	240 / 200	480 / 400
		HD1	120/100	240 / 200	240 / 200
		D1	**120 / 100**	**120 / 100**	**120 / 100**
	Video Display split		1 / 4	1 / 4 / 9	1 / 4 / 9 / 16
Audio	Audio Input		4CH	8CH	16CH
	Audio Output		1 CH, RCA		
Motion & Alarm	Motion Detection		Motion Detection with Notification		
	Alarm Input		4CH	8CH	16CH
	Relay Output		4 OUT	4 OUT	4 OUT
Storage	HDD		**Up to 4 S-ATA HDD disks**		
	USB CD R/W Rom		USB DVD R/W Rom Support		
Record, PlayBack& Back up	Recording mode		Manual, Continuous, Video Detection(Motion, video loss), Sensor		
	Function		Watermark, Pre-recording		
	Search mode		Time/Date, Event(Sensor, Alarm, Video loss)		
	Playback		Quick Search, Live Search, Calendar Search, Time Search		
	Back up		USB memory stick / USB external HDD		
Network & CMS	Network Function		TCP/IP, DHCP, DDNS, PPPOE, E-mail		
	Remote Feature		Net/Web Client, Live Streaming, Remote Playback, E-MAP,		
	NDMS (Optional)		Multi view(max.128CH), Multi access (max. 256DVR), E-map, Dual-monitor		
Auxiliary Interface	Communication Port		RS232, Ethernet, 2 USB (Front: 2)		
Weights & Measures	Dimension		272(W) x 334(D) x 90(H)mm		
	Weight		3.5KG (without HDD)		
Power	Source		DC12V, 5A		
	Consumption		48W Max.		

New Cost Effective H.264 Network DVR

CQ500C



Front View

Features

- **H.264 Video Compression**
- Half-D1, 120Fps Real-time Live/ Recording/ Network Streaming (Triplex)
- User friendly Graphic Icon Menu
- Front & Rear USB 2.0 port (Mouse / Backup/ Update S/W)
- NDMS(Remote Viewer for multi-access)
- S-ATA HDD
- **Cost effective Model**



CQ Viewer (Smart Phone Android & iOS)

Rear View



Specification		CQ500C	CQ500A	CQ500E
System	O.S.	Embedded Linux 2.6		
	Multiplex	Sixfold operation – simultaneous record,live,playback,backup,control & remote access		
Video	Format	NTSC or PAL (auto detect)		
	Input	4 BNC or 4 UTP	4 BNC	4 BNC
	Output	1 RCA, 1 VGA, 1 S-VIDEO		
Audio	Input	4 RCA-jack connectors		
	Output	1 RCA-jack connector		
Record	Compression	H.264 (In-time System On Chip)		
	Frame rate (fps) & Resolution	NTSC-60/720*480, 120/720*240,240/360*240 PAL-50/720*576,100/720*288,200/360*288		
Display	Resolution	1280*1024 SVGA	720*480 VGA	720*480 VGA
	Frame rate (fps)	120(NTSC)/100(PAL)	120(NTSC)/100(PAL)	120(NTSC)/100(PAL)
	Digital Zoom	X2,X3,X4,X5		
Playback	Search	Date/time(Calender),Camera,Sensor,Motion,Video Loss(Event)		
	Operation	Play, Fast Forward(x2~x8), Bankward(x1~x8), Pause, Backup,capture		
Storage	HDD	2 HDD (max,1TB), SATA		1 HDD, SATA
	Backup	2 ports for USB 2.0 disk drives		
Alarm	Input	4 contact or TTL/COMS signal, polarity selectable		
	Output	1~4 relay output		
	Triggered by	Sensor input, Video loss & Motion		
Network	Web(http)	Remote setup, monitoring, & alarm notification & remote software upgrade		
	Protocol	TCP/IP, HTTP,DHCP,DDNS,FTP		
Control	Local	Keypad, I/R remote controller, USB Mouse		
	Remote	Setup & upload via Windows application sofrware		
Weights & Measures	Dimension	215(W)×280(D)×72(H)mm		**215(W)×280(D)×45(H)mm**
	Weight	2.3 KG (without HDD)	2.3 KG (without HDD)	**1.7 KG (without HDD)**
Power	Source	DC model – 12~24VDC, AC model – 90~264 VAC, 47~63Hz		
	Consumption	20W Max.		

IRIS-EX SERIES H.264 Stand-alone DVR (distributed)

IRIS 04EX





Front View

Features

- Stable & economic codec of H.264 H/W compression
- **Triplex** (Live / Recording / Playback / Remote access / Backup)
- **Video Output High Resolution, 120/100FPS Recording Full D1**
  480/400 Live Display, 480/400FPS Recording CIF
- **RAID 0 (Extended) / RAID 1 (Mirrored) function support**
- **2 S-ATA HDD (Max 4 TB storages)**
- **Support Dyn DNS service & add private DDNS**
- **Upgraded GMT / NTP Functions / Jog-shuttle**
- Multi Video Output: VGA, Composite
- Alarm triggering screen , smart recovery F/W
- CMS for remote Live Monitoring, Recording, Playback
- **Front Panel – Black (basic), Optional Color (MOQ)**
- **Text Inserter built in DVR**



IRIS Viewer (Smart Phone Android & iOS)

Rear View



Specification			IRIS-04EX / 08EX
System	Video Input		4 BNC / 8 BNC
	Video Output		1 VGA, 1 Composite
	Video Signal		NTSC or PAL (auto detect)
	O.S.		Embedded Linux 2.6.24 Kernel
	Triplex		Live Display, Recording, Playback, Backup, & Remote access
	Control Device		Front panel, Mouse, IR Remote control, Jog Shuttle
	Compression		H.264 H/W Compression
Video	Video Resolution		800X600, 1024X768, 1280X1024,1366X768, 1440x900 Full D1
	Video Recording (NTSC/PAL)	CIF	480 / 400
		HD1	240/200 (8ch each 30fps per ch at HD1, 15fps per CH at D1)
		D1	**120 / 100 (4ch each 30fps per CH at D1)**
	Video Display split		1 CH / 4 CH
Audio	Audio Input		4CH
	Audio Output		1 CH, RCA
Motion & Alarm	Motion Detection		Motion Detection with Notification
	Alarm Input		4CH
	Relay Output		2 OUT
Storage	HDD		**Up to 2 S-ATA HDD – Max 4 TB**
Record, Play Back & Back up	Recording mode		Manual, Continuous, Video Detection(Motion, video loss), Sensor
	Function		RAID 0, RAID 1, Motion, Event Recording, Pre-recording
	Search mode		Time/Date, Event(Sensor, Alarm, Video loss)
	Playback		Live Search, Calendar Search, Time Search
	Back up		USB memory stick / USB external HDD
Network & CMS	Network Function		TCP/IP, DHCP, DDNS, PPPOE, E-mail
	Remote Feature		Net/Web Client, Live Streaming, Remote Playback, E-MAP,
	NDMS (Optional)		Multi view(max.128CH), Multi access (max. 256DVR), E-map, Dual-monitor
Auxiliary Interface	Communication Port		RS232, Ethernet, 2 USB (Front or Rear: 2 USB Port – Option Choice)
Weights & Measures	Dimension		272(W) x 268(D) x 95(H)mm
	Weight		2.5KG (without HDD)
Power	Source		DC12V, 4A
	Consumption		48W Max.

7 Inch LCD Built-In Type H.264 4ch DVR for ATM/CD

IRIS-04ATMT1/T4



Features

- **H.264 H/W A/V Stable Codec**
- 4ch Full D1, 120 / 100 FPS
- Real-time Live / Recording / Playback
  Network Streaming (Triplex support)
- **Built in Text Insert function / searching for card#**
- **7 inch built in LCD Module**
- Support 2 USB 2.0 port (Mouse / Backup/ Update S/W)
- NDMS(Remote Viewer for multi-access)
- Cost effective Model with RAID & smart recovery F/W
- **- All in one type, ATM/POS Application (time sync & text insert)**



Front View



IRIS i-OS Viewer & Android CQ viewer (Smart Phone)



Rear View

Specification		IRIS ATM T1 / T4
System	O.S.	Embedded Linux 2.6 / **Auto recovery function through USB memory**
	Multiplex	Sixfold operation – simultaneous record,live,playback,backup,control & remote access
Video	Format	NTSC or PAL (auto detect at CH 1)
	Input	4 BNC
	Output	1 RCA, 1 VGA
Audio	Input	4 RCA-jack connectors
	Output	1 RCA-jack connector
Text Insert	Device	**RS-232C (be use a type of cross cable)**
	ATM Type	ATM for Windows OS all
Record	Compression	H.264
	Frame rate (fps) & Resolution	NTSC-60/720*480, 120/720*240,240/360*240 PAL-50/720*576,100/720*288,200/360*288
Display	Resolution	**Typical VGA output resolution :** 800X600, 1024X768, 1280X1024,1366X768, 1440x900 Full D1 **& 7 inch LCD display**
	Frame rate (fps)	120(NTSC) /100(PAL)
Playback	Search	Date/time(Calender),Camera,Sensor,Motion,Video Loss(Event)
	Operation	Play, Fast Forward(x1~x16), Backward(x1~x16), Pause, Backup,capture
Storage	HDD	2 S-ATA HDD (max, each 2TB – Total 4 TB) / **RAID 0, 1 (extend & mirroring) support**
	Backup	2 ports for USB 2.0 disk drives
Alarm	Input	4 contact or TTL / COMS signal, polarity selectable
	Output	2 relay output
	Triggered by	Sensor input, Video loss & Motion
Network	Web(http)	Remote setup, monitoring, & alarm notification & remote software upgrade
	Protocol	TCP/IP, HTTP,DHCP,DDNS,FTP
Control	Local	Keypad, I/R remote controller, USB Mouse
	Remote	Setup & upload via Windows application sofrware
Weights & Measures	Dimension	200 (W) x 211 (D) x 131 (H) mm
	Weight	1.87 KG (without HDD)
Power	Source	DC 12VDC, 4A
	Consumption	48W Max.
Supporting ATM Machine		**WINCOR, ARGENTA 510, Hyosung, OMRON, Diebold 1064, Diebold 520, OPTIBA 510, NCR 5877**

IRIS-Security Control Box + H.264 DVR, All In One Series

IRIS SC-5000





IRIS Viewer (Smart Phone Android & iOS)

Features

- Stable codec of H.264 H/W compression
- **Triplex** (Live / Recording / Playback / Remote access / Backup)
- **Video Output High Resolution, 120/100FPS Recording Full D1**
- **Server & mobile notification according to event (V-clip)**
- **2 S-ATA 2.5" HDD (Max 2 TB storages)**
- **Support Dyn DNS service & add private DDNS**
- **Best solution for security guardian & S.I.**
- RFID **access control interfacing management**
- Alarm triggering screen (Tips, buzzer, PTZ preset, e-mail)
- CMS for remote Live Monitoring, Recording, Playback
- **4CH / 8 CH DVR with security control box, smart recovery**
- **Multi –Sensor & Multi Alert Functions**
- **Remote Control and Monitoring**
- **Security control box + DVR + battery power device, all in one**

Specification			IRIS-04SC / 08SC
System	Video Input		4 /8 Terminal block
	Video Output		1 Composite terminal block
	Video Signal		NTSC or PAL auto detect
	O.S.		Embedded Linux
	Triplex		Live Display, Recording, Playback, Backup, & Remote access
	Control Device		Front panel, Mouse, IR Remote control, Jog Shuttle
	Compression		H.264 H/W Compression
Video	Video Resolution		800X600, 1024X768, 1280X1024,1366X768, 1440x900 Full D1
	Video Recording (NTSC/PAL)	CIF	120 / 100
		HD1	120/100
		D1	**120 / 100**
	Video Display split		1 CH / 4 CH
Audio	Audio Input		1~4CH
	Audio Output		1 CH, RCA
Motion & Alarm	Motion Detection		Motion Detection with Notification by remote server or mobile phone
	Alarm Input		8CH
	Relay Output		4 OUT
Storage	HDD		**Up to 2 S-ATA HDD – Max 2 TB (2.5" HDD)**
Record, Play Back & Back up	Recording mode		Manual, Continuous, Video Detection(Motion, video loss), Sensor
	Function		Motion, Event Recording, Pre-recording, Sensor, Alert
	Search mode		Time/Date, Event(Sensor, Alarm, Video loss)
	Playback		Live Search, Calendar Search, Time Search
	Back up		USB memory stick / USB external HDD
Network & CMS	Network Function		TCP/IP, DHCP, DDNS, PPPOE, E-mail
	Remote Feature		Net/Web Client, Live Streaming, Remote Playback, E-MAP,
	NDMS (Optional)		Multi view(max.128CH), Multi access (max. 256DVR), E-map, Dual-monitor
Auxiliary Interface	Communication Port		RS232, Ethernet, 2 USB
Weights & Measures	Dimension		240(W) x 350(D) x 66(H)mm
	Weight		2.5KG (without HDD, battery)
Power	Source		Built in AC 220V power supply & DC12V , 4A battery
	Consumption		72 W Max.

IRIS-E SERIES H.264 Stand-alone DVR (Economic DVR)

IRIS 04/08E



Front View



IRIS Viewer (Smart Phone Android & iOS)

Features

- Stable & economic codec of H.264 H/W compression
- **Triplex** (Live / Recording / Playback / Remote access / Backup)
- **Video Output High Resolution, 120/100FPS Recording Full D1**
  8ch with 240/200 fps at HD1 & 120/100fps at D1 compatible
- **RAID 0 (Extended) / RAID 1 (Mirrored) function support**
- **2 S-ATA HDD (Max 4 TB storages), smart recovery F/W**
- **Support Dyn DNS service & add private DDNS**
- **Upgraded GMT / NTP Functions / Jog-shuttle**
- Multi Video Output: VGA, Composite
- Alarm triggering screen , digital zoom support at live & playback
- CMS for remote Live Monitoring, Recording, Playback
- **Economic solution for your surveillance system with 4/8/16ch**

Rear View



Specification			IRIS-04E/ 08E
System	Video Input		4 /8 BNC
	Video Output		1 VGA, 1 Composite
	Video Signal		NTSC or PAL auto detect
	O.S.		Embedded Linux
	Triplex		Live Display, Recording, Playback, Backup, & Remote access
	Control Device		Front panel, Mouse, IR Remote control, Jog Shuttle
	Compression		H.264 H/W Compression
Video	Video Resolution		800X600, 1024X768, 1280X1024,1366X768, 1440x900 Full D1
	Video Recording (NTSC/PAL)	CIF	480 / 400
		HD1	240/200 fps (30 fps per CH ay HD1, 15 fps per CH at D1)
		D1	**120 / 100 (30fps per ch at D1)**
	Video Display split		1 CH / 4 CH
Audio	Audio Input		4CH
	Audio Output		1 CH, RCA
Motion & Alarm	Motion Detection		Motion Detection with Notification
	Alarm Input		4CH
	Relay Output		1 OUT
Storage	HDD		**Up to 2 S-ATA HDD – Max 4 TB**
Record, Play Back & Back up	Recording mode		Manual, Continuous, Video Detection(Motion, video loss), Sensor
	Function		RAID 0, RAID 1, Motion, Event Recording, Pre-recording
	Search mode		Time/Date, Event(Sensor, Alarm, Video loss)
	Playback		Live Search, Calendar Search, Time Search
	Back up		USB memory stick / USB external HDD
Network & CMS	Network Function		TCP/IP, DHCP, DDNS, PPPOE, E-mail
	Remote Feature		Net/Web Client, Live Streaming, Remote Playback, E-MAP,
	NDMS (Optional)		Multi view(max.128CH), Multi access (max. 256DVR), E-map, Dual-monitor
Auxiliary Interface	Communication Port		RS232, Ethernet, 2 USB (Front or Rear: 2 USB Port – Option Choice)
Weights & Measures	Dimension		272(W) x 240(D) x 55(H)mm
	Weight		1.5KG (without HDD)
Power	Source		DC12V, 3A
	Consumption		36W Max.

IRIS-E SERIES H.264 Stand-alone DVR (New E1 DVR)

IRIS 04/08/16 EI



Front View



IRIS Viewer (Smart Phone)

Features

- Stable & economic codec of H.264 H/W compression newly
- **Triplex** (Live / Recording / Playback / Remote access / Backup)
- **Video Output High Resolution, 120/100FPS Recording Full D1**
  8ch with 240/200 fps at HD1 & 120/100fps at D1 compatible
- **RAID 0 (Extended) / RAID 1 (Mirrored) function support**
- **2 S-ATA HDD (Max 4 TB storages), smart recovery F/W**
- **Support DDNS service & external time sync**
- **Upgraded GMT / NTP Functions / Jog-shuttle**
- Multi Video Output: VGA, Composite
- Alarm triggering screen , digital zoom support at live & playback
- CMS for remote Live Monitoring, Recording, Playback
- **The best economic solution for your surveillance system with 4/8/16 ch as a line up**

Rear View



Specification			IRIS-04/ 08/16 E1
System	Video Input		4 /8/16 BNC
	Video Output		1 VGA, 1 Composite (optional HDMI)
	Video Signal		NTSC or PAL auto detect
	O.S.		Embedded Linux
	Triplex		Live Display, Recording, Playback, Backup, & Remote access
	Control Device		Front panel, Mouse, IR Remote control, Jog Shuttle
	Compression		H.264 H/W Compression
Video	Video Resolution		800X600, 1024X768, 1280X1024,1366X768, 1440x900 Full HD support
	Video Recording (NTSC/PAL)	16ch CIF	480 / 400 fps (D1/HD1/CIF recording support)
		8ch HD1	240/200 fps (30 fps per CH ay HD1, 15 fps per CH at D1), D1/HD1 support
		4ch D1	**120 / 100 (30fps per ch at D1)**
	Video Display split		1 CH / 4 CH / 8cCH / 16CH
Audio	Audio Input		4/8/16CH
	Audio Output		1 CH, RCA
Motion & Alarm	Motion Detection		Motion Detection with Notification through e-mail, even clip & remote alarm
	Alarm Input		4CH (~8 input optional)
	Relay Output		1 OUT (~4 output optional)
Storage	HDD		**Up to 2 S-ATA HDD – Max 4 TB**
Record, Play Back & Back up	Recording mode		Manual, Continuous, Video Detection(Motion, video loss), Sensor
	Function		RAID 0, RAID 1, Motion, Event Recording, Pre-recording
	Search mode		Time/Date, Event(Sensor, Alarm, Video loss)
	Playback		Live Search, Calendar Search, Time Search
	Back up		USB memory stick / USB external HDD
Network & CMS	Network Function		TCP/IP, DHCP, DDNS, PPPOE, E-mail
	Remote Feature		Net/Web Client, Live Streaming, Remote Playback, E-MAP,
	NDMS remote access		Multi view(max.128CH), Multi access (max. 256DVR), E-map, Dual-monitor
Auxiliary Interface	Communication Port		RS232, Ethernet, 2 USB (Front or Rear: 2 USB Port – Option Choice)
Weights & Measures	Dimension		272(W) x 240(D) x 55(H)mm
	Weight		1.5KG (without HDD)
Power	Source		DC12V, 3A
	Consumption		36W Max.

IRIS-HD SERIES H.264 Stand-alone DVR (HD/SDI DVR)

IRIS 04 HD



Front View

Features

- Stable & economic HD/SDI H.264 H/W compression
- **Triplex** (Live / Recording / Playback / Remote access / Backup)
- **Video Output High Resolution, 120/100FPS Recording 720P with smpte input & HDMI output**
- **Windows GUI menu function (easy control & setup)**
- **4 S-ATA HDD (Max 8 TB storages)**
- **Support DDNS service & Universal-PnP**
- **Upgraded GMT / NTP Functions**
- Multi Video Output: VGA/HDMI with full HD (1920x1280p) support
- Alarm triggering screen , digital zoom support at live & playback
- CMS / mobile app for remote Live Monitoring,Recording,Playback
- **The best HD solution for your surveillance system with 4ch**



IRIS Viewer (Smart Phone)

Rear View



Specification			IRIS-04HD
System	Video Input		4 BNC (SMPTE standard)
	Video Output		1 VGA, 1 HDMI, 1 composite
	Video Signal		NTSC or PAL auto detect
	O.S.		Embedded Linux
	Triplex		Live Display, Recording, Playback, Backup, & Remote access
	Control Device		Front panel, Mouse, IR Remote control,
	Compression		H.264 H/W Compression
Video	Video Resolution		800X600, 1024X768, 1280X1024,1366X768, 1440x900, 1920x1280 Full HD
	Video Recording (NTSC/PAL)	live	120fps, 30fps per live ch
		playback	30fps per a ch, 120fps totally
		HD/SDI	**120 / 100 (30fps per ch at HD, 720p)**
	Video Display split		1 CH / 4 CH
Audio	Audio Input		4CH RCA
	Audio Output		1 CH, HDMI
Motion & Alarm	Motion Detection		Motion Detection with Notification
	Alarm Input		4CH
	Relay Output		1 OUT
Storage	HDD		**Up to 4 S-ATA HDD – Max 2 TB per each HDD (8TB max)**
Record, Play Back & Back up	Recording mode		Manual, Continuous, Video Detection(Motion, video loss), Sensor
	Function		Video clip, Motion, Event Recording, Pre-recording
	Search mode		Time/Date, Event(Sensor, Alarm, Video loss)
	Playback		Live Search, Calendar Search, Time Search, Event search
	Back up		USB memory stick / USB external HDD
Network & CMS	Network Function		TCP/IP, DHCP, DDNS, PPPOE, E-mail, U-PnP (P2P)
	Remote Feature		Net/Web Client, Live Streaming, Remote Playback, E-MAP,
	NDMS (Optional)		Multi view(max.16CH), Multi access (max. 256DVR), E-map, Dual-monitor
Auxiliary Interface	Communication Port		RS232, Ethernet, 2 USB (Front or Rear: 2 USB Port – Option Choice)
Weights & Measures	Dimension		272(W) x 240(D) x 55(H)mm
	Weight		1.5KG (without HDD)
Power	Source		DC12V, 3A
	Consumption		36W Max.

IRIS-HD SERIES H.264 Stand-alone DVR (HD/SDI DVR)

IRIS 04 EHD



Front View



IRIS Viewer (Smart Phone)

Features

- Stable & economic HD/SDI H.264 H/W compression
- **Triplex** (Live / Recording / Playback / Remote access / Backup)
- **Video Output High Resolution, 120/100FPS Recording 720P with smpte input & HDMI output**
- **Windows GUI menu function (easy control & setup)**
- **2S-ATA HDD (Max 4 TB storages)**
- **Support DDNS service & Universal-PnP**
- **Upgraded GMT / NTP Functions**
- Multi Video Output: VGA/HDMI with full HD (1920x1280p) support
- Alarm triggering screen , digital zoom support at live & playback
- CMS / mobile app for remote Live Monitoring,Recording,Playback
- **Economic HD solution for your surveillance system with 4ch**
- **60fps progressive scan per ch at the live view**

Rear View



Specification			IRIS-04EHD
System	Video Input		4 BNC (SMPTE standard)
	Video Output		1 VGA, 1 HDMI, 1 composite
	Video Signal		NTSC or PAL auto detect
	O.S.		Embedded Linux
	Triplex		Live Display, Recording, Playback, Backup, & Remote access
	Control Device		Front panel, Mouse, IR Remote control,
	Compression		H.264 H/W Compression
Video	Video Resolution		800X600, 1024X768, 1280X1024,1366X768, 1440x900, 1920x1280 Full HD
	Video Recording (NTSC/PAL)	live	240fps, 60fps progressive scan per live ch
		playback	30fps per a ch, 120fps totally
		HD/SDI	**120 / 100 (30fps per ch at HD, 720p)**
	Video Display split		1 CH / 4 CH
Audio	Audio Input		4CH RCA
	Audio Output		1 CH, HDMI
Motion & Alarm	Motion Detection		Motion Detection with Notification
	Alarm Input		4CH
	Relay Output		1 OUT
Storage	HDD		**Up to 2 S-ATA HDD – Max 2 TB per each HDD (4TB max)**
Record, Play Back & Back up	Recording mode		Manual, Continuous, Video Detection(Motion, video loss), Sensor
	Function		Video clip, Motion, Event Recording, Pre-recording
	Search mode		Time/Date, Event(Sensor, Alarm, Video loss)
	Playback		Live Search, Calendar Search, Time Search, Event search
	Back up		USB memory stick / USB external HDD
Network & CMS	Network Function		TCP/IP, DHCP, DDNS, PPPOE, E-mail, U-PnP (P2P)
	Remote Feature		Net/Web Client, Live Streaming, Remote Playback, E-MAP,
	NDMS (Optional)		Multi view(max.16CH), Multi access (max. 256DVR), E-map, Dual-monitor
Auxiliary Interface	Communication Port		RS232, Ethernet, 2 USB (Front or Rear: 2 USB Port – Option Choice)
Weights & Measures	Dimension		272(W) x 240(D) x 55(H)mm
	Weight		1.5KG (without HDD)
Power	Source		DC12V, 3A
	Consumption		36W Max.

All-In-One Built in T.I.E(Text Inserting Emulator) DVR

CQ500A-T1/T4



Features

- Economic & powerful H.264 SoC of INTIME adopted
- **Built in T.I.E(Text Inserting Emulator) (T1-1pc , T4-4pcs of Emulator)**
- Internal 4 sensor & 4 control built in
- Internal 4 sensor & 2 control built in
- Six-fold multiplex operation simultaneously
- **IDE & high speed S-ATA built in**
  - All in one type, USE ATM/POS Application



CQ Viewer (Smart Phone)



Specification		CQ500C	CQ500ATM-T1	CQ500ATM-T4
System	O.S.	Embedded Linux 2.6		
	Multiplex	Sixfold operation – simultaneous record,live,playback,backup,control & remote access		
Video	Format	NTSC or PAL (auto detect)		
	Input	4 BNC or 4 UTP	4 BNC	4 BNC
	Output	1 RCA, 1 VGA, 1 S-VIDEO		
Audio	Input	4 RCA-jack connectors		
	Output	1 RCA-jack connector		
Text Insert	Number of Inserter	None	**1EA**	**4 EA**
	Device	None	**RS-232C**	**RJ-45**
	ATM Type	None	ATM for Windows OS	ATM for Windows OS
Record	Compression Frame rate (fps) &	H.264 (In-time System On Chip) NTSC-60/720*480, 120/720*240,240/360*240		
	Resolution	PAL-50/720*576,100/720*288,200/360*288		
Display	Resolution	1280*1024 SVGA	720*480 VGA	1280*1024 VGA
	Frame rate (fps)	120(NTSC)/100(PAL)	120(NTSC)/100(PAL)	120(NTSC)/100(PAL)
	Digital Zoom	X2,X3,X4,X5		
Playback	Search	Date/time(Calender),Camera,Sensor,Motion,Video Loss(Event)		
	Operation	Play, Fast Forward(x2~x8), Bankward(x1~x8), Pause, Backup,capture		
Storage	HDD	2 HDD (max,1TB), SATA		
	Backup	2 ports for USB 2.0 disk drives		
Alarm	Input	4 contact or TTL/COMS signal, polarity selectable		
	Output	1~4 relay output		
	Triggered by	Sensor input, Video loss & Motion		
Network	Web(http)	Remote setup, monitoring, & alarm notification & remote software upgrade		
	Protocol	TCP/IP, HTTP,DHCP,DDNS,FTP		
Control	Local	Keypad, I/R remote controller, USB Mouse		
	Remote	Setup & upload via Windows application sofrware		
Weights & Measures	Dimension	215(W)×280(D)×72(H)mm		
	Weight	2.3 KG (without HDD)		
Power	Source	DC model – 12~24VDC, AC model – 90~264 VAC, 47~63Hz		
	Consumption	20W Max.		

Stand-alone type Text Inserting Emulator for ATM/POS

SM-7100-ATM/POS





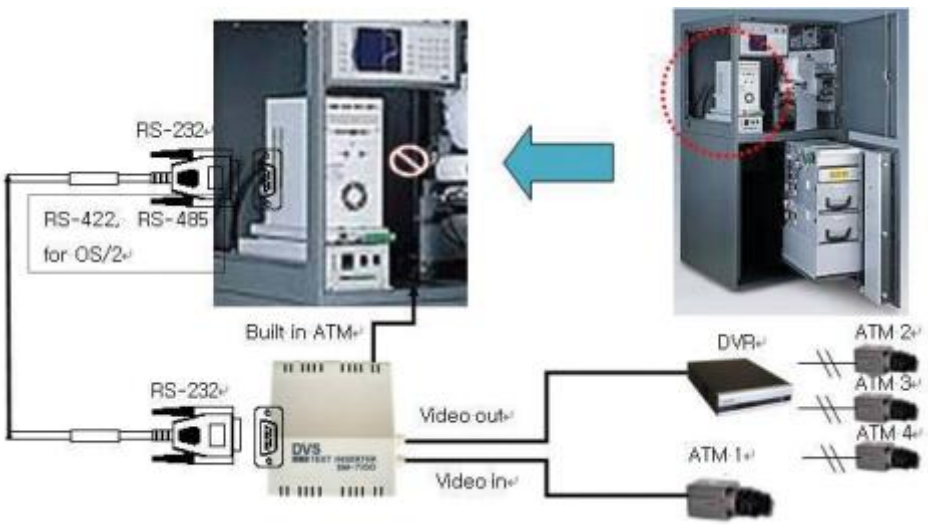
Features

Video

- **NTSC/PAL Video Type - Factory Setting, Number of characters - Max. 360 Characters on a screen**
- **Video In/Out Level - 1Vpp , RCA 1 channel Video In / Out**

External interface

- **1 RS-485 Communication Interface for ATM and POS**
- **1 RS-232 for ISP (FLIP) - Selectable by DIP Switch (option)**
- Power : DC 8 ~ 12 V / 600mW
- Size : 10.5cm(W) * 11.5cm(L) * 3cm(H)
- Color : light- grey nomenclature
- Alarm light : Run, 485, 232 (light on/off)
- Compatible with Diebold, NCR, WinCor, Omron ATM





High Frame Rate (400/480Fps) 4/8/16 MPEG4 N/W DVR

CQ8004/8008/8016



Front View

Features

- Embedded Linux ,Stand-alone N/W DVR
- 4/8/16 channel Analog Video input, Spot out, VGA out, S-Video out, A/V out
- High quality Realtime/Multi-channel Display
- **Real-time Video recording: 480FPS, 360*240(NTSC) /400FPS,360*244(PAL)**
- Panteplex & Backup
- **MAX 4HDD(SATA) available**
- Audio Recording and Playback

Rear View



Specification		CQ8004	CQ8008	CQ8016
System	O.S.	Embedded Linux 2.6		
	Multiplex	Sixfold operation – simultaneous record,live,playback,backup,control & remote access		
Video	Format	NTSC or PAL		
	Input	4 BNC	8 BNC	16 BNC
	Output	1 RCA, 1 VGA, 1 S-VIDEO (MAX,1024*768)		
Audio	Input	4 RCA-jack connectors	8 RCA-jack connectors	16 RCA-jack connectors
	Output	2 RCA-jack connector(2ch output)		
Record	Compression	MPEG4 for Video, G.723 for Audio		
	Frame rate (fps) & Resolution	NTSC-60/720*240,120/360*240 PAL-50/720*288,100/360*288	NTSC-120/720*240,240/360*240 PAL-100/720*288,200/360*288	NTSC-240/720*240,480/360*240 PAL-200/720*288,480/360*28
Display	Resolution	1024*768 VGA		
	Frame rate (fps)	NTSC:720*480/PAL:720*576 1,4 multiview	NTSC:720*480/PAL:720*576 1,4,8 multiview	NTSC:720*480/PAL:720*576 1,4,9,16 multiview
	Digital Zoom	X2,X3,X4,X5		
Playback	Search	Date/time(Calender),Camera,Sensor,Motion,Video Loss(Event)		
	Operation	Play, Fast Forward(x2~x8), Bankward(x1~x8), Pause, Backup,capture		
Storage	HDD	1 HDD (max,2 HDD), SATA	2 HDD (max,4 HDD), SATA	
	Backup	3 ports for USB 2.0 disk drives, CD+RW		
Alarm	Input	4 terminal block, TTL/COMS signal, N.O/N.C polarity	8 terminal block, TTL/COMS signal, N.O/N.C polarity selectable	16 terminal block, TTL/COMS signal, N.O/N.C polarity Selectable
	Output	2CH,terminal blockoutput,N.O/N.C	2CH,terminal blockoutput,N.O/N.C	4CH,terminal blockoutput,N.O/N.C
	Triggered by	Sensor input, Video loss & Motion		
Network	Web(http)	Remote setup, monitoring, & alarm notification & remote software upgrade		
	Protocol	TCP/IP, HTTP,DHCP,DDNS,FTP		
Control	Local	Keypad, I/R remote controller, USB Mouse		
	Remote	Setup & upload via Windows application sofrware		
Weights & Measures	Dimension	430(W)×338(D)×89(H)mm		
	Weight	5 KG (without HDD)		
Power	Source	DC model – 12~24VDC, AC model – 90~264 VAC, 47~63Hz		
	Consumption	20W Max.		

CQ-4001 High Quality Mobile Car DVR





CQ-4001 Mobile DVR based H.264 Codec Compression Algorithm. It gives you best Video Quality and longer recording time than other solutions. It designed for heavy duty Commercial Users for Buses, Trucks, Taxies, Utility Vehicles and Etc.
No more worry about Impacts or vibrations from Vehicles environment because CQ-4001A use CF-Card Storage(CQ-4001H use 2.5" HDD). Also, it made hard protection unstable power supply from outside. CQ-4001 provide easy and simple user interface but full functions support from special Viewer software for PC.
CQ-4001 has many options to fit users request. It can be applied to anywhere related Mobile specialist.

CQ-4001A / CQ-4001H			Specifications	
Video	Input	Channel	4ch (Customized connection)	
		Signal Selection	Auto Detection(NTSC/ PAL)	
		Input Type	Composite (Customized Connector)	
		Signal Format	NTSC/ PAL	
		Video Loss Check	Support	
	Output	Display output	Rear : TV-OUT (Stereo Jack Connector), Front : TV-out & 12V DC Power out (Wafer Connector)	
		Output Type	Composite 1.0Vp-p, 75Ω	
		Signal Format	NTSC/ PAL	
Audio	Input	Channel	4ch (Customized Connector)	
		Codec	ADPCM	
	Output (Mono)		1ch (Stereo Jack Connector)	
Alarm	Sensor Input		Up to 4ch (Terminal)	
	Alarm Output		1 ch(NC/NO)	
Live			NTSC	PAL
	Frame Rate		120fps(30fps/ch)	100fps(25fps/ch)
	Channel Disable		Support	
	Video Loss Detection		Support	
	Screen Split		1, 4	
	Rear View Auto Popup		Depend on SW (Optioal)*	
Recording	Compression		H.264	
	Source File Format		Own file format / AVI file format*	
	Resolution & Speed Code c Mode		NTSC	PAL
		360x240/ 352x288	Max 120fps(30fps/ch)	100fps(25fps/ch)
		720x240/ 720x288	Max 120fps(30fps/ch)	100fps(25fps/ch)
		720x480/ 720x576	Max 60fps(15fps/ch)	50fps(12 fps/ch)
	Adjust Frame Rate per channel		Support	
	Frame Rate Concentration		Event Driven*	
	Average Data Size	360x240/ 352x288	4K byte / pic (High Quality)	
		720x240/ 720x288	5K byte / pic (High Quality)	
		720x480/ 720x576	6K byte / pic (High Quality)	
	Image Quality Level	VBR	3 Levels, 5 Levels*	
		CBR	3 Levels*, 5 Levels*	
	Recording Mode		Continuous / Motion, Sensor or both	
	Motion Detection Sensitivity		Support	
	Pre Recoding by Alarm		1~30 sec*	
	Post Recoding by Alarm		2~300sec*	
	CF Full Warning (Overwrite)		Beep & OSD Indication Alert*	
	daylight saving time		Support	
Storage	Exteranl CF Memory Card / Movable HDD	Interface Type	CF Memory Card / SSD Card* type / 2.5" HDD movable rack type	
		Capacity of 1 CF	Over 2 Giga Byte	
Search & Playback	Playback (Viewer S/W)	Control	one step Forward/ Reverse, Play, Fast Forward/ Reverse	
		Speed	x2, 4, 8	
	Realtime Playback		Support	
	Search Mode		Time & Date, Event	
Network**	Max Accessible Clients**		3**	
	Netwrok Type**		Wireless ethernet**	
	Network Interface**		802.11 B/G/N**, RJ45**	
User I/F	Video Stream with OSG		Own viewer S/W	
Additonal Function	Multi-Language*		Support (Viewer S/W Only)*	
	GPS*		1 Serial port for External GPS optional device requirment*	
	G-Sensor*		Movement catched	
	External IR Receiver for Remote Controller		1 Port optional cable requirment	
System	Control & Debugging		RS232 / Media	
	Operation System		Embedded Linux (Ver. 2.6.xx)	
	Dimension (WxHxD mm)		150x150mm for main board	
	Net Weight		-	
	Power Out		12V DC to camera (4 channel)	
	Power Source		9~35V 1A	

* Optional functions

** Customizing project

Bullet 36 IR Weatherproof HD/SDI Camera

SHD-4036IR-13M



Features

- Automatic controls
- Programmable controls
- Image adjusting functions
- Efficient denoising coupled with defective pixel correction
- Support for privacy zone and eclipse function
- Support SMPTE296M for HD-SDI
- Support for I²C master/slave interface
- Support for out put formats
- Support for image size
- Support for input clock
- On-chip phase locked loop
- Built-in OSD to adjust image
- High sensitivity and low noise characteristics

Specification

ITEM	SHD-4036IR-13M
Image Sensor	1/3" ZeeAnn Progressive Scan Sensor
Effective Pixels	1288(H) x 728(V)
S/N Ratio	More than 39.1 dB
Resolution	1280 x 720 BT1120 16 : 9 HD (720p (60/50))
Video Output Level	HD-SDI / 1.0Vp-p(75Ω)
Minimum illumination	1 Lux (color), 0.5 Lux (B/W)
OSD	Yes
Electronic Shutter Speed	1/50 sec ~ 1/90,000 sec
White Balance	Auto / Manual / Indoor / Outdoor
Flicker	Off / 50Hz / 60Hz
Backlight Compensation	Center Weight (16 Steps)
AGC	1x ~ 64x
Day & Night	Auto / Color / BW / EXT
2D-DNR	On
HLMASK(Highlight Masking)	On / Off (16 Zone)
Mirror/Flip	On / Off
Privacy Masking	On / Off (2 Zone Selectable)
Power Input	DC12V ± 10%
Power Consumption	1.2W(100mA)
Operation Temperature / Humidity	-10˚C to +50˚C / 30% to 80% RH
Storage Temperature / Humidity	-20˚C to +60˚C / 20% to 90% RH
Dimension	32(H) x 32(V) x 1.2(T)mm
Weight	6g

21 IR Dome type HD/SDI Camera

SHD-3021IR-13M



Features

- Automatic controls
- Programmable controls
- Image adjusting functions
- Efficient denoising coupled with defective pixel correction
- Support for privacy zone and eclipse function
- Support SMPTE296M for HD-SDI
- Support for I²C master/slave interface
- Support for out put formats
- Support for image size
- Support for input clock
- On-chip phase locked loop
- Built-in OSD to adjust image
- High sensitivity and low noise characteristics

Specification

ITEM	SHD-3021IR-13M
Image Sensor	1/3" ZeeAnn Progressive Scan Sensor
Effective Pixels	1288(H) x 728(V)
S/N Ratio	More than 39.1 dB
Resolution	1280 x 720 BT1120 16 : 9 HD (720p (60/50))
Video Output Level	HD-SDI / 1.0Vp-p(75Ω)
Minimum illumination	1 Lux (color), 0.5 Lux (B/W)
OSD	Yes
Electronic Shutter Speed	1/50 sec ~ 1/90,000 sec
White Balance	Auto / Manual / Indoor / Outdoor
Flicker	Off / 50Hz / 60Hz
Backlight Compensation	Center Weight (16 Steps)
AGC	1x ~ 64x
Day & Night	Auto / Color / BW / EXT
2D-DNR	On
HLMASK(Highlight Masking)	On / Off (16 Zone)
Mirror/Flip	On / Off
Privacy Masking	On / Off (2 Zone Selectable)
Power Input	DC12V ± 10%
Power Consumption	1.2W(100mA)
Operation Temperature / Humidity	-10˚C to +50˚C / 30% to 80% RH
Storage Temperature / Humidity	-20˚C to +60˚C / 20% to 90% RH
Dimension	32(H) x 32(V) x 1.2(T)mm
Weight	6g

Dome type HD/SDI Indoor Camera

SHD-30-13M



Features

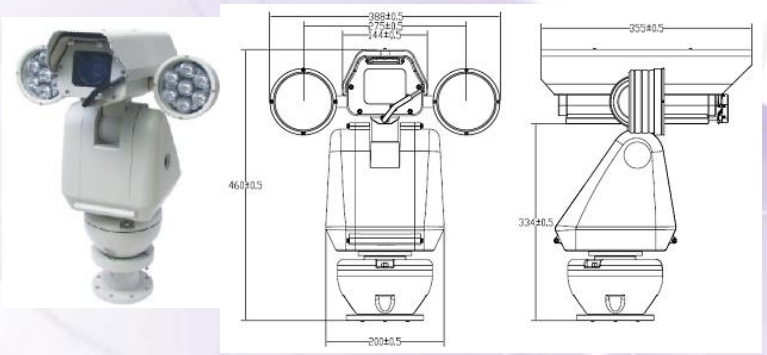
- Automatic controls
- Programmable controls
- Image adjusting functions
- Efficient denoising coupled with defective pixel correction
- Support for privacy zone and eclipse function
- Support SMPTE296M for HD-SDI
- Support for I²C master/slave interface
- Support for out put formats
- Support for image size
- Support for input clock
- On-chip phase locked loop
- Built-in OSD to adjust image
- High sensitivity and low noise characteristics

Specification

ITEM	SHD-30-13M
Image Sensor	1/3" ZeeAnn Progressive Scan Sensor
Effective Pixels	1288(H) x 728(V)
S/N Ratio	More than 39.1 dB
Resolution	1280 x 720 BT1120 16 : 9 HD (720p (60/50))
Video Output Level	HD-SDI / 1.0Vp-p(75Ω)
Minimum illumination	1 Lux (color), 0.5 Lux (B/W)
OSD	Yes
Electronic Shutter Speed	1/50 sec ~ 1/90,000 sec
White Balance	Auto / Manual / Indoor / Outdoor
Flicker	Off / 50Hz / 60Hz
Backlight Compensation	Center Weight (16 Steps)
AGC	1x ~ 64x
Day & Night	Auto / Color / BW / EXT
2D-DNR	On
HLMASK(Highlight Masking)	On / Off (16 Zone)
Mirror/Flip	On / Off
Privacy Masking	On / Off (2 Zone Selectable)
Power Input	DC12V ± 10%
Power Consumption	1.2W(100mA)
Operation Temperature / Humidity	-10˚C to +50˚C / 30% to 80% RH
Storage Temperature / Humidity	-20˚C to +60˚C / 20% to 90% RH
Dimension	32(H) x 32(V) x 1.2(T)mm
Weight	6g

Intelligent IR High Speed analog PTZ Camera

SMP-UV20CR-26BW



Features

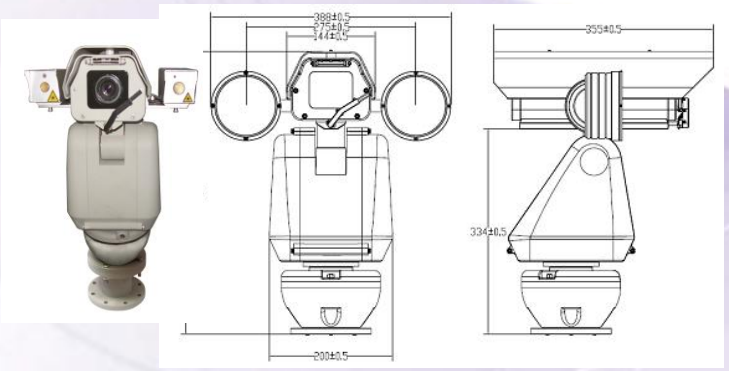
- Sony Ex-view 26x optical camera module
- Outdoor/Indoor, Al-alloy, IP66, CE, FCC, ROHS
- Day & Night, Video Freeze, BLC, Multi-Privacy
- Pattern track memory function / Self-restoring style
- 255 preset, speed 80°/sec for pan, 40°/sec for tilt
- 360° continuously pan, and auto-flip tilt rotation
- IR Distance more than 100 m
- Built in Washer-wiper, heater
- RS-485 feed back the orientation of Pan/Tilt

Specification

ITEM \ Model	NTSC/PAL
	SMP-UV20CR-26BW
Image Sensor	1/4'' Sony Ex-view HAD CCD 26x
Shutter Speed	Electronic Shutter, 1/1 to 1/10,000sec, 22 steps
Effective Picture Elements	Approximate 380,000 pixels
Optical Zoom	36x Optical Zoom
Electronic Zoom	12x Digital Zoom (432x with Optical Zoom)
Minimum Illumination	1.0 lux (Typical) (50 IRE)
Method of scanning (Turning System)	2:1 Interleaved
Sync System	Internal / External (V-Lock)
Signal Vs Noise ratio	More than 50dB
Video Output	CVBS: 1.0Vp-p 75 Ω
IRIS CTRL	AUTO/MANUAL FIRST
Gain Ctrl	Auto / Manual (-3 to 20 dB, 2 dB steps)
Lens	26X Optical Zoom, (Wide: F3.5~F91.0), (Tele: F1.6~3.8), 12x Digital Zoom
Lens Angle	Wide end 54.2° to Tele end 2.2°
Minimum working Distance	320mm (Wide end) to 1500mm(Tele end)
Focusing System	AUTO(Sensitivity: Normal/Low), MANUAL, Zoom
Material of Case	AL-ALLOY
WHITE BALANCE	AUTO / ATW / Indoor / Outdoor / One-push / MANUAL
WDR	N/A
Rotation Index	Pan : 360° continuous rotation, Tilt: +35° ~ -85° unobstructed rotation
Manual Control Speed	Pan: 0.1°~80°/Sec Tilt: 0.1°~40°/Sec, / Preset speed : Pan: 80°/Sec, Tilt: 40°/Sec
Power Input Voltage	Input Voltage: Standard AC 24V
Power Input Consumption	Input Power 70W include IR Lamp
Storage Temp	-20°c to 60°c (-4 to 140°F)
Operating temp	-40°c ~ +55°c
Net weight	16kg included IR Lamps / Shipping Weight : 18 kg

Intelligent laser High Speed analog PTZ Camera

SMP-UV20CR-36LR



Features

- Sony 36x optical camera module
- Outdoor/Indoor, Al-alloy, IP66, CE, FCC, ROHS
- Day & Night, Video Freeze, BLC, Multi-Privacy
- Pattern track memory function / Self-restoring style
- 255 preset, speed 80°/sec for pan, 40°/sec for tilt
- 360° continuously pan, and auto-flip tilt rotation
- laser Distance more than 300 m
- Built in Washer-wiper, heater
- RS-485 feed back the orientation of Pan/Tilt

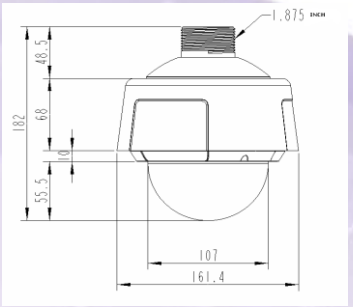
Specification

ITEM \ Model	NTSC/PAL
	SMP-UV20CR-36LR
Image Sensor	1/4'' Sony optical 36x
Shutter Speed	Electronic Shutter, 1/1 to 1/10,000sec, 22 steps
Effective Picture Elements	Approximate 480,000 pixels
Optical Zoom	36x Optical Zoom
Electronic Zoom	12x Digital Zoom (432x with Optical Zoom)
Minimum Illumination	Laser 820nm illuminator
Method of scanning (Turning System)	2:1 Interleaved
Sync System	Internal / External (V-Lock)
Signal Vs Noise ratio	More than 50dB
Video Output	CVBS: 1.0Vp-p 75 Ω
IRIS CTRL	AUTO/MANUAL FIRST
Gain Ctrl	Auto / Manual (-3 to 20 dB, 2 dB steps)
Lens	26X Optical Zoom, (Wide: F3.5~F91.0), (Tele: F1.6~3.8), 12x Digital Zoom
Lens Angle	Wide end 54.2° to Tele end 2.2°
Minimum working Distance	320mm (Wide end) to 1500mm(Tele end)
Focusing System	AUTO(Sensitivity: Normal/Low), MANUAL, Zoom
Material of Case	AL-ALLOY
WHITE BALANCE	AUTO / ATW / Indoor / Outdoor / One-push / MANUAL
WDR	N/A
Rotation Index	Pan : 360° continuous rotation, Tilt: +35° ~ -85° unobstructed rotation
Manual Control Speed	Pan: 0.1°~80°/Sec Tilt: 0.1°~40°/Sec, / Preset speed : Pan: 80°/Sec, Tilt: 40°/Sec
Power Input Voltage	Input Voltage: Standard AC 24V
Power Input Consumption	Input Power 70W include IR Lamp
Storage Temp	-20°c to 60°c (-4 to 140°F)
Operating temp	-40°c ~ +55°c
Net weight	16kg included IR Lamps / Shipping Weight : 18 kg

Day/Night Mini analog PTZ Speed Dome Camera

IW720PM





Features

- Sony Ex-view 10x optical camera module
- 120x zoom possible combined with digital zoom
- Outdoor / Indoor, Al-alloy, IP66, CE, FCC
- Multi-line On-screen Display, Slow AE function
- Motion detection, Video freeze, BLC, E-flip
- 128 preset, speed 150°/sec for pan, 80°/sec for tilt
- 360° continuously pan, and auto-flip tilt rotation

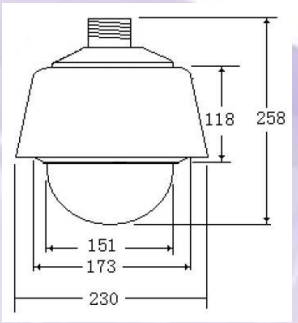
Specification

ITEM \ Model	NTSC/PAL
	SMP-UV30C-10X
Image Sensor	1/4'' Sony Exview HAD CCD
Shutter Speed	Auto/manual (1/3sec to 1/10,000sec), 22 steps
Horizontal resolution	>550 TVL
Optical Zoom	10x, F-4.2,mm (Wide) to 42mm (Tele)
Electronic (Digital) Zoom	12x (with optical 120x)
Minimum Illumination	1.0Lux (Typical, F1.8, 50 IRE)
Method of scanning (Turning System)	2:1 Interleaved
Sync	Internal / External (V-Lock)
Signal Vs Noise ratio	More than 50dB
Video Output	VBS: 1.0 Vp-p, 75 Ω
IRIS CTRL	AUTO/MANUAL FIRST
Gain Ctrl	Auto / Manual (-3~28 dB, 2 dB steps)
Lens	F1.8 to F2.9
Pan angle	46° (Wide) to 4.6°(Tele)
FOCUS	AUTO/MANUAL FIRST
Material of case	AL-ALLOY
White Balance	AUTO / MANUAL
WDR	N/A
Rotation Index	Pan : 360° continuous rotation, Tilt: 0° ~ -90° unobstructed rotation
Manual Control Speed	Pan: 0.1°~150°/Sec Tilt: 0.1°~100°/Sec, / Preset speed : Pan: 150°/Sec, Tilt: 80°/Sec
Power Supply Case	Input Voltage - AC 24V (AC 20V ~ 28V)
Power consumption	Input Power – 30W standard, 800 mA
Operating temp	-40°c ~ +50°c
Gross weight	7.5kg

Day/Night analog PTZ High Speed Dome Camera

SMP-UV51BC-18x





Features

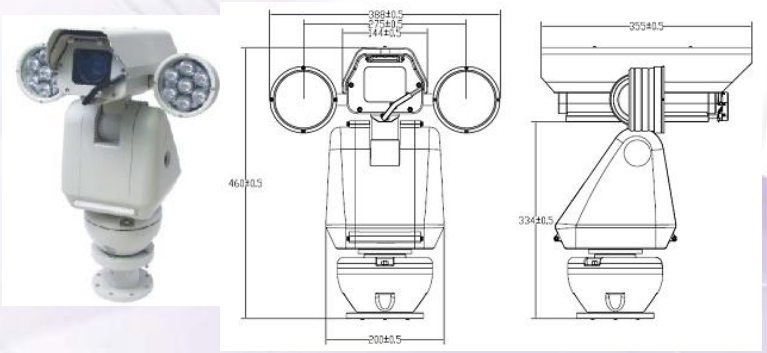
- SONY 18x ,26x optical camera module
- 5.9'', Indoor/Outdoor design, Al-alloy, IP66, CE, FCC
- Video freeze, Backlight compensation, Day & Night
- Multi-automatic scan mode
- Auto pan scan function
- 7 alarming input, 2 Aux output function
- 128 preset, speed 250°/sec for pan, 200°/sec for tilt
- 360° non-stop pan rotation & auto-flip tilt

Specification

Model / ITEM	NTSC/PAL
	SMP-UV51BC-18X
Image Sensor	SONY 1/4'' Sony Ex-View HAD CCD
OPTICAL ZOOM	18X, 26x
Electronic (Digital) Zoom	12X (216x with optical zoom)
Minimum Illumination	0.7 Lux (Color) in 1/50sec, 0.1 Lux (B.W) in 1/3 sec / 0.01 Lux IR (B/W) 1/3 ICR ON
Speed of electronic shutter	AUTO 1/1-1/10,000, 22 Steps
Horizontal resolution	>520 TVL
Method for scanning (Touring System)	2 : 1 Interleaved
Sync	Internal / AC liner lock
Signal Vs Noise ratio	50dB 5
Video Output	1.0+0.2Vp-p 75 Ω compound
IRIS CTRL	AUTO/Manual first
GAIN CTRL	AUTO/MANUAL
Lens	F1.4 (f=4.1~73.8mm)
Pan Angle	4.1mm wide angle lens 48°, 73.8mm tele angle lens 2.8°
FOCUS	AUTO/MANUAL FIRST
Material of case	AL-ALLOY
WHITE BALANCE	AUTO/MANUAL
WDR	N/A
Rotation Index	Pan : 360° continuous rotation, Tilt: 0° ~ -90° unobstructed rotation
Manual Control Speed	Pan: 0.1°~150°/Sec Tilt: 0.1°~100°/Sec, / Preset speed : Pan: 150°/Sec, Tilt: 80°/Sec
Supply Case	AC 24V
Power consumption	800mA
Operating temp	-40°c ~ +50°c
Gross weight	7.5kgs

Mega-pixel HD(1920x1080p)PTZ IP Camera

SMM-UD20HD-20IR



Features

- 1.3M Hitachi 18X / 2.0 M Sony HD 20x optical HD zoom camera module
- Outdoor/Indoor, Al-alloy, IP66, CE, FCC, ROHS
- HD module with BLC, WDR, day & night image
- support setting virtual zero position
- 255 preset, auto pan scanning
- 360° continuously pan, auto-flip tilt rotation (no cable)
- IR Distance more than 100 m
- Built in Washer-wiper, heater, fan , surge protection
- Dual stream, ONVIF support

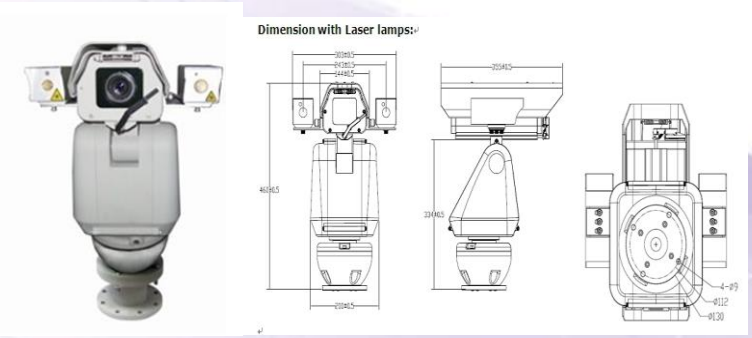
Specification

Model / ITEM	1.3Mega Pixel SMM-UD13HD-18IR	2.0 Mega Pixel SMM-UD20HD-20IR
Image Sensor	1/2.8'' Hitachi HD CCD zoom 18x	1/2.8'' Sony HD CCD zoom 20x
Scan System	Progressive 1.3 Million pixel	Progressive 2.0 Million pixel
Zoom	X 18 optical / X12 digital, 5.2 sec	X 20 optical / X12 digital , 4.9 sec
Focal length	F=4.7~84.6 mm	F=4.7~94 mm
Focus / Lens IRIS	Auto / Manual , F1.6~F36.2	Auto / Manual , F1.6~F35
Minimum Illumination	0.02 lux (IRC off), 0.005 lux (IRC on)	0.26 lux (IRC off), 0.005 lux (IRC on)
Auto/ Manual function	Shutter speed/ gain control/ white balance	Shutter speed/ gain control/ white balance
BLC / WDR / day & night	On, off / yes / yes	On, off / yes / yes
Signal Vs Noise ratio	More than 50dB	More than 50dB
IR distance	Over 100 M	Over 100 M
Compression format	H.264 main stream	H.264 main stream
resolution	720P(1280x720), sub (640x320) dual stream	1080P(1920x1080), sub (640x320) dual stream
Video code rate	32kbps~16Mbps (1~25 frame)	32kbps~16Mbps (1~30 frame)
Web interface	10/100base T, RJ45	10/100base T, RJ45
Alarm interface	Switch in X 1, Switch out X 1	Switch in X 1, Switch out X 1
Storage interface	X1 CF card interface built in	X1 CF card interface built in
Audio interface	X1 input Mic, X1 output speaker (bi-directional)	X1 input Mic, X1 output speaker (bi-directional)
Network protocol	TCP/IP, ARP, IGMP,FTP,RTP/RTSP, NTP, DNS, DDNS, SNMP, PPPoE	TCP/IP, ARP, IGMP,FTP,RTP/RTSP, NTP, DNS, DDNS, SNMP, PPPoE
Special feature	Support heartbeat detection, intelligent retransmission, restructuring transverse NAT/ANR	Support heartbeat detection, intelligent retransmission, restructuring transverse NAT/ANR
Application	Alarm linkage, voice monitoring, talk back	Alarm linkage, voice monitoring, talk back
OSD & Image control	Yes, bright /contrast /saturation	Yes, bright /contrast /saturation
Setting & maintenance	Support Web browser configuration management and video browser	
	Connect to platform NVR for parameter configuration and status management	
Mobile monitoring	Smart phone	Smart phone
Power Input Consumption	30W(no heater) , 40W(with heater) except IR Lamp	30W(no heater) , 40W(with heater) except IR Lamp
Input power	24 VAC	24 VAC
Operating Temp	-40°c to 55°c	-40°c to 55°c
Operating Humidity	10% ~ 90%	10% ~ 90%
Net weight	12kg body only except IR Lamps	12kg body only except IR Lamps

※ The specifications are subject to change without notice.

Mega-pixel HD(1920x1080p)PTZ IP Camera

SMM-UD20HD-20LZ



Features

- 1.3M Hitachi 18X / 2.0 M Sony HD 20x optical HD zoom camera module
- Outdoor/Indoor, Al-alloy, IP66, CE, FCC, ROHS
- HD module with BLC, WDR, day & night image
- support setting virtual zero position
- 255 preset, auto pan scanning
- 360° continuously pan, auto-flip tilt rotation (no cable)
- Lazer Distance more than 200 m
- Built in Washer-wiper, heater, fan , surge protection
- Dual stream, ONVIF support

Specification

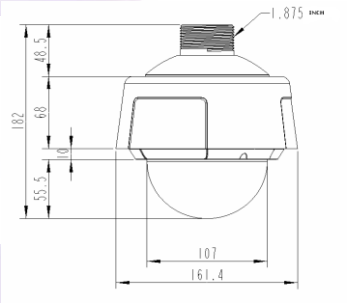
Model / ITEM	1.3Mega Pixel SMM-UD13HD-18LZ	2.0 Mega Pixel SMM-UD20HD-20LZ
Image Sensor	1/2.8'' Hitachi HD CCD zoom 18x	1/2.8'' Sony HD CCD zoom 20x
Scan System	Progressive 1.3 Million pixel	Progressive 2.0 Million pixel
Zoom	X 18 optical / X12 digital, 5.2 sec	X 20 optical / X12 digital , 4.9 sec
Focal length	F=4.7~84.6 mm	F=4.7~94 mm
Focus / Lens IRIS	Auto / Manual , F1.6~F36.2	Auto / Manual , F1.6~F35
Minimum Illumination	0.02 lux (IRC off), 0.005 lux (IRC on)	0.26 lux (IRC off), 0.005 lux (IRC on)
Auto/ Manual function	Shutter speed/ gain control/ white balance	Shutter speed/ gain control/ white balance
BLC / WDR / day & night	On, off / yes / yes	On, off / yes / yes
Signal Vs Noise ratio	More than 50dB	More than 50dB
IR distance	Over 100 M	Over 100 M
Compression format	H.264 main stream	H.264 main stream
resolution	720P(1280x720), sub (640x320) dual stream	1080P(1920x1080), sub (640x320) dual stream
Video code rate	32kbps~16Mbps (1~25 frame)	32kbps~16Mbps (1~30 frame)
Web interface	10/100base T, RJ45	10/100base T, RJ45
Alarm interface	Switch in X 1, Switch out X 1	Switch in X 1, Switch out X 1
Storage interface	X1 CF card interface built in	X1 CF card interface built in
Audio interface	X1 input Mic, X1 output speaker (bi-directional)	X1 input Mic, X1 output speaker (bi-directional)
Network protocol	TCP/IP, ARP, IGMP,FTP,RTP/RTSP, NTP, DNS, DDNS, SNMP, PPPoE	TCP/IP, ARP, IGMP,FTP,RTP/RTSP, NTP, DNS, DDNS, SNMP, PPPoE
Special feature	Support heartbeat detection, intelligent retransmission, restructuring transverse NAT/ANR	Support heartbeat detection, intelligent retransmission, restructuring transverse NAT/ANR
Application	Alarm linkage, voice monitoring, talk back	Alarm linkage, voice monitoring, talk back
OSD & Image control	Yes, bright /contrast /saturation	Yes, bright /contrast /saturation
Setting & maintenance	Support Web browser configuration management and video browser	
	Connect to platform NVR for parameter configuration and status management	
Mobile monitoring	Smart phone	Smart phone
Power Input Consumption	30W(no heater) , 40W(with heater) except IR Lamp	30W(no heater) , 40W(with heater) except IR Lamp
Input power	24 VAC	24 VAC
Operating Temp	-40°c to 55°c	-40°c to 55°c
Operating Humidity	10% ~ 90%	10% ~ 90%
Net weight	12kg body only except IR Lamps	12kg body only except IR Lamps

※ The specifications are subject to change without notice.

Mega-pixel HD(1920x1080) IP dome Camera

SMM-SD20HD-20





Features

- 1.3M Hitachi 18X / 2.0 M Sony HD 20x optical HD zoom camera module
- Outdoor/Indoor, Al-alloy, IP66, CE, FCC, ROHS
- HD module with BLC, WDR, day & night image
- support setting virtual zero position
- 255 preset, auto pan scanning
- 360° continuously pan, auto-flip tilt rotation
- Built in heater, fan ,surge protection
- Dual stream, ONVIF support

Specification

Model / ITEM	1.3Mega Pixel SMM-SD13HD-18	2.0 Mega Pixel SMM-SD20HD-20
Image Sensor	1/2.8'' Hitachi HD CCD zoom 18x	1/2.8'' Sony HD CCD zoom 20x
Scan System	Progressive 1.3 Million pixel	Progressive 2.0 Million pixel
Zoom	X 18 optical / X12 digital, 5.2 sec	X 20 optical / X12 digital , 4.9 sec
Focal length	F=4.7~84.6 mm	F=4.7~94 mm
Focus / Lens IRIS	Auto / Manual , F1.6~F36.2	Auto / Manual , F1.6~F35
Minimum Illumination	0.02 lux (IRC off), 0.005 lux (IRC on)	0.26 lux (IRC off), 0.005 lux (IRC on)
Auto/ Manual function	Shutter speed/ gain control/ white balance	Shutter speed/ gain control/ white balance
BLC / WDR / day & night	On, off / yes / yes	On, off / yes / yes
Signal Vs Noise ratio	More than 50dB	More than 50dB
Compression format	H.264 main stream	H.264 main stream
resolution	720P(1280x720), sub (640x320) dual stream	1080P(1920x1080), sub (640x320) dual stream
Video code rate	32kbps~16Mbps (1~25 frame)	32kbps~16Mbps (1~30 frame)
Web interface	10/100base T, RJ45	10/100base T, RJ45
Alarm interface	Switch in X 1, Switch out X 1	Switch in X 1, Switch out X 1
Storage interface	X1 CF card interface built in	X1 CF card interface built in
Audio interface	X1 input Mic, X1 output speaker (bi-directional)	X1 input Mic, X1 output speaker (bi-directional)
Network protocol	TCP/IP, ARP, IGMP,FTP,RTP/RTSP, NTP, DNS, DDNS, SNMP, PPPoE	TCP/IP, ARP, IGMP,FTP,RTP/RTSP, NTP, DNS, DDNS, SNMP, PPPoE
Special feature	Support heartbeat detection, intelligent retransmission, restructuring transverse NAT/ANR	Support heartbeat detection, intelligent retransmission, restructuring transverse NAT/ANR
Application	Alarm linkage, voice monitoring, talk back	Alarm linkage, voice monitoring, talk back
OSD & Image control	Yes, bright /contrast /saturation	Yes, bright /contrast /saturation
Setting & maintenance	Support Web browser configuration management and video browser Connect to platform NVR for parameter configuration and status management	
Mobile monitoring	Smart phone	Smart phone
Power Input Consumption	30W(no heater) , 40W(with heater) except IR Lamp	30W(no heater) , 40W(with heater) except IR Lamp
Input power	24 VAC	24 VAC
Operating Temp	-40°c to 55°c	-40°c to 55°c
Operating Humidity	10% ~ 90%	10% ~ 90%
Net weight	12kg body only except IR Lamps	12kg body only except IR Lamps

※ The specifications are subject to change without notice.

Mega-pixel HD(1920x1080p) IP dome Camera

SMM-SS20HD-20



Features

- 1.3M Hitachi 18X / 2.0 M Sony HD 20x optical HD zoom camera module
- Outdoor/Indoor, Al-alloy, IP66, CE, FCC, ROHS
- HD module with BLC, WDR, day & night image
- support setting virtual zero position
- 255 preset, auto pan scanning
- 360° continuously pan, auto-flip tilt rotation
- Built in heater, fan ,surge protection
- Dual stream, ONVIF support

Specification

Model / ITEM	1.3Mega Pixel SMM-SS13HD-18	2.0 Mega Pixel SMM-SS20HD-20
Image Sensor	1/2.8'' Hitachi HD CCD zoom 18x	1/2.8'' Sony HD CCD zoom 20x
Scan System	Progressive 1.3 Million pixel	Progressive 2.0 Million pixel
Zoom	X 18 optical / X12 digital, 5.2 sec	X 20 optical / X12 digital , 4.9 sec
Focal length	F=4.7~84.6 mm	F=4.7~94 mm
Focus / Lens IRIS	Auto / Manual , F1.6~F36.2	Auto / Manual , F1.6~F35
Minimum Illumination	0.02 lux (IRC off), 0.005 lux (IRC on)	0.26 lux (IRC off), 0.005 lux (IRC on)
Auto/ Manual function	Shutter speed/ gain control/ white balance	Shutter speed/ gain control/ white balance
BLC / WDR / day & night	On, off / yes / yes	On, off / yes / yes
Signal Vs Noise ratio	More than 50dB	More than 50dB
Compression format	H.264 main stream	H.264 main stream
resolution	720P(1280x720), sub (640x320) dual stream	1080P(1920x1080), sub (640x320) dual stream
Video code rate	32kbps~16Mbps (1~25 frame)	32kbps~16Mbps (1~30 frame)
Web interface	10/100base T, RJ45	10/100base T, RJ45
Alarm interface	Switch in X 1, Switch out X 1	Switch in X 1, Switch out X 1
Storage interface	X1 CF card interface built in	X1 CF card interface built in
Audio interface	X1 input Mic, X1 output speaker (bi-directional)	X1 input Mic, X1 output speaker (bi-directional)
Network protocol	TCP/IP, ARP, IGMP,FTP,RTP/RTSP, NTP, DNS, DDNS, SNMP, PPPoE	TCP/IP, ARP, IGMP,FTP,RTP/RTSP, NTP, DNS, DDNS, SNMP, PPPoE
Special feature	Support heartbeat detection, intelligent retransmission, restructuring transverse NAT/ANR	Support heartbeat detection, intelligent retransmission, restructuring transverse NAT/ANR
Application	Alarm linkage, voice monitoring, talk back	Alarm linkage, voice monitoring, talk back
OSD & Image control	Yes, bright /contrast /saturation	Yes, bright /contrast /saturation
Setting & maintenance	Support Web browser configuration management and video browser	
	Connect to platform NVR for parameter configuration and status management	
Mobile monitoring	Smart phone	Smart phone
Power Input Consumption	30W(no heater) , 40W(with heater) except IR Lamp	30W(no heater) , 40W(with heater) except IR Lamp
Input power	24 VAC	24 VAC
Operating Temp	-40°c to 55°c	-40°c to 55°c
Operating Humidity	10% ~ 90%	10% ~ 90%
Net weight	12kg body only except IR Lamps	12kg body only except IR Lamps

※ The specifications are subject to change without notice.

HD Dome Network Camera

SHD-SC38-10IP



Features

- ➢Conversion of reverse light, adjust illumination, conversion of shaking
- ➢ Face image conversion support
- ➢ ONVIF / PSIA support
- ➢ Private zone
- ➢ SDHC/SD memory card support
- ➢ Fog, sand dust conversion support
- ➢ Face Detection (with XML notification)
- ➢ KCC certification
- ➢ IP66 According to IP930100 (EN : 1038)
- ➢ Internal fan, heater(12walt)
- ➢ Operating Temperature -40 ~ +50 degree
- ➢ I/O connector (2 input , 1 output)
- ➢ Low power consumption (long lasting)
- ➢ KCC certification

Specification

ITEM	SHD-SC38-13M
Image Sensor	1/3" 1.3M pixel Panasonic Progressive MOS sensor
Resolution	1,280 X 9610 ~ 320X 240
Min. lux	Color : 0.6lx, BW : 0.5lx at F1.6(shutter : 1/30 s, AGC : High) Color : 0.038lx, BW : 0.031lx at F1.6(shutter : 16/30 s, AGC : High)
Compression method	JPEG, MPEG-4, H.264
Shutter speed	1/30 ~ 1/10,000
Frame	H.264, JPEG : up to 30fps(1,280 x 960)
Length of focus	f=4.7 ~ 84.6mm
Ratio of zoom	Max 288 times zoom (optical x18 zoom, VGA mode x36, digital x8)
White Balance	AWC(2,000) ~ 10,000K), ATW(2,700~6,000K), ATW2(2,000~6,000K)
Panning angle	Left & right : 0 ~350 degree(360 degree Pan-Flip function), up & down : -30~90 degree
Horizontal angle	3.2~55.2 degree
Focus adjustment	Auto Focus
Protocol	IPv4/v6, TPC/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP etc
Power	PoE, DC12V
Audio	Bi-directional audio (G.726 32kbps/16kbps, G.711 64kbps)
Preset	64
Net Weight	4 kg

Sunmyung ATM Solution (1)

Materials Required (Windows ATM or OS2 ATM)

To install the SM-7100 into the ATM system:

•Attach the data cable to the SM-7100 ’s DATA I/O port

•Attach another cable end, which is supplied with the SM-7100, to the other DATA I/O port of the SM-7100. Attach the other end of the cable to the ATM machine (Recommended RS-232; also, male USB is available, but USB driver should be installed)

•Attach the video output cable of video camera to the CAMERA input of the SM-7100

•Attach video cable of DVR output of the SM-7100 to the video input of DVR. To connect a monitor to the DVR, please follow the instructions provided with the DVR.

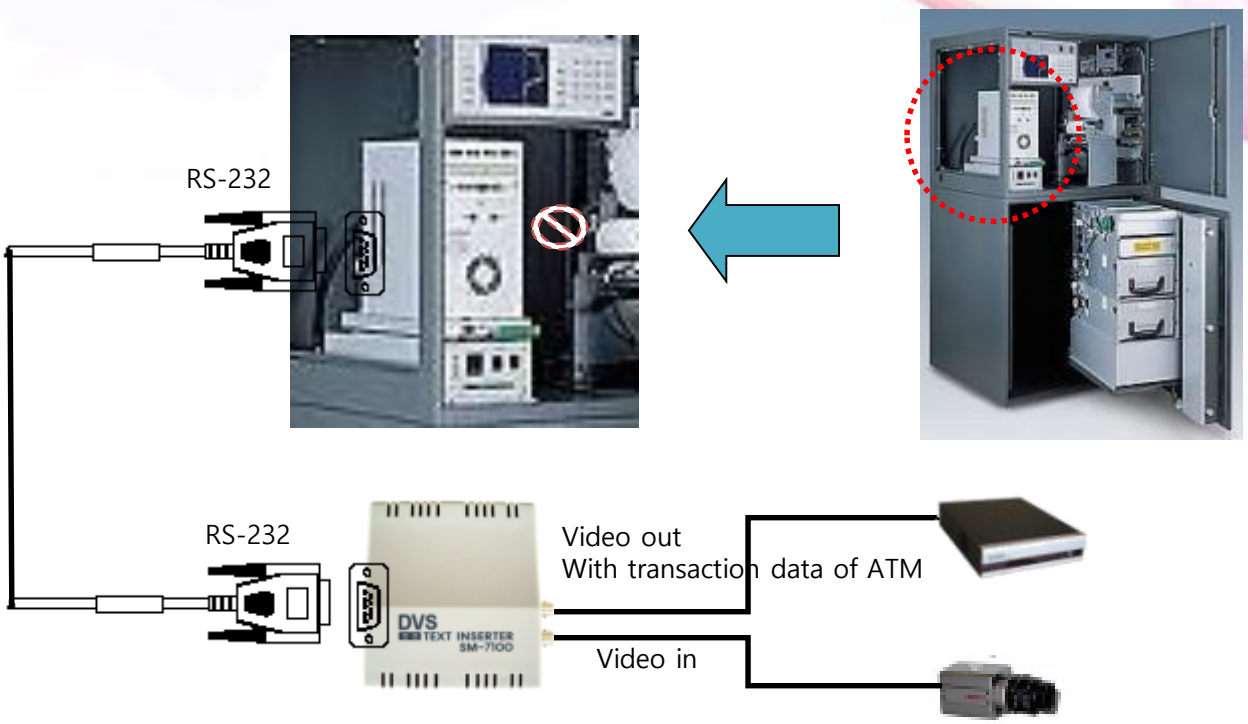
•Attach the power cord to the SM-7100’s POWER connector and plug it into a power source.

•The SM-7100 is shipped with a 1.8m data cable equipped with a RS-232 connector on each end (optional). Cables of this type are also available at computer or electronic supply stores.

Typical system installation

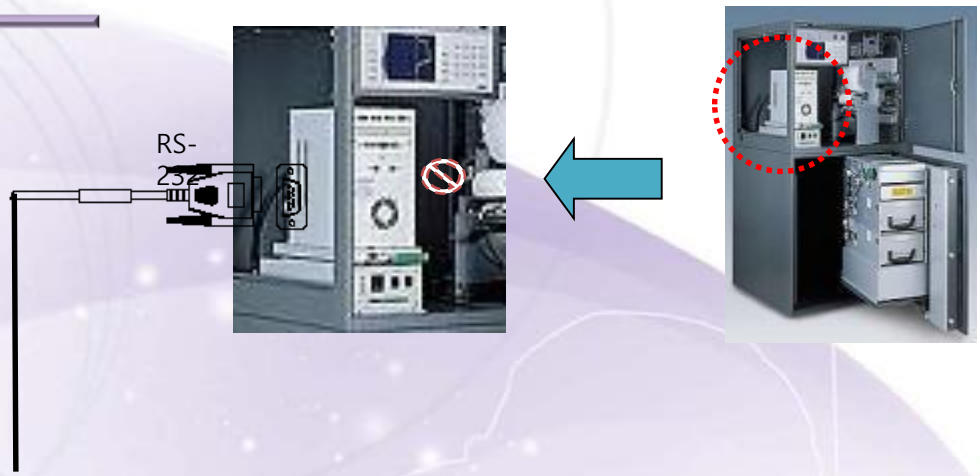
The diagram on the next page describes a typical system interface of the SM-7100 connected with ATM, camera and DVR.

Case 1) Connecting SM-7100 with ATM machine

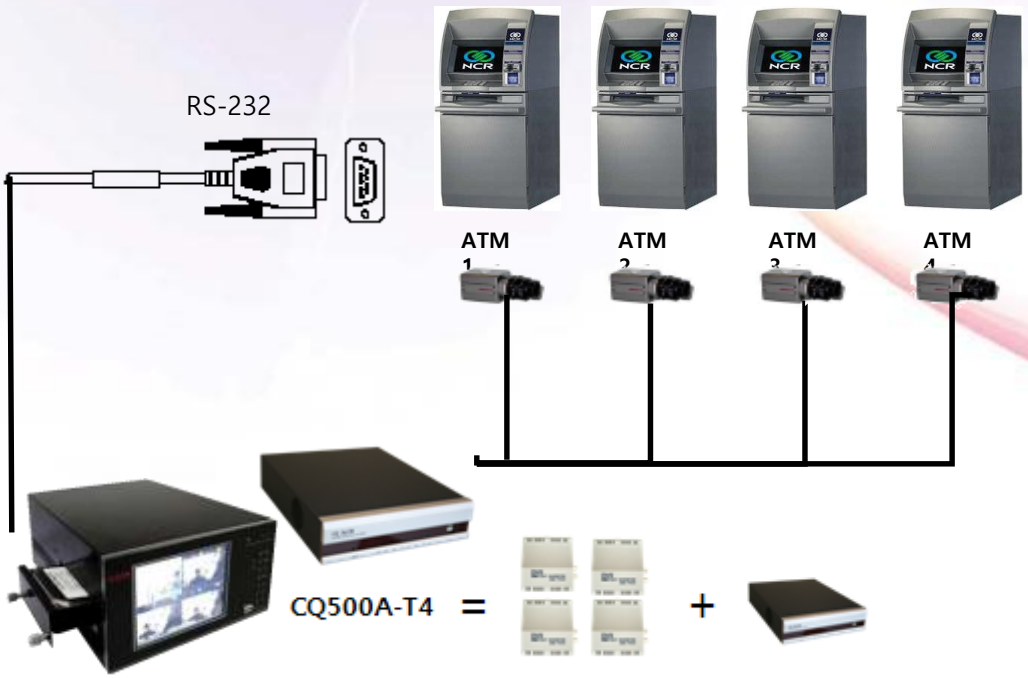


Sunmyung ATM Solution (2)

Case 2) Connecting CQ500A-T1/IRIS-04ATM-T1 with the ATM machine



Case 3) Connecting CQ500A-T4 /IRIS-04ATM-T4 with the ATM machine



The video cable of the camera for the SM-7100 must have a BNC connector. Another video cable with a BNC connector is needed to attach the SM-7100 to your DVR or monitor. Two serial data cables with the proper connectors are also required. The SM-7100 and associated equipment must have electrical power. You can find spare electrical power in ATM machine matched 12V, or should prepare additional Adapter.

Network DVR NDMS Management System





Multi-Monitor



E - Map

NDMS is the maximized PC remote management software which has been developed by Sunmyung

The user can connect concurrently to the DVR in other places to monitor, record and setup to control the DVR. Also, it is a maximized central management system which supports the Pop-up window & E-map.

< Features of NDMS >

- ▶ Remote recording & backup
- ▶ Max up to 256 DVR Access
- ▶ Monitor the channels up to 64
- ▶ Supports the Multi monitor
- ▶ Supports the Pop-up Windows
- ▶ Supports the E-map
- ▶ Powerful network streaming

SUNMYUNG Eletro-Telecom Co.,Ltd.

Network DVR Management System

NDMS 2







Multi-Monitor



E - Map

SUNMYUNG
Eletro-Telecom Co.,Ltd.

SM VIEWER

64ch CMS

for *IRIS Series*



SM Viewer is the maximized PC remote management software for IRIS Series which has been developed by Sunmyung. The user can connect concurrently to the DVR in other places to monitor, record and setup to control the DVR. Also, it is a maximized central management system which supports the Pop-up window & E-map.

< Features of SM Viewer >

- ▶ Remote recording & backup
- ▶ Monitor the channels up to 64
- ▶ Supports the Pop-up Windows
- ▶ Max up to 256 DVR Access
- ▶ Supports the Multi monitor
- ▶ Powerful network streaming
- ▶ Supports the E-map
- ▶ Supports Capture
- ▶ Supports PTZ control

SUNMYUNG
Eletro-Telecom Co.,Ltd.

Net VIEWER

16ch CMS

for *IRIS Series*



SM Viewer is the maximized PC remote management software for IRIS Series which has been developed by Sunmyung. The user can connect concurrently to the DVR in other places to monitor, record and setup to control the DVR. Also, it is a maximized central management system which supports the Pop-up window & E-map.

< Features of SM Viewer >

- ▶ Remote recording & backup
- ▶ Monitor the channels up to 64
- ▶ Supports the Pop-up Windows
- ▶ Max up to 16 DVR Access
- ▶ Supports the Multi monitor
- ▶ Powerful network streaming
- ▶ Supports the E-map
- ▶ Supports Capture
- ▶ Supports PTZ control

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Network DVR Management System

E – Map 1

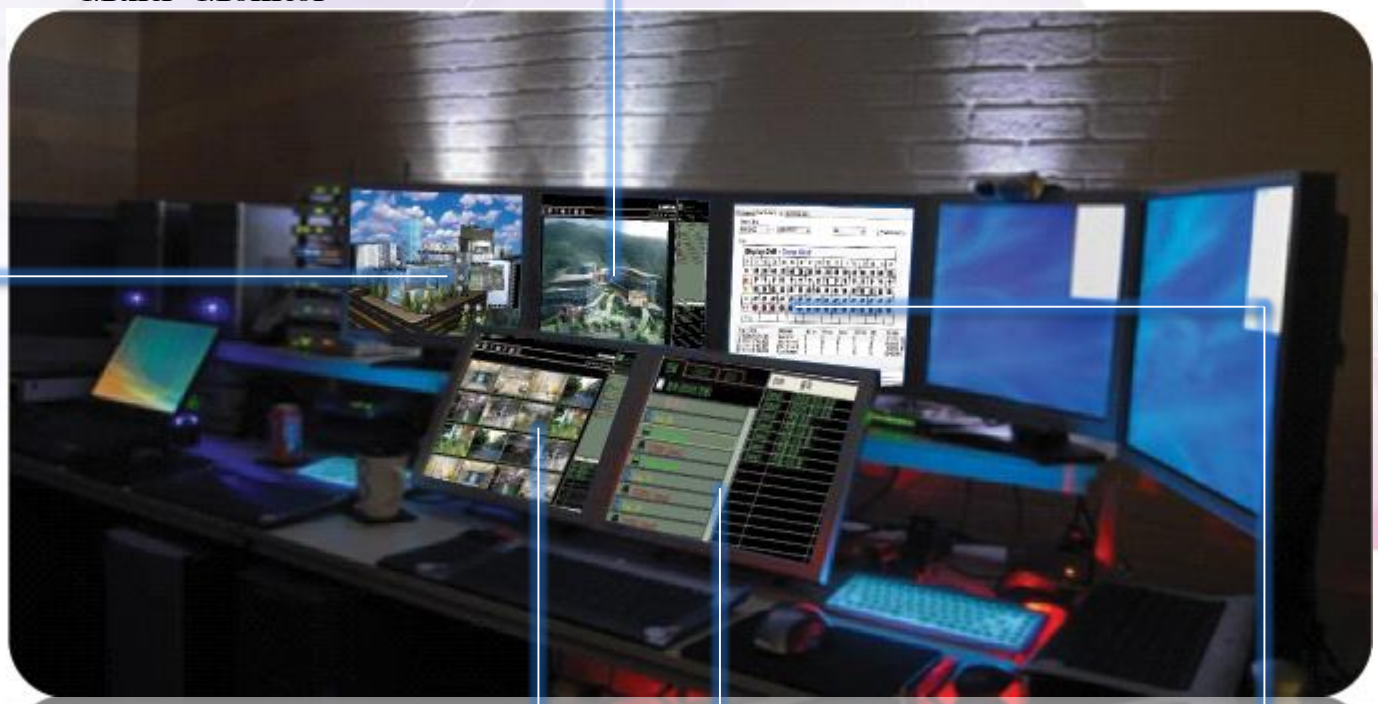


E – Map 2



By supporting the E-map feature,
the user can monitor conveniently.

Multi - Monitor



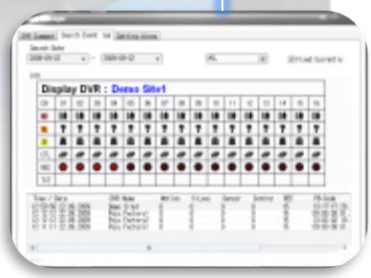
By supporting the multi monitor and Pop-up windows,
It enables to manage effectively in one PC



Remote monitoring



Multi DVR Connection



Event Log Search