

RAV Series**RAV-413E-K / RAV-813E-K / RAV-1613E-K****4/8/16 CH AHD 1080P DVR****1080P****Support
960H**

Main Features

- 4/8/16 CH AHD 1080P@30fps input, 720P@60/30fps input, analog 960H/D1@30fps input
- AHD 1080P/720P@15fps recording
960H/D1@30fps recording
- 4/8/16 CH sync playback
- 960H supported
- RS-485 serial interface
- Live display, playback and recording simultaneously



**Display different sources
on the same screen,
no setting needed**

Model		RAV-413E-K	RAV-813E-K	RAV-1613E-K	
Camera Input		4CH AHD	8CH AHD	16CH AHD	
Housing		K			
Video	Input	AHD: 1080P @ 30/25 fps, 720P @ 60/50 fps, 720P @ 30/25 fps 960H / D1			
	Output	1 HDMI with Audio and 1 VGA (Max. 1920x1080) 1 Main BNC			
Audio	Input	1 RCA			
	Output	1 RCA			
System	Operating System	Embedded Linux OS			
	SATA Devices	Max. 1 x SATA Device (HDD x 1)			
	External HDD	N/A			
	Alarm In / Relay Out	N/A			
	Serial Interface	RS-485			
	USB 2.0 Ports	USB2.0 X2			
	Dimension (mm)	280(w)x51(h)x203(d)			
Display	Power Rating	12V 2A, 24W		12V 3.33A ,40W	
	Split Screen	1,4, SEQ.	1,4, 8, SEQ.	1, 4, 9, 13, 16,SEQ.	
	Auto Channel Switching Mode	Switching time : 1 ~ 99 sec Zoom, Auto SEQ.			
Recording	Compression	H.264 High Profile			
	Main (Recording) Resolution	960 x 1080 (1080P CIF), 1280 x 720; 944 x 480 ,704 x 480, 352 x 240 (NTSC) / 944 x 576 ,704 x 576, 352 x 288 (PAL)			
	Sub (Network) Resolution	640 x 360 / 352 x 240, 176 x 120 (NTSC) / 352 x 288, 176 x 144 (PAL)			
	Picture Quality Mode	10~100 levels for adjustment Continuous, Event, Schedule			
	Record Rate	NTSC 1080p CIF 60fps; 720p 60 fps	NTSC 1080p CIF 120fps; 720p 120 fps	NTSC 1080p CIF 240fps; 720p 240 fps	
		PAL 1080p CIF 50fps ; 720p 50 fps	PAL 1080p CIF 100fps ; 720p 100 fps	PAL 1080p CIF 200fps ; 720p 200 fps	
	Pre-Alarm	1 ~ 5 SEC			
Post-Alarm	1 ~ 100 SEC				
Playback	Search Mode	Date/time, Event			
	Zoom	*Digital (x2 ~ x5)			
Network	Network Interface	10/100 Ethernet		10/100/1000 Ethernet	
	Protocol	TCP/IP, SMTP, HTTP, DHCP, PPPoE(ADSL), NTP, DDNS			
	Application	Windows 7 & 8, Mac OS X			
	Remote Software	SoCatch, IE Browser, iCMS Pro			
	Account	1 Admin + 10 Users			
	Mobile Device	Windows Phone 7.8, iPhone, iPad, Android			
Backup	Interface	USB or SATA			
	Audio Backup	YES			
	Backup Type	Network, ext. USB flash device , SATA optical DVD..etc.			
Alarm	Motion Detection	Sensitivity: 100 levels for each channel Area: Programmable individually			
	Event Log	Up to the 10000 events (Sensor, Motion, video Loss, power on, remote login, logout, HDD error, HDD full)			
OSD & DVR Control	Multi-Language	Supported			
	Camera Title	Multi-Language			
	USB Mouse	YES			
	Touch Panel	Touch Panel LCD Monitor (USB Interface, EETI Chipset Only)			
	Remote Controller	Optional			
	System Upgrade	USB Flash Drive, iWatch DVR			
General	Pan/Tilt/Zoom Control	Control From RS485 Interface (Pelco P, Pelco D, Samsung, LG, LiLin)			
	Operating Temperature	-10°C ~ +55°C (14°F ~ 131°F)			
	Operating Humidity	10%~80%			

Subject to be changed without notice