





PC based DVR Card


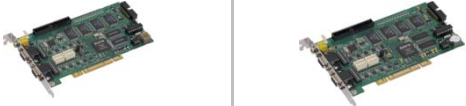
Features

- ❖ Image Resolution(NTSC/PAL): Max. 720 X 480 / 720 X 576
- ❖ Emergency Restore: Watch-dog function
- ❖ Support External Monitor
 - ES Series: Switching
 - ESCR/ESM Series: Multi-view
- ❖ PTZ Control: Support with Extension Card (RS-485, RS-422)
- ❖ DI / DO: Support with Extension Card (Max. 16/16)
- ❖ Camera Input Port: BNC (8CH Multi Cable with 16CH DVR Card)
- ❖ Network: 10/100 Fast Ethernet, PSTN
- ❖ Network Connection: Client Program, Internet Explorer, Pocket PC 2003 Install PDA
- ❖ Supported O.S: Microsoft Windows 2000/XP/Vista



Software MPEG4 Compression Cards

	ES0403 ES0403LP	ES0412	ES1606 ES1606LP	ES1612/ES1612L P	ES1624	ES3212	ES3224 ES3224EX
Picture							
Input Camera	4CH		16CH		32CH		
Recording(NTSC/PAL)	30/25 fps@CIF	120/100 fps@CIF	60/50 fps@CIF	120/100 fps@CIF	240/200 fps@CIF	120/100 fps@CIF	240/200 fps@CIF
Audio Input(RCA)	1CH	4CH	2CH	4CH	8CH	4CH	16CH
Multi Card	4EA	2EA	4EA	2EA	-	2EA	2EA
Compression Codec	M-JPEG & MPEG4 (Selectable)						

Software MPEG4 Compression Card & Real-Time Display Cards






	ESCR12-4	ESCR12	ESCR24	ESCR48
Picture				
Input Camera	4CH		16CH	
Display(NTSC/PAL)	120/100 fps		480/400 fps	
Recording(NTSC/PAL)	120/100 fps@CIF	120/100 fps@CIF	240/200 fps@CIF	480/400 fps@CIF
Audio Input(RCA)	4CH	4CH	16CH	16CH
Compression Codec	M-JPEG & MPEG4 (Selectable)			

Hardware MPEG4 Compression Cards





	ESM44	ESM48	ESM48EX	HP3000
Picture				
Input Camera	4CH	8CH		8CH
Recording(NTSC/PAL)	120/100 fps@D1	240/200 fps@D1		240/200 fps@D1
Audio Input(RCA)	4CH	8CH		8CH
Multi Card	4EA			
Compression Codec	MPEG4 ASP @ Level 5			H.264

Accessories

Model Name	ESR48	ESAC16	ESA01	ESA04	ESA08
Card Images					
Descriptions	Overlay Card	Audio Capture Card	Audio Extension Cards		
Function	16CH Real-Time Display (Overlay) - 480/400fps Display	Capture 16CH Audio	Input 1CH Audio	Input 4CH Audio	Input 8CH Audio

Model Name	ESA16	ESSA044P	ESSA164P	ESS12	ESA12
Card Images					
Descriptions	Audio Extension Cards	Sensors and Alarms Controller			
Function	Input 16CH Audio	Input 4CH Sensor, 4CH Alarm & PTZ Port	Input 16CH Sensor, 4CH Alarm & PTZ Port	Input 12CH Sensor	Input 12CH Alarm




Model Name	ESSA1616	ESSA1604C	ESSA1616C	ESWG
Card Images				
Descriptions	Sensors and Alarms Controller			Converter
Function	Input 16CH Sensor & Output 16CH Alarm	Input 16CH Sensor & Output 4CH Alarm (Y-cable)	Input 16CH Sensor & Output 16CH Alarm (Y-cable)	Convert RS-232 to RS-485 & 422

Model Name	EVOOut Ext 1604	EVOOut Ext 3204	EVOOut Ext 6404	EV Loop Ext 16
Card Images				
Video Input	16 CH	32 CH	64 CH	16 CH
Video Output	4 CH	4 CH	4 CH	16 CH
	Switching Output	Switching Output	Switching Output	Video Loop Out

📁 Network Video Encoder

Features




- ❖ MPEG4 D1 Full Frame Network Video Encoder
- ❖ Multi Codec Support: M-JPEG, MPEG4
- ❖ Dual Stream Support
- ❖ RTSP/RTP – based Interface
- ❖ De-interlacing in Hardware Encoding Engine
- ❖ Video Stream Encryption
- ❖ Text OSD Support (Inserted before Compression)
- ❖ PoE (Power over Ethernet): Support (Option)
- ❖ Network: 10/100 Fast Ethernet
- ❖ DDNS(Dynamic Domain Name Service) Server Support
- ❖ Network Connection: Client Program, Recorder Program, Internet Explorer

		ESNVE1000	ESNVE2000		ESNVE4000	
Picture						
Video	Input	1CH	Single Stream 2CH	Dual Stream 1CH	Single Stream 4CH	Dual Stream 2CH
	Output	1 Loop Out	-	1 loop Out	2 loop Out	1 Quad
	Compression	M-JPEG & MPEG4 (Selectable per Channel)				
	Resolution(NTSC/PAL)	720 X 480, 704 X 480, 352 X 240 / 720X576, 704 X 576, 352 X 288				
	Compression FPS	30/25 fps@D1	60/50 fps@D1		120/100 fps@D1	
Audio	Input	1CH	2CH		4CH	
	Output	1EA				
	Compression	G.711				
Digital Input / Output		1 / 1 CH	2 / 2 CH		4 / 4 CH	
PTZ Port		RS-485, RS-232				
Protocol		SNTP, DHCP, UDP, TCP, RTP, RTSP (Multicast)				
Power Consumption(12V)		413mA	547mA		848mA	
Temperature		0°C ~ 60°C (32°F ~ 140°F)				
Humidity		Up to 85% RH				
Dimension		103(W) x 38(H) x 142(D) mm	103(W) x 38(H) x 142(D) mm		138(W) x 38(H) x 184(D) mm	
Weight		382 g	384 g		636 g	

IP Camera

Features

- ❖ MPEG4 D1 Full Frame Network Video Encoder
- ❖ Multi Codec Support: M-JPEG, MPEG4
- ❖ RTSP/RTP – based Interface
- ❖ De-interlacing in Hardware Encoding Engine
- ❖ Video Stream Encryption
- ❖ Text OSD Support (Inserted before Compression)
- ❖ PoE (Power over Ethernet): Support (Option)
- ❖ Network: 10/100 Fast Ethernet
- ❖ DDNS(Dynamic Domain Name Service) Server Support
- ❖ Network Connection: Client Program, Recorder Program, Internet Explorer

	ESIPC1100	ESIPC3100	ESIPC3500	ESIPC4100-I	ESIPC4100-O	ESIPC4500	ESIPC5100
Picture							
Description	Standard Box	Indoor Dome	Vandal Proof	Indoor PTZ	Outdoor PTZ	Vandal Proof Outdoor PTZ	Indoor PTZ
CCD Type / Size	Sony 1/3" Super HAD CCD			Sony 1/4" Super HAD CCD			
Lens	Not Supplied	4~9mm Vari-focal Auto IRIS		25X Optical(3.8~95mm), 23X Optical(3.8~87.4mm)		3.8~38mm(10x)	
Digital Zoom	N / A			10X			
PTZ	N / A			360°		0° ~ 355°	360°
Video Compression	M-JPEG & MPEG4 (Selectable per Channel)						
Resolution(NTSC/PAL)	720 X 480, 704 X 480, 352 X 240 / 720X576, 704 X 576, 352 X 288						
Compression FPS	30/25 fps@D1						
Audio Input / Output	1 / 1 CH						
Audio Compression	G.711						
PoE	Support(Optional)			N / A			
Digital Input / Output	1 / 1 CH			2 / 1 CH			
PTZ Port	RS-485, RS-232						
Protocol	SNTP, DHCP, UDP, TCP, RTP, RTSP (Multicast)						
Power Source	12VDC 1A	12VDC 700mA		24VAC 1A		24VAC 2A	12VDC 1A
Operating Temperature	0°C ~ 60°C (32°F ~ 140°F)						
Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F)						
Humidity	Up to 85% RH						
Dimension	68(W)x74(H)x133(D)mm	135(W)x115(H)mm	140(W)x112(H)mm	Φ137.3 x 206(D) mm		Φ273.8x296.5(D)mm	Φ164x140(D)mm
Weight	343 g	868 g	1268 g	1780 g		4580 g	1480 g

Software

Recorder Program



- Support various recording methods
motion detection, continuous and sensor
- MPEG4 & M-JPEG compression codec
- Setup image quality & frame rate for each camera
- Support watermark
- Voice chatting with client
- Max 16CH sensor input & Max 16CH alarm output
- Pan, Tilt & Zoom control
Basically, included 26 kinds of receiver protocol
- Management of client connection in dynamic IP environment using Web based Client Management Software
- Support Web Server
It can be connected through Internet Explorer without client program.
- Support 1CH spot monitor switching signal
- Management of Client User
register & delete user, authorization setting for each user

Replay & Serch



- ❖ Max 16ch, Support picture division
- ❖ Serch motion detection
- ❖ Various serch funtion
- ❖ Easy handling date,time option
- ❖ adjust Bright and back light,zoom funtion
- ❖ JPEG image file save stop video
- ❖ Output stop video by print
- ❖ The same time video & audio backup AVI & DAT format
- ❖ Support backup view data ,replay
- ❖ Thumbnail serch- 1 minute,10 minute unit image serch

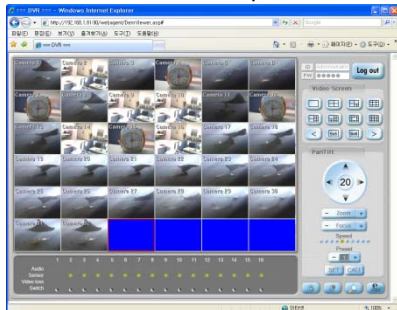
Client



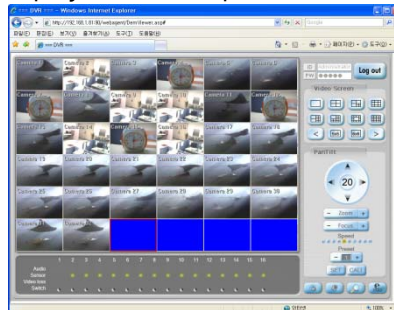
- TCP/IP using transfer realtime video,audio.
- Site management using address Data.
- The same time connection management MAX 1,024 site.
- MAX 32,768 camera video monitoring possible.
- Screen exchange the other site one click.
- Client serchge DVR saved data.,and audio,AVI backup, Remote Client exchange DVR setup.
- Adjust transfer speed video,resolution.
- Adjust Pan,Tilt,Zoom.
- Chating two way audio.
- Various screen division.(64ch)
- PC DVR + Standalone + IP camera + Network Video Sever connection management the same time

Internet Explore

- Realtime video receipt



- Replay serch receipt



PDA Phone



- ❖ A wireless client connection with PDA which contains microsoft pocket PC 2003.
- ❖ CDMA using connection data communication
- ❖ IEEE 802.11b and 802.11g Wireless
- ❖ Support wireless network
- ❖ data serch of DVR storage
- ❖ JPEG image file save stop video