

# LOREX<sup>®</sup>

## HIGH DEFINITION 1080p NETWORK VIDEO SURVEILLANCE RECORDER



### VIEW YOUR WORLD IN FULL 1080p HD

Amazing high definition 1080p (1920x1080) picture quality day or night. Convenient one cable installation between camera and recorder. Free FLIR Cloud™ smartphone and tablet apps keep you connected to what matters most.



FLIR Cloud™



8/16/32 Channels 1-6 TB<sub>HDD</sub> 1080P Resolution

NR800 Series NVRs

[www.lorextchnology.com](http://www.lorextchnology.com)

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## FEATURES:

- Full high definition 1080p recording
- Real-time recording at 30fps per channel
- 8/16 built-in PoE (Power over Ethernet) ports providing video and power on a single Ethernet cable
- Automatically detects compatible IP cameras in the network <sup>1</sup>
- 24/7 security-grade pre-installed hard drive <sup>2</sup>
- H.264 video compression <sup>2</sup>
- Expandable high capacity storage
- Mirror hard drive recording – secure your recordings by backing up footage to an internal hard drive at the same time as recording to the primary hard drive <sup>3</sup>
- Pentaplex operation – view, record, playback, back up & remotely control the system simultaneously
- Simultaneous playback and live view on the same screen <sup>4</sup>
- Selectable area digital zoom in live view and playback
- Dynamic click-and-drag camera channel assignment
- Flip and mirror camera view settings
- Convenient front panel button controls
- Accurate time stamps with NTP & daylight savings time
- Instant USB backup of live video from selected camera
- Dual video outputs (HDMI and VGA) to connect multiple monitors
- HDMI output (HDMI cable included) for simple connection to HD TVs
- Keep up to date with automatic firmware upgrades <sup>5</sup>
- 3-Step remote viewing setup with FLIR Cloud™ <sup>6</sup>
- PC and Mac compatible <sup>7</sup>
- Free iOS and Android compatible apps with live viewing, playback, video recording, and snap shot <sup>7</sup>
- Dedicated iPad app with multi-channel live viewing and playback <sup>7</sup>
- Push notifications of motion events
- Instant email alerts with snap shot attachment
- Dual streaming to conserve bandwidth
- Continuous, scheduled, and motion recording



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## Specifications

SYSTEM	
Operating System	Linux (embedded)
Pentaplex	Simultaneous View, Record, Playback, Backup & Remote Monitoring
Number of Channels	8/16/32 ch
INPUTS/OUTPUTS	
Video IN	8ch: 8 PoE Video Input 16/32ch: 16 PoE Video Input
Video OUT	8ch: No 16/32ch: Yes, BNC
VGA OUT	Yes
HDMI	Yes
Audio IN	8ch: 1 Line IN (RCA) for service only 16/32ch: 1 Line IN (RCA) for 2-way audio
Audio OUT	8ch: 1 Line OUT (RCA) for service only 16/32ch: 1 Line OUT (RCA) for 2-way audio
USB Port	1 at the back, 1 at the front
Alarm IN	8ch: 8 Alarm IN 16/32ch: 16 Alarm IN
Alarm OUT	8ch: 3 Alarm OUT 16/32ch: 4 Alarm OUT
Video Output Resolution	1920x1080, 1280x1024, 1280x720, 1024x768
PTZ Control	8ch: Lorex IP PTZ cameras only 16/32ch: RS485, supports Pelco-D and Pelco-P
DISPLAY	
Display Split	8ch: 1/4/8/9 16/32ch: 1/4/8/9/16
Live Display Speed	8ch: 240fps NTSC / 200fps PAL 16/32ch: 480fps NTSC / 400fps PAL
OSD	Camera Title, Time, Camera Lock, Motion Detection, Recording Status
System Navigation	USB Mouse, IR Remote Control, Front Panel Buttons
Motion Area Setting	Adjustable Grid (22x18)
Sensitivity Levels	100
Firmware Upgrade	Automatic over the Internet & via USB device and network
User Authority	By user group
Time Synchronization	Automatic time sync by NTP server
RECORDING	
Video Compression	H.264
Audio Compression	G.711
Recording Resolution	720p (1280x720), 1080p (1920x1080), 3MP (2028x1536), 4MP (2272x1704)
Recording Rate NTSC	8ch: 240fps@720p/1080p/3MP/4MP 16ch: 480fps@720p/1080p/3MP/4MP 32ch: 960fps@720p/1080p/3MP/4MP
Recording Rate PAL	8ch: 200fps@720p/1080p/3MP/4MP 16ch: 400fps@720p/1080p/3MP/4MP 32ch: 800fps@720p/1080p/3MP/4MP
Recording Resolution Setting	Per camera for different resolutions
Recording Quality Control	6 Levels
Recording Schedule	By hour, by day, by recording mode, by motion, by channel
Pre Recording	Max. 30 seconds
Post Recording	Max. 5 minutes
Reliability	Watch-Dog, auto-recovery after power failure
Covert Video	Yes
PLAYBACK	
Playback Channel	8ch: 1/4/9 16/32ch: 1/4
Playback Speed Variable	Variable Max 16x
Playback Players	Backup Player
Search	By time & event
Log Search	Up to 1,000 lines for motion detected, configuration changes, connects/disconnects and video loss
Audio Play	Yes (audio camera required)
STORAGE & ARCHIVE	
Storage	8ch: Up to 2 HDDs (SATA) Internal, No External Storage 16/32ch: Up to 4 HDDs (SATA) Internal, Up to 4 HDD External using 1x eSATA Port
Maximum Capacity	8ch: Up to 2x6TB 16/32 ch: Up to 4 x 6TB Up to 6TB External (eSATA)
Backup Media	USB Flash Drive & HDD
Backup File Format	DAV or ASF File
CONNECTIVITY	
Cloud Connection	Flir Cloud™
Supported Operating Systems	Windows™ Mac OS X
Remote Software	Client Software (PC/Mac)
Email notification	Text with snapshot
Instant Smart Phone	iPad®, iPhone®, Android™ & Tablet Support †
DDNS	Free FLIR DDNS
System Configuration	Full setup configuration over network
Ports	Programmable by User
Network Protocol	HTTP, IPv4/IPv6, TCP/IP, UPNP, RTSP, UDP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter
Network Interface	10/100/1000Mbps, RJ45
Network Bit Rate	8ch: 256Mbs total, 48~8192Kbps per camera 16/32ch: 200Mbs total 48~8192Kbps per camera
GENERAL	
Power Consumption	8ch: Approx. 20 Watts (no HDD included) 16/32ch: Approx. 40 Watts (no HDD included)
Supply Voltage	100VAC-240VAC, 50/60Hz
Total PoE Power Output	8ch: 120W (Max 25W per camera) 16/32ch: 150W (Max 25W per camera)
Unit Dimensions (W x D x H)	8ch: 375 x 285 x 50mm / 14.7 x 11.2 x 2.0" 16/32ch: 440 x 410 x 70mm / 17.3 x 16.1 x 2.8"
Unit Weight	8ch: 2.3kg / 5.1lbs 16/32ch: 6.0kg / 13.2lbs
Operating Temperature	14° ~ 131°F / -10° ~ 55°C
Humidity	10 ~ 90% RH

### RECORDING RESOLUTION (PIXELS) & SPEED (FPS - FRAMES PER SECOND) NTSC/PAL

		720p	1080p	3MP	4MP
8ch	Total	240/200	240/200	240/200	240/200
	Per channel	30/25	30/25	30/25	30/25
16ch	Total	480/400	480/400	480/400	480/400
	Per channel	30/25	30/25	30/25	30/25
32ch	Total	960/800	960/800	960/800	960/800
	Per channel	30/25	30/25	30/25	30/25

### NVR Inputs & Outputs

8 Channel NVR



16/32 Channel NVR



### NVR Dimensions:

8 Channel NVR



16/32 Channel NVR



### Product Information:

MODEL	CONFIGURATION	PACKAGE	W x D x H Inches & mm	WEIGHT	CUBE	UPC Code
NR8081	8ch NVR with 1TB HDD	Brown Box	7.0 x 16.5 x 17.7" 178 x 419 x 450mm	10.2lbs / 4.6kg	1.2cbf / 0.03cbm	6-95529-00409-9
NR8163	16ch NVR with 3TB HDD	Brown Box	21.0 x 20.3 x 8.0" 533 x 516 x 203mm	17.6lbs / 8.0kg	2.0cbf / 0.06cbm	6-95529-00410-5
NR8326	32ch NVR with 6TB HDD	Brown Box	21.0 x 20.3 x 8.0" 533 x 516 x 203mm	18.5lbs / 8.4kg	2.0cbf / 0.06cbm	6-95529-00470-9
Includes:	NVR with Pre-Installed HDD, HDMI Cable, Remote Control, Power adapter, Mouse, Ethernet Cable, Quick Start Guides.					

### Disclaimers:

- Compatible with Lorex HD PoE IP cameras only. For a list of compatible cameras, please visit [www.lorextechnology.com/support](http://www.lorextechnology.com/support)
- Recording time may vary based on recording resolution & quality, lighting conditions and movement in the scene.
- Mirror recording requires a second hard drive (not included) to be installed in the NVR. Mirrored hard drive must be as large or larger than the primary hard drive to backup all recordings. Backup begins from when the mirrored hard drive is installed and configured.
- Instant playback feature available on one camera at a time during live view (when in quad or multiple live camera viewing mode).
- Both firmware and software must be updated to latest version to ensure remote connectivity. Firmware updates are pushed to the NVR automatically over the Internet (available at [www.lorextechnology.com](http://www.lorextechnology.com)). Always update to the latest software after upgrading the NVR firmware.
- Requires a high speed internet connection and a router (not included). A minimum upload speed of 2Mbps is required for the best video performance. Up to 2 devices may connect to the system at the same time.
- For the latest list of supported apps and devices, please visit [www.lorextechnology.com/support](http://www.lorextechnology.com/support)

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