



## EL - SERIES



CE FC UL

EL-12004RTS, EL-24008RTS, EL-48016RTS  
Embedded DVR

# WatchNET

Integrated Digital Technologies



### Features:

- ❖ H.264 compression algorithm ideal for standalone DVR
- ❖ Variable frame recording (normal / motion)
- ❖ Real time live display up to 16 cameras, 400/480 fps recording for CIF, 100/120 fps recording for D1
- ❖ Pentaplex function: live, recording, playback, backup & remote access  
4 HDDs supported & CD-RW/DVD-RW supported
- ❖ 4 channel audio inputs and bidirectional talk supported
- ❖ Multiple control methods: Front panel, IR remote controller, keyboard, USB mouse and network keyboard
- ❖ Smart video detection: motion detection, camera mask, video loss, virtual fence
- ❖ Privacy masking, camera lock, color setting, and title display
- ❖ Point to zoom control with reference cameras and intelligent mouse control
- ❖ Easy backup methods: USB devices, CD-RW/DVD-RW & network download  
Alarm triggering screen tips, buzzer, PTZ preset, e-mail, FTP upload
- ❖ Smart HDDs Management: non-working HDD hibernation, HDD faulty alarm, Raid function (Redundancy)
- ❖ Powerful network software: built-in web server, multi-DVR client & CMS
- ❖ ATM / POS Integration





## Specifications:

System	EL-12004RTS	EL-12008RTS	EL-48016RTS
Main Processor	High performance embedded microprocessor		
Operating System	Embedded LINUX		
System Resources	Pentaplex function: live, recording, playback, backup & remote access		
User Interface	GUI, on-screen menu tips		
Control Device	Front panel, USB mouse, net keyboard, IR remote control, network keyboard		
Input Method	Full QWERTY digital keyboard		
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 (1024 x 768 VGA)	2 X CCTV, 1X VGA	2 X CCTV, 1X VGA, 8CH Loopout, 1Matrix	2 X CCTV, 1X VGA, 16CH Loopout, 1Matrix
Video Standards	PAL(625Line, 25f/s) or NTSC(525Line, 30f/s)		
Video Compression	Enhanced H.264		
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 - NTSC 1f/s~30f/s; PAL 1f/s~25f/s D1(4CIF) - NTSC 1f/s-7f/s; PAL 1f/s-6f/s		
Video Display Split	1, 4	1, 4, 8	1, 4, 8, 9, 16
Sequential Display	Supported		
Image Quality	VBR / CBR Scalable Bit Rate		
Privacy Masking	8 self-defined four-sided zones for privacy masking for each camera		
Variable Frame Recording	Normal recording accelerated to desired frames on motion or alarm activation		
Color Adjustment	Scheduled Day & Night color settings		
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		
Bidirectional Talk Input	1 channel, BNC, 200-2800mV, 30KΩ		
Audio Output	1 channel, BNC, 200-3000mv, 5KΩ		
Audio Compression	ADPCM Audio Compression		
Hard Disk			
Hard Disk	4 SATA ports, 4HDD supported		
Space Occupation	Audio; 14.4MB/H Video: 56~500MB/H		
HDD Management	Hard disk hibernation technology, HDD faulty alarm & Raid (Redundancy)		

## Specifications (continues):

Video Detection & Alarm	
Motion Detection defined by zones	8 Programmable detection zones Sensitivity: 1~6 (level 6 is highest) Trigger recording, PTZ movement, tour, alarm, e-mail & ftp upload
Video Loss / Camera Mask	Trigger recording, PTZ movement, tour, alarm, e-mail & ftp upload
Virtual Fence	Trigger recording, PTZ movement, tour, alarm, e-mail & ftp upload
Alarm Input	16 channel, programmable, ground, manual open/closed Trigger recording, PTZ movement, tour, alarm, e-mail & ftp upload
Relay output	3/6/6 channel, 30VDC, 1A, NO/NC, form-C
Record, Playback & Backup	
Recording Mode	Manual, continuous, video detection (including motion detection, camera blank, video loss), Alarm
Recording Priority	Manual >Alarm >Video Detection >Continuous (variable frame)
Recording Interval	1 to 120 minutes (default: 60 minutes) Pre-record up to 30 seconds, Post-record up to 5 minutes
Overwrite Mode / Stop	Supported
Raid Function / Redundancy	Supported
Search Mode	Time/Date, Alarm, Motion Detection & exact search (accurate to second)
Playback grid	2 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/ built-in SATA Burner/ Network download
Network	
Interface	RJ-45 Port (10/100M)
Network Functions	TCP/IP, DHCP, PPPOE, DDNS, E-mail, FTP, IP Filter
Remote operation	Monitor, PTZ control, playback, system setting, file download, log information
Auxiliary Interface	
USB Interface	2 ports, (1Front, 1 Back)
RS232	Keyboard, PC communication
RS485	PTZ control
Environmental	
Power Supply	220V 50Hz / 110V 60Hz
Power consumption	25W
Working Temperature	0°C ~ +55°C
Working Humidity	10% ~ 90%
Atmosphere Pressure	86kpa ~ 106kpa
Dimension	1.5U, 440mm x 460mm x 70mm (W*D*H)
Weight	5KG without HDD
Mounting	Desktop or rack

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



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



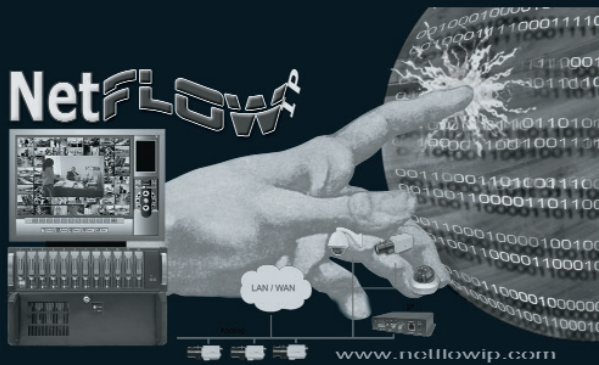
Real Time  
Stand Alone ATM DVR



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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