



# EL-Series DVR

## WatchNET

Integrated Digital Technologies



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



### Features:

- \* Low Profile, Hi performance DVR with HDMI out put
- \* Enhanced H.264 compression algorithm save HDD space & low bandwidth
- \* 400/800 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 and 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

Division of:  
**Videon**  
Integrated Digital Technologies Ltd.



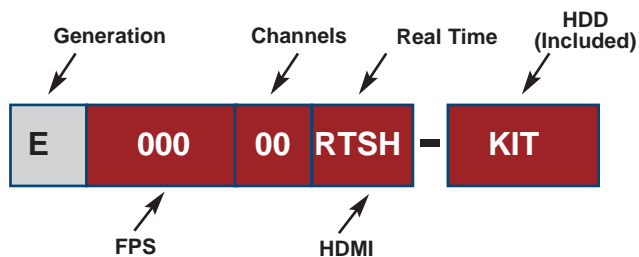
## Embedded DVR Technical Specifications

Model	EL-12004RTSH KIT		EL-24008RTSH KIT	EL-48016RTSH 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, 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)PAL(625Line, 50f/s), NTSC(525Line, 60f/s)			
Video Resolution	NTSC CIF 352 X 240 D1(4CIF) 704 X 480		PAL CIF 352 X 288 D1(4CIF) 704 X 576	
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 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 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	4 channel, BNC, 200-2800mV, 30KΩ	4 channel, BNC, 200-2800mV, 30KΩ	
Bidirectional Talk Input	1 channel, BNC, 200-2800mV, 30KΩ, same with the 1 <sup>st</sup> channel			
Audio Output	1 channel, BNC, 200-3000mv, 5KΩ			
Audio Compression	Enhanced 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			
Video Virtual Fence	Trigger recording, PTZ movement, tour, alarm, e-mail & ftp upload			
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			

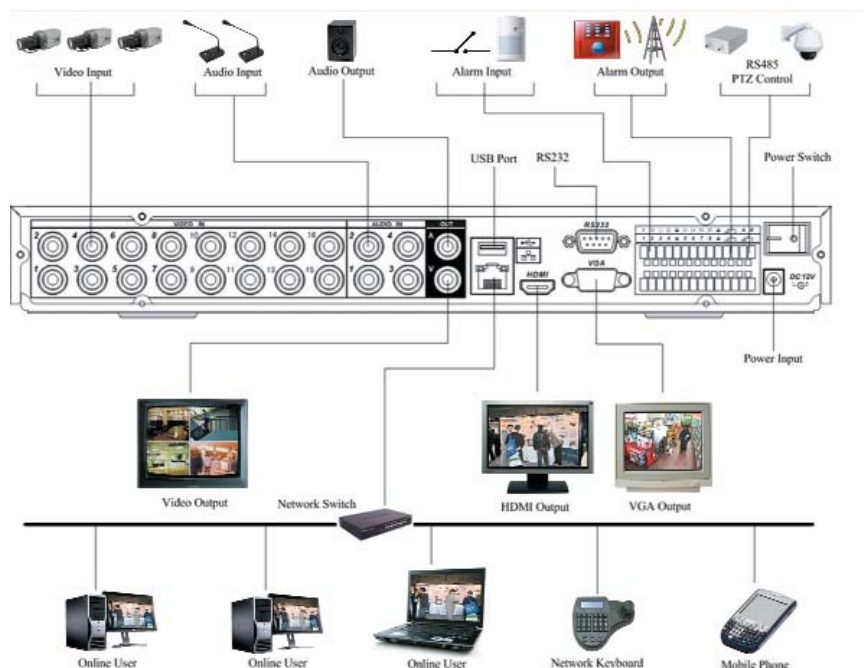
Network	
Interface	RJ-45 Port (10/100M)
Network Function	TCP/IP, UDP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Email, Alarm Server, RSTP, RTP
Remote Operation	Monitor, PTZ control, playback, system setting, file download, log information
Record, Playback & Backup	
Recording Mode	Manual, continuous, motion 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°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

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### 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 Vandal Dome Camera

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