

ES-Series DVR



WatchNET

Integrated Digital Technologies



ES-12004RTS-KIT / ES-24008RTS-KIT / ES-48016RTS-KIT



Embedded DVR Main Features:

- ❖ Low profile, Hi performance DVR with HDMI output
- ❖ Enhanced H.264 compression algorithm save HDD space & low bandwidth
- ❖ 400/480 fps recording for CIF and special 2 channel 4CIF Real time recording
- ❖ Multiple control methods: Front panel, IR remote controller, keyboard, USB mouse and network keyboard
- ❖ Real time live display up to 16 cameras with 720P high definition
- ❖ Variable frame recording on event with Hi Resolution switching
- ❖ Dual encoding streams support, flexible for network transmission and mobile phone monitoring
- ❖ Alarm triggering, OSD, siren, PTZ preset, e-mail, FTP upload
- ❖ Pentaplex function: live, recording, playback, backup & remote access
- ❖ 4, 8 and 16 Channel simultaneous real time playback
- ❖ Networking access for remote live viewing, recording, playback, setting, system status, event log
- ❖ Smart video motion detection, camera mask, video loss
- ❖ Smart camera settings: privacy masking, camera lock, color setting, and title display, virtual fence, smart motion search
- ❖ PTZ cameras up to 60 protocols supported
- ❖ 3D mouse control for PTZ Cameras
- ❖ Powerful 64 channel network software: built-in web server, multi-DVR client, mobile surveillance software for smart phone & CMS

Powerful Time Grid Search Function like PC Based DVR

HDMI[®]

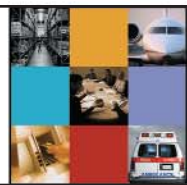
HIGH-DEFINITION MULTIMEDIA INTERFACE



64 Channel NVR Client
with IP & Megapixel camera integration included

www.watchnetdvr.com

Division of
Videon
Integrated Digital Technologies Ltd.



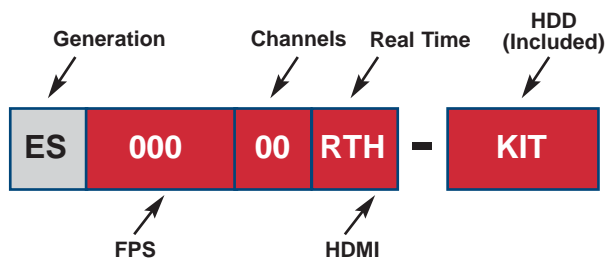
Embedded DVR Technical Specifications

Model	ES-12004RTS-KIT		ES-24008RTS-KIT	ES-48016RTS-KIT
System				
Main Processor	Ultra fast Hi performance embedded micro processor			
Operating System	Embedded LINUX - Optimized			
System Resources	Pentaplex function: live, recording, playback, backup & remote access			
User Interface	GUI, on-screen menu tips, Grid search			
Control Device	Front panel, USB mouse, keyboard, IR remote control, network keyboard			
Input Method	Alpha numeric / Denotation			
System Status	HDD status, data stream statistics, log record, bios version, on-line user etc.			
Video				
Video Input	4 channel, BNC, 1.0Vp-p, 75Ω	8 channel, BNC, 1.0Vp-p, 75Ω	16 channel, BNC, 1.0Vp-p, 75Ω	
Video Output	1 channel TV output, BNC, 1.0Vp- p, 75Ω, 1 VGA output, 1 HDMI output			
Video Standards	PAL(625Line, 50f/s), NTSC(525Line, 60f/s)			
Video Compression	Format	NTSC	PAL	
	D1(4CIF)	704 X 480	704 X 576	
	CIF	352 X 240	352 X 288	
	QCIF	176 X 120	176 X 144	
Video Recording	CIF/QCIF: PAL 1f/s~25f/s, NTSC 1f/s~30f/s 2CIF: PAL 12f/s / NTSN 15f/s 4CIF: PAL 6f/s / NTSC 7.5f/s Dual video encoding streams supported			
	D1@30fps only on Ch1 for 4 channel DVR	D1@30fps only on Ch1 for 8 DVR	D1@30fps only on Ch1 & Ch9 for 16 channel DVR	
Video Display Split	1 and 4 view	1, 4, 8 and 9 view	1, 4, 8, 9, and 16 view	
Sequential Display	Supported			
Image Quality	1~6 level(level 6 is the best)			
Privacy Masking	4 self-defined four-sided zones for privacy masking for each camera			
Camera Lock	Camera locked for users			
Camera Adjustment	Adjust color according to different time period day/night			
Video Information	Camera title, time, video loss, camera lock, motion detection, recording			
TV Output Adjustment	Adjust TV output color & display zone			
Audio				
Audio Input	4 channel, BNC, 200-2800mV, 30KΩ	8 channel, BNC, 200-2800mV, 30KΩ	4 channel, BNC, 200-2800mV, 30KΩ	
Bidirectional Talk Input	1 channel, BNC, 200-2800mV, 30KΩ, same with the 1 st channel			
Audio Output	1 channel, BNC, 200-3000mv, 5KΩ			
Audio Compression	Optimized G.711 Compression			
Video Detection & Alarm				
Motion Detection	Micro Grid and 396 (22*18) detection zones Sensitivity: 1~6 (level 6 is highest) Record, preset, PTZ, alarm, pop-up, email, FTP			
Video Loss/Camera Mask	Trigger recording, PTZ movement, tour, alarm, email			
Alarm Input	4 channel, programmable, ground, manual open/closed Trigger recording, PTZ movement tour, alarm, email	8 channel, programmable, ground, manual open/closed Trigger recording, PTZ movement tour, alarm, email	16 channel, programmable, ground, manual open/closed Trigger recording, PTZ movement tour, alarm, email	
Relay output	3 channel, 30VDC, 1A, NO/NC, form-C	3 channel, 30VDC, 1A, NO/NC, form-C	3 channel, 30VDC, 1A, NO/NC, form-C	
Hard Disk	1 SATA HDD up to 2TB			
HDD Space	Audio: 14.4MB/H Video: 56 ~ 500MB/H			
HDD Management	HDD-fault, low disk space			
Auxiliary Interface				
USB Interface	2 ports, 1 for mouse control, 1 for backup			
RS232	Keyboard, PC communication			
RS485	PTZ control			

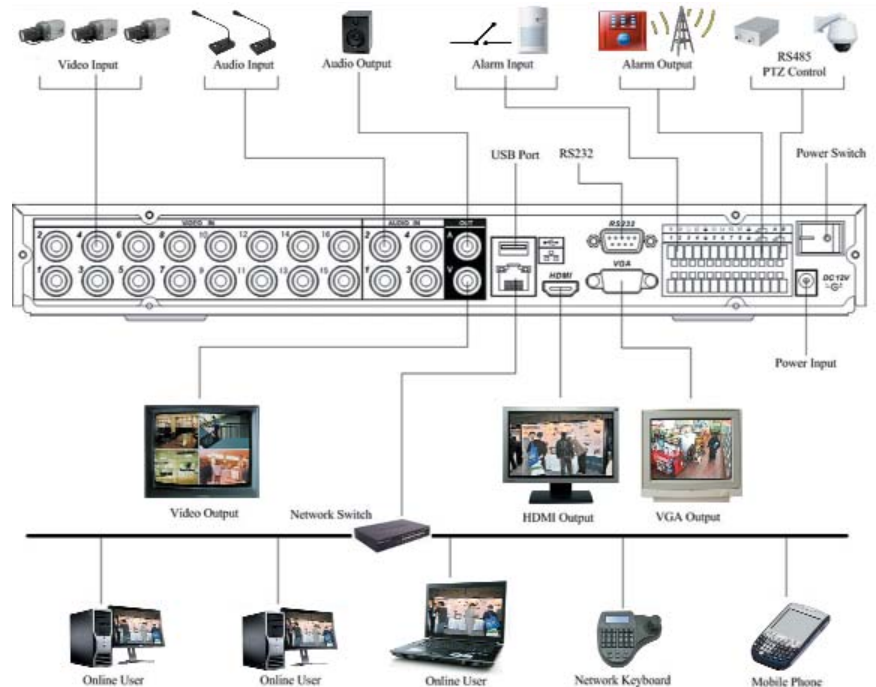
Model	ES-12004RTS-KIT	ES-24008RTS-KIT	ES-48016RTS-KIT
Network			
Interface	RJ-45 Port (10/100M)		
Network Function	TCP/IP, UDP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Email, Alarm Server, RSTP, RTP		
Remote Operation	Monitor, PTZ control, playback, system setting, file download, log information		
Record, Playback & Backup			
Recording Mode	Manual, continuous, motion detection, camera mask, video loss, area detection, alarm input		
Recording Priority	Manual >Alarm >Video Detection >Continuous		
Recording Interval	1 to 120 minutes (default: 60 minutes), Pre-record up to 30 seconds, Post-record up to 5 minutes		
Overwrite Mode	Supported FIFO		
Micro Grid Search	Time/Date, Alarm, Motion Detection, area search, exact search (accurate to second)		
Playback	4, 8 and 16 channel playback simultaneously, pause, stop, rewind, fast play, slow play, next file, previous file, next camera, previous camera, full screen, repeat, shuffle, backup selection		
Digital Zoom	Selected zone can zoom into full screen during playback		
Backup Mode	Flash disk/ USB HDD/ USB CD/DVD-RW/ / Network download		
Environmental			
Power Supply	220V 50Hz / 110V 60Hz		
Power consumption	25W		
Working Temperature	-10° ~ +55°		
Working Humidity	10% ~ 90%		
Atmosphere Pressure	86kpa~106kpa		
Dimension	1U, 375mmx285mmx45mm (W*D*H)		
Weight	2.35KG(without HDD)		
Mounting	Desktop		
Integration			
ATM	All major ATMs integrated through Network		
POS	Text Display & Alarm Search Supported		

All product specifications on this brochure are subject to change without notice.

Model Reference Chart



Connection Diagram





Embedded 8TB DVRs, CMS & PTZ
with Auto Trace Function & POS Integration



Real Time
Stand Alone ATM DVR



Mobile DVR with
Real time GPS Tracking/Viewing



Intelligent Motion Tracking



Megapixel NVR Hybrid
Scalable from 4 to 64 Channels



XDD
XTREME DIGITAL DYNAMICS

Ultra Hi Resolution Vandal Dome Camera

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