



NDR104



Major Features

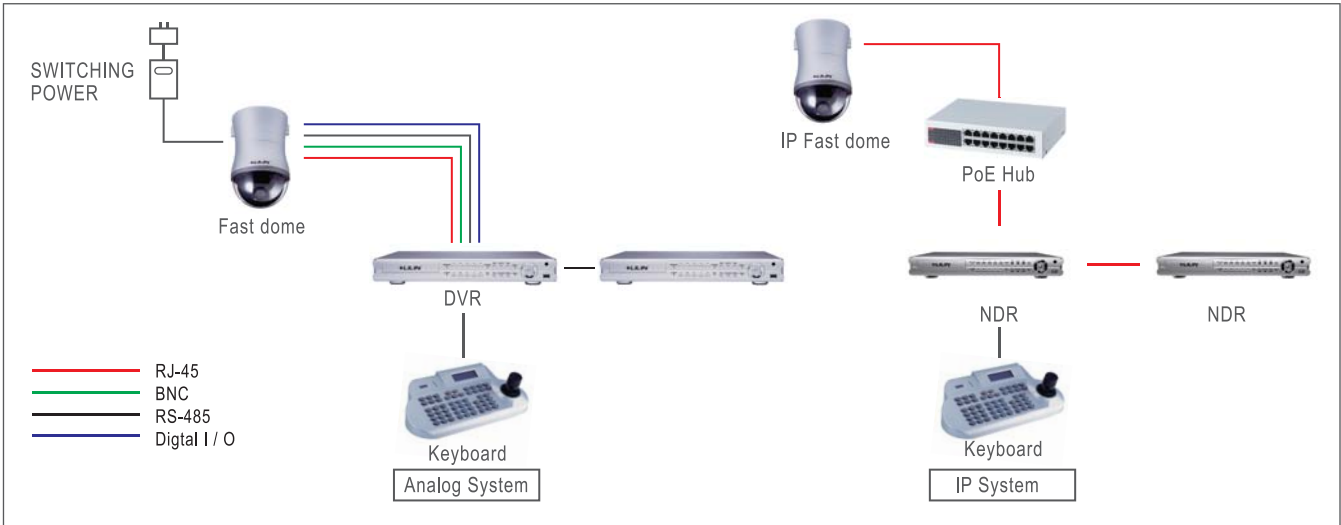
- Full D1 real-time H.264 recording and playback
- Pure hybrid, IP camera or analog camera configurable for each channel
- Extra 4 IP cameras for recording.
- ONVIF compliant protocol for IP cameras
- HDMI compliant and VGA outputs at 1080P, built-in 3D intellectual motion adoptive refinement and vivid image enhancement engines.
- HTTP web-based interface including NDR configuration, PTZ control, playback, and live monitoring
- NDRs cascaded are allowed for controlling via TCP/IP network for easy-cabling configuration
- Master and slave NDRs design allows distributed quick accessing tables for pre-programmed IP cameras and NDRs.
- 3G mobile phone solutions provided
- Resolution, frame rate, and video quality configurable for each channel
- WS-Discovery for quick IP setup of IP cameras and NDRs.
- LCD monitor backlight power saving design

Summary

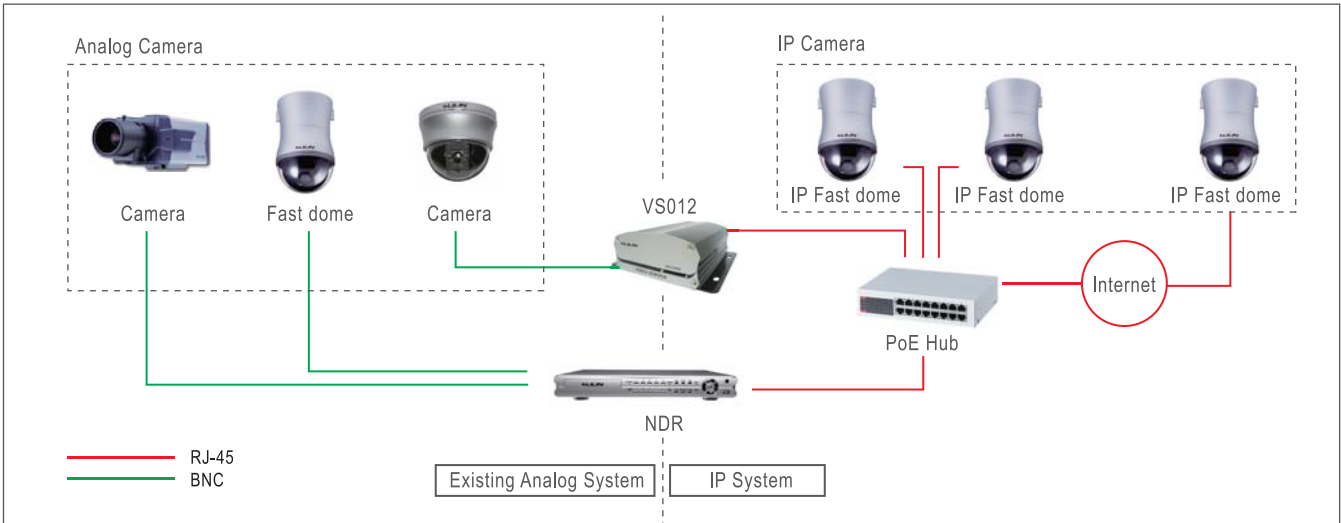
NDR series are designed to meet the demands for full D1 real-time pure hybrid IP cameras and/or analog cameras recording systems. Merit LILIN' s cutting-edge technologies adopts ONVIF compliant protocol providing flexibility and capability for users in expending systems for future without considering compatibility among cameras. NDR series adopt high compression rate H.264 full D1 real-time engine for both analog and IP camera streaming. Each channel can be configured as for IP camera or analog camera at full D1 or CIF resolution and different frame rate. Region of interest (ROI) is supported at 5X and 9X zoom capacity along with PIP for full view. NDR series provide HDMI compliant and VGA outputs for quality video output. HDMI compliant output can achieve up to 1080P resolution. HDMI compliant and VGA engines are built-in 3D intellectual motion adoptive refinement with vivid image enhancement algorithm to provide best video quality. TV wall design allows NDRs to be cascaded via TCP/IP network for easy-cabling configuration. IP cameras and analog cameras can be controlled by 3D joystick keyboard(s). Master and slave NDRs design, pre-programmed IP cameras and NDR access tables can be automatically distributed to slave NDRs for quick addressing purpose. WS-Discovery protocol allows quick IP address setup for IP cameras and NDRs.

H.264	Hybrid	GUI	Mouse	USB	Audio	Drag-n-drop
Internet	PIP	Mobile Remote Surveillance	Saving Power	Onvif Compliant		

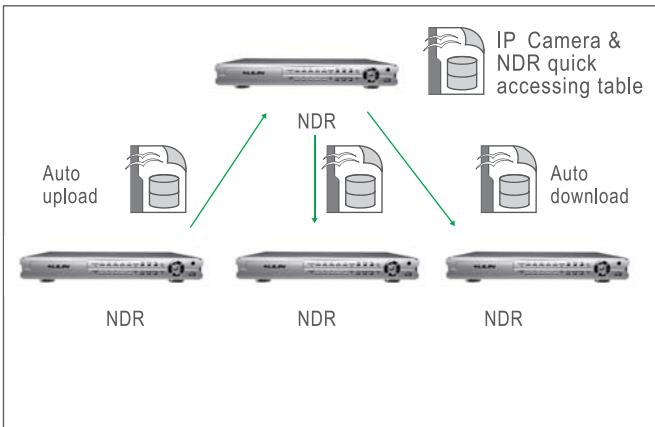
Saving wiring cost , Easy to setup



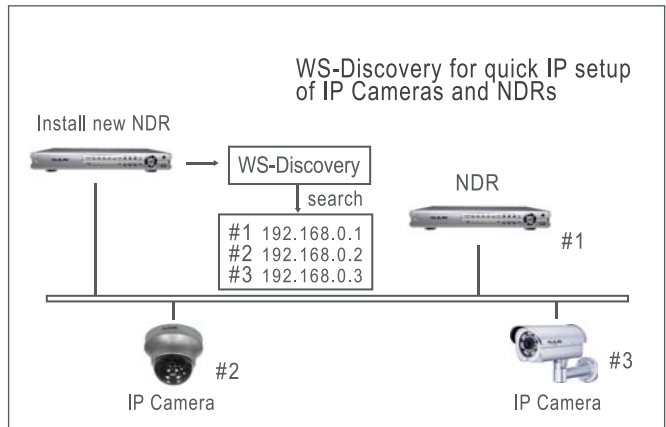
Expandable System



**Mast and slave NDRs database design
IP Camera and NDR data sheet can auto download or upload**



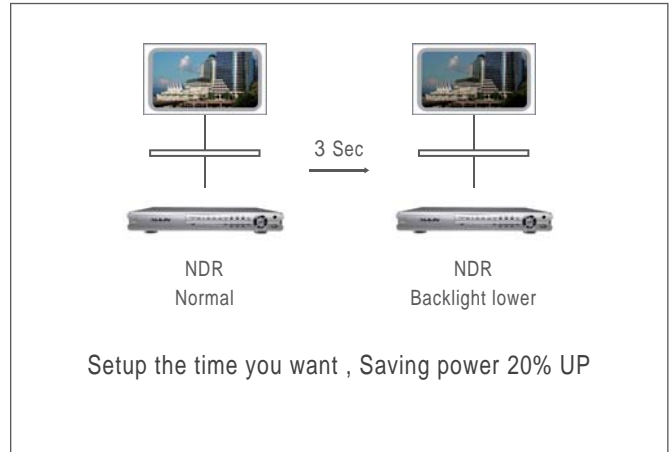
WS-Discovery function



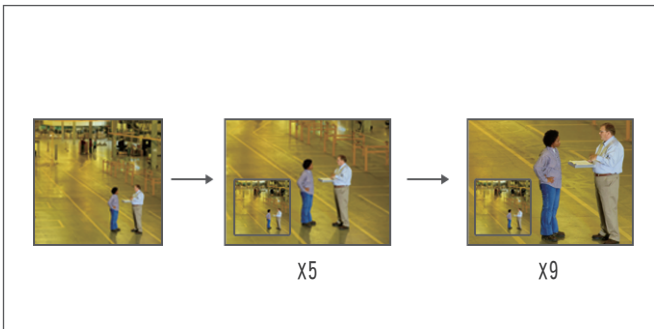
Signal people surveillance management



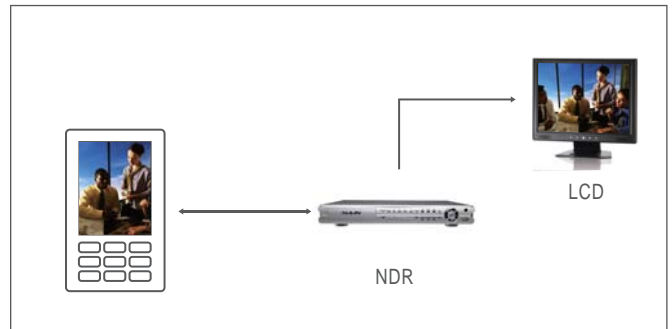
Power Saving design



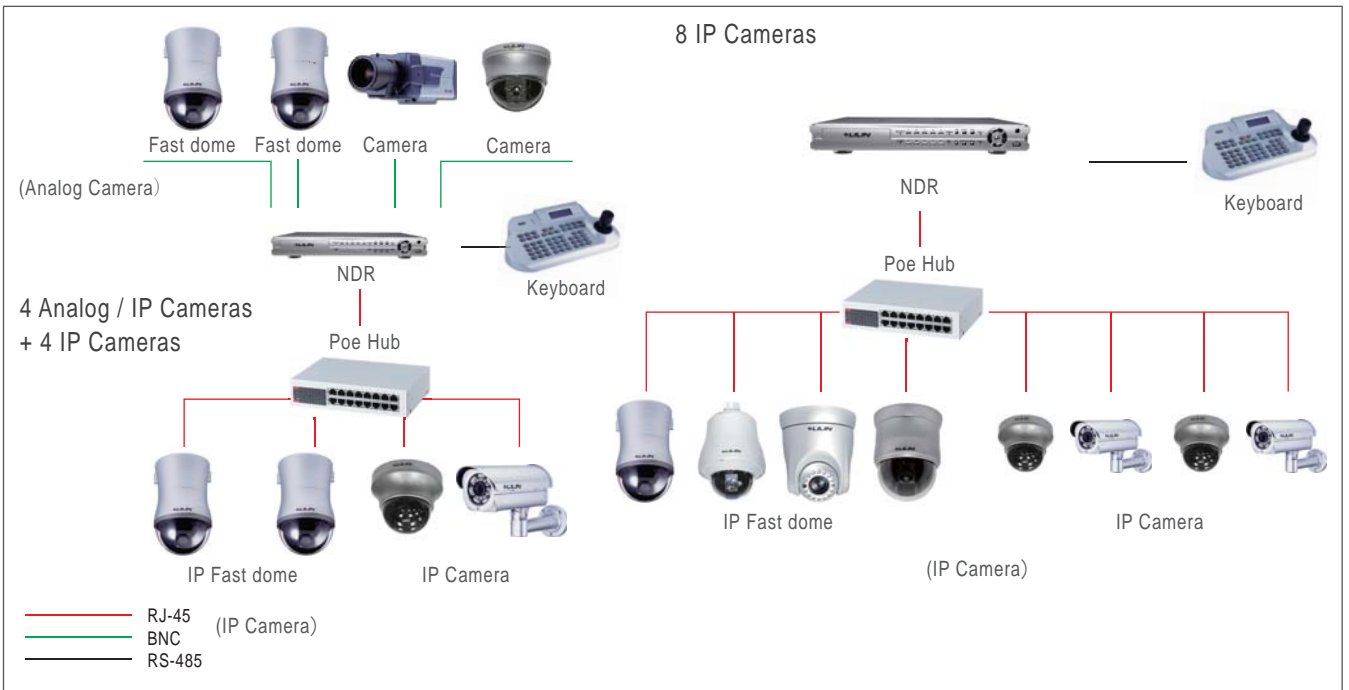
ROI is support at 5X and 9X zoom with PIP for view



3G mobile phone solution



Support 8 Cameras for setting , Saving installation and maintenance cost



Specifications

Specification	
Models	NDR104
Name	Real time Full D1 pure Hybrid NDR
Recording	SATA HDD: internal * 2 (A) / internal * 1 + external * 1
Recording mode	External alarm / motion detection / schedule / manual
Video source	Any combination of 4 analog and/or IP cameras 4 extra IP cameras for recording
Speed	PAL: Full D1 100 FPS/Sec at 720 * 576 NTSC: Full D1 120 FPS/Sec at 720 * 480
Resolution	Full D1: 720 * 576 (PAL) 720*480 (NTSC) / CIF: 320 * 288 (PAL) 320 * 240 (NTSC)
Schedule	7 day * 24 hrs time table, recording mode configurable
Backup	USB 2.0 flash disk / HTTP file download / Audio supported
DVD/RW	External USB DVD/RW
Playback	H.264 AVC video
Speed	FR: 2x, 4x, 6x / FF: 2x, 4x, 6x
Compression	H.264 AVC and JPEG
Video Input	Analog cameras and/or IP cameras
Camera Name	12 characters
Live video	PAL: 100 FPS/Sec NTSC: 120 FPS/Sec
Video Output	BNC * 2
VGA output	3D intellectual motion adoptive refinement with vivid image enhancement VGA engine
HDMI	Up to 1920 * 1080P
Multiplexer	Sequence / digital zoom / freeze / PIP
Digital zoom	ROI for 5X and 9X with PIP at live and playback mode
Split screen	4, PIP
Spot monitor	Live sequence or alarm switching
Matrix	Control NDR and IP Fast Dome via TCP/IP by multiple keyboards
Management	
Reports	Full alarm, configuration, and operation reports exporting over HTTP or USB
Authentication	User authentication with feature configurable
Diagnostic	NDR Internal temperature, fan failure detection, and HDD I/O speed
Alarm/event	Alarm input * 4 and alarm output * 2 (NO/NC)
Motion	Motion grid 44*36 each channel, 8 sensitivities
Event	External alarm, video loss, stop recording, power recovering, motion detection, schedule, logon, HDD format
Email	Alarm notification with JPEG attachments
Accessories	Remote controller addressable up to 255 NDRs
P/T/Z protocol	LILIN MLP2 and Pelco over HTTP/ONVIF/RS-485
Keyboards	PIH-931 keyboard for controlling NDR/IP cameras over network
IR receiver	Extra IR extension connector, up to 200 m
Mouse	USB / PS-2, drag-n-drop, right-mouse-click, mouse wheel.
Audio	G.711 audio, RCA * 1 output (0.7Vp-p, 300 Hz to 3KHz)
Remote control	Yes
Network	Direct Internet browser access / multiple users access
ONVIF	Support ONVIF compliant IP cameras
Protocols	ARP / TCP/IP / UDP / HTTP / SMTP / FTP / DDNS / PPPoE / DynDNS / ONVIF compliant / NTP
Web	Live / event log & time search playback / AVI / snapshot
DVR status	HTML DVR status
IPScan	WS-Discovery and IPScan supported, easy-to-setup for IP address
Software	
BackupManager	Multiple NDRs FTP file download and multi-channel playback
Mobile phone solution	Java J2ME phone and Windows Mobile phone supported
Others	
WDT	Hardware watchdog timer
DST	Daylight saving time
Multilanguage	English, Chinese, Spanish, Danish, Swiss, Norwegian, Arabic, Japanese, Germany, French, Polish, Portuguese
CPU/OS	32-bit RISC Processor, ARM926 SoC336 MHz, Linux 2.6 kernel
Power	DC 12V, 4.2A, 50W
Working Env.	Temp: 0°C~+50°C / Humidity: 0%~80%
Dimension	434mmx364.3 x52.8mm(rackmountable)
Weight	5.2 kg w/o HDD

Design and specifications are subject to change without notice.