E-Series DVR

WatchNET
Integrated Digital Technologies

E-12004RTSH-KIT / E-24008RTSH-KIT / E-48016RTSH-KIT

HDMI | H.264 | D1 Recording | Dual Codec | 16 CH Playback | SATA HDD | USB 2.0 | Mouse | Linux | Mobile Phone | ATM / POS | eSATA

Embedded DVR Main Features:

- Hi performance DVR with HDMI & eSATA Port
- 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 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

eSATA PORT

64 Channel NVR Client
with IP & Megapixel camera integration included

Division of Videon
Integrated Digital Technologies Ltd.

www.watchnetdvr.com

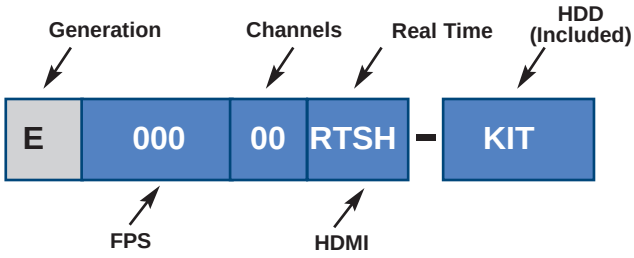
Embedded DVR Technical Specifications

Model	E-12004RTSH-KIT	E-24008RTSH-KIT	E-48016RTSH-KIT
System			
Main Processor	High performance embedded micro processor		
Operating System	Embedded LINUX		
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, 1 Matrix output		
Video Standards	PAL(625Line, 50f/s), NTSC(525Line, 60f/s)		
Video Compression	Format D1(4CIF) CIF 2CIF QCIF	NTSC 704 X 480 352 X 240 704 X 480 176 X 120	PAL 704 X 576 352 X 288 704 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		
Covert Camera	Hide camera from viewing		
Camera Adjustment	2 Color schedule 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	16 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	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	6 relay output, 30VDC, 1A, NO/NC, form-C		
Video Virtual Fence	Configurable 8 zone detection		
Hard Disk	4 SATA HDD up to 2TB	4 SATA HDD up to 2TB	8 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		

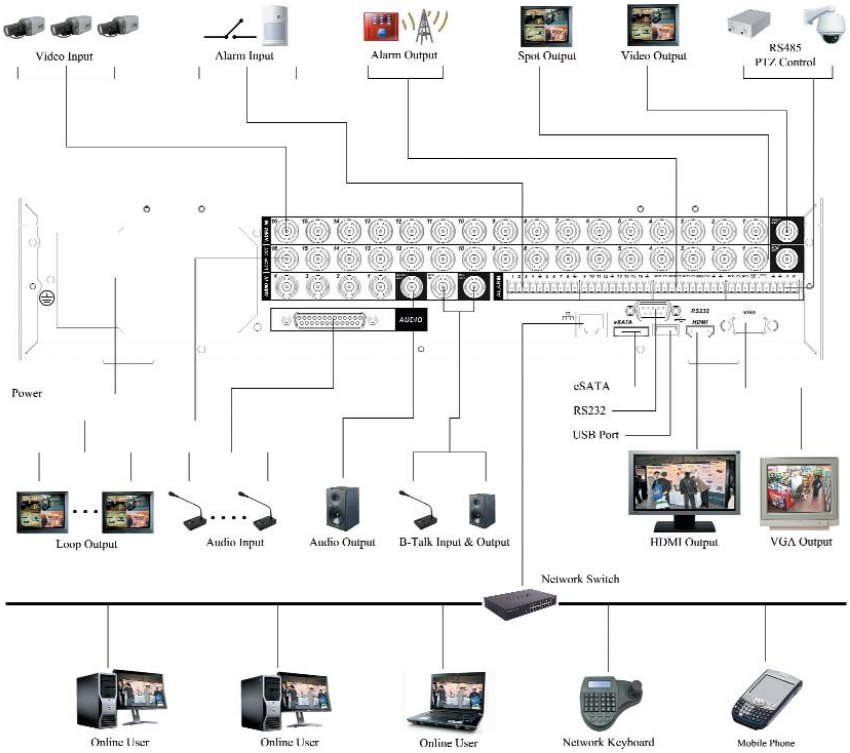
Model	E-12004RTSH-KIT	E-24008RTSH-KIT	E-48016RTSH-KIT
Network			
Interface	RJ-45 Port (10/100M)		
Network Function	TCP/IP, UDP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Email, Alarm Server, RSTP, RTP		
Remote Operation	Monitor, PTZ control, playback, system setting, file download, log information		
Record, 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	-10^0 ~ $+55^0$		
Working Humidity	10% ~ 90%		
Atmosphere Pressure	86kpa~106kpa		
Dimension	1U, 375mmx285mmx45mm (W*D*H)		
Weight	2.35KG(without HDD)		
Mounting	Desktop / Rack Mount		
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

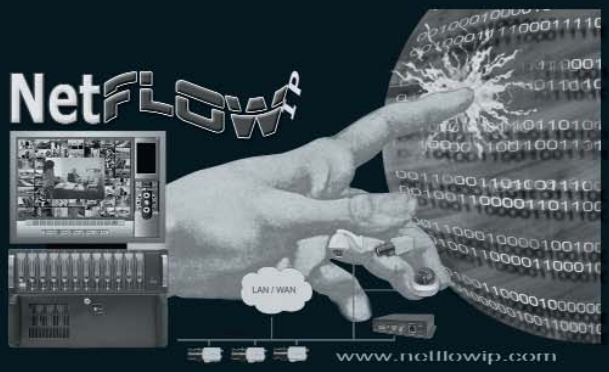


Embedded 8TB DVRs, CMS & PTZ
with Auto Trace Function & POS Integration

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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