

EL-Series DVR



BlackBerry

iPhone

Windows

Android Phone



CE FC U

WatchNET

Integrated Digital Technologies



EL-12004RTSH KIT, EL-24008RTSH KIT, EL-48016RTSH KIT
Embedded DVR



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 & special 2 channel 4CIF Real time recording
- ❖ Multiple control methods: Front panel, IR remote controller, keyboard, USB mouse & 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

 **MAC OS Compatible**

www.watchnetdvr.com

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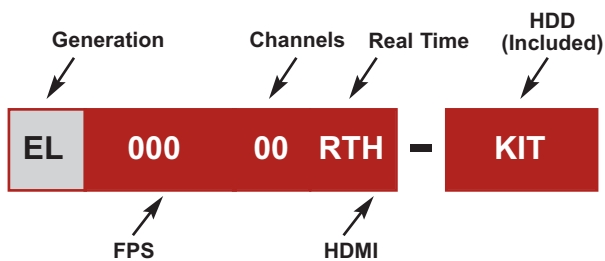
Division of
Videon
Integrated Digital Technologies Ltd.



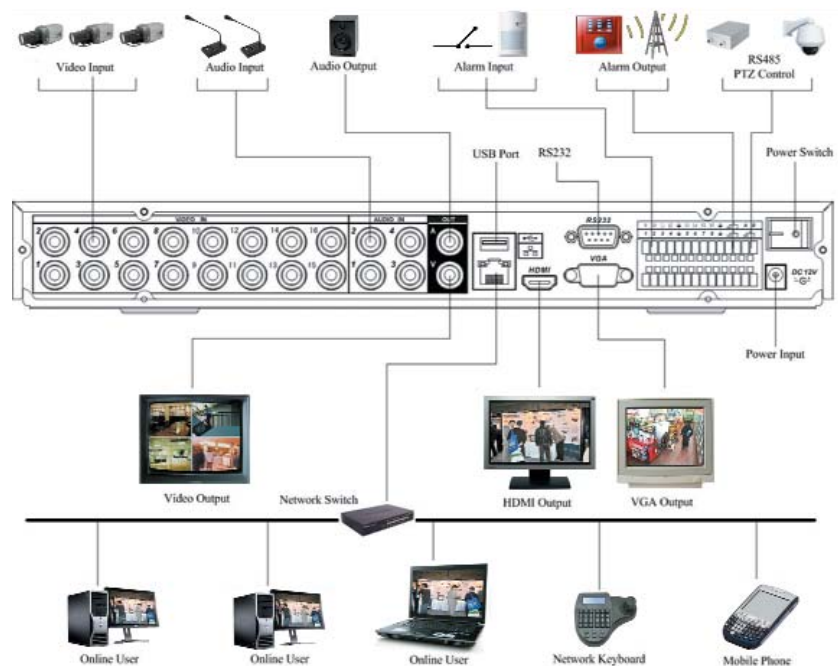
System	EL-12004RTSH KIT	EL-24008RTSH KIT	EL-48016RTSH KIT
Main Processor	Ultra fast Hi performance embedded micro processor		
Operating System	Embedded LINUX-Optimized		
System Resources	Pentaplex function: live, recording, playback, backup & remote access		
User Interface	GUI, on-screen menu tips, Grid search		
Control Device	Front panel, USB mouse, net 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, looping	8 channel, BNC, 1.0Vp-p, 75Ω, looping	16 channel, BNC, 1.0Vp-p, 75Ω, looping
Video Output	1 channel TV output, BNC, 1.0Vp-p, 75Ω, 1 VGA output, 1 HDMI output		
Video Standards	PAL(625Line, 25f/s) or NTSC(525Line, 65f/s)		
Video Compression	Format D1(4CIF) CIF QCIF	NTSC 704 X 480 352 X 240 176 X 120	PAL 704 X 576 352 X 288 176 X 144
Video Resolution	NTSC CIF 352 X 240 D1(4CIF) 704 X 480		PAL CIF 352 X 288 D1(4CIF) 704 X 576
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 1st channel		
Audio Output	1 channel, BNC, 200-3000mv, 5KΩ		
Audio Compression	Optimized G.711 Compression		
Hard Disk			
Hard Disk	4 SATA ports, 4HDD supported		
Space Occupation	Audio; 14.4MB/H Video: 56~500MB/H		
HDD Management	HDD-fault, low disk space		
Video Detection & Alarm			
Motion Detection	Micro Grid and 396 (22*18) detection zones Sensitivity: 1~6 (level 6 is highest) Record, preset, PTZ, tour, alarm, pop-up, e-mail, FTP		
Video Loss / Camera Mask	Trigger recording, PTZ movement, tour, alarm, e-mail		
Virtual Fence	Trigger recording, PTZ movement, tour, alarm, e-mail & ftp upload		
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		

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
Raid Function / Redundancy	Supported
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
Network	
Interface	RJ-45 Port (10/100M)
Network Functions	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
Auxiliary Interface	
USB Interface	2 ports, 1 for mouse control, 1 for backup
RS232	Keyboard, PC communication
RS485	PTZ control
Environmental	
Power Supply	220V 50Hz / 110V 60Hz
Power consumption	25W
Working Temperature	-10°C ~ +55°C
Working Humidity	10% ~ 90%
Atmosphere Pressure	86kpa ~ 106kpa
Dimension	1U, 375mmx285mmx45mm (W*D*H)
Weight	2.5KG without HDD
Mounting	Desktop
Integration	
ATM	All major ATMs integrated through Network
POS	Text Display & Alarm Search Supported

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



Ultra Hi Resolution H.264 Compression
Vandal Dome Camera

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