

LOREX[®]

4K ULTRA HD NETWORK VIDEO RECORDER



WELCOME THE FUTURE OF HIGH DEFINITION VIDEO RECORDING

View your world in more detail than ever with real-time 4K HD recording for 4× the detail of 1080p. 4K video output lets you view multiple HD channels in full resolution on a 4K TV. The NVR's Power over Ethernet ports make setup quick and easy, with one cable installation per camera that provides both power and HD video.



Lorex Cloud™



8/16/32 Channels 2-8TB HDD 4K Support 8/16 PoE Port.

LNR600X Series NVRs

www.lorex.com

FEATURES:

- Real-time recording up to 8MP on all channels – 4× the detail of 1080p @ up to 25/30fps¹
- Support for select Lorex 4K Ultra HD Active Deterrence Network Security cameras⁴
- 8/16 built in PoE (Power over Ethernet) ports providing video and power over a single Ethernet cable
- Lorex Cloud™ app for live viewing, playback, video recording & snapshots (iPhone® / iPad® / Android™)²
- PC and Mac compatible – Lorex Cloud™ video management software gives you complete control over your security system from anywhere²
- 24/7 security-grade pre-installed hard drive³
- Expandable high capacity storage up to 16TB (max 2×8TB HDD)
- Automatically detects compatible IP cameras in the network⁴
- 4K video output – view multiple HD channels in full resolution on a 4K TV/Monitor (default resolution settings must be manually changed to 4K)
- H.265 / H.264 video compression offers reduced file size and network strain for remote viewing³
- 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 drive⁵
- Pentaplex Operation – view, record, playback, back up & remotely control the system simultaneously
- Click-and-drag digital zoom in live view and playback
- Convenient front panel button controls
- Accurate time stamps with NTP & daylight savings time
- Instant backup of live video to a USB flash drive
- Automatic firmware upgrade over the Internet ensures your system stays up-to-date⁶
- Push notifications of motion events
- Instant email alerts with snapshot attachment
- Multi-streaming to conserve bandwidth
- Continuous, scheduled, and motion recording
- Dual video outputs (HDMI and VGA) to connect multiple monitors
- HDMI cable included for simple connection to HD & 4K TVs / Monitors



Lorex Cloud™

Easy to Connect



SYSTEM

Operating System	Linux (embedded)
Pentaplex	Simultaneous View, Record, Playback, Backup & Remote Monitoring
Number of Channels	8/16/32 Channels

Inputs/Outputs

Video IN	8ch: 8 PoE Video Input 16/32ch: 16 PoE Video Input
Video OUT	No
VGA OUT	Yes
HDMI	Yes
Audio IN	1 Line IN (RCA) for service only
Audio OUT	1 Line OUT (RCA) for service only
USB Port	1 at the back, 1 at the front
Alarm IN	4 Alarm IN
Alarm OUT	2 Alarm OUT
Video Output Resolution	3840x2160, 1920x1080, 1280x1024, 1280x720, 1024x768
PTZ control	Lorex IP PTZ cameras only

Display

	8ch: 1/4/8 16ch: 1/4/8/9/16 32ch: 1/4/8/9/16/25/36
Live Display Speed	8ch: 240fps NTSC / 200fps PAL 16ch: 480fps NTSC / 400fps PAL 32ch: 960fps NTSC / 800fps PAL
OSD	ON/OFF
System Navigation	USB Mouse, IR Remote Control, Front Panel Buttons
Motion Area Setting	Fixed 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 / H.265
Audio Compression	G.711
Resolution	720p (1280x720), 1080p (1920x1080) ~ 4K-8MP (3840x2160)
Record Rate	8ch: 240fps@720p/1080p/3MP/4MP/8MP 16ch: 480fps@720p/1080p/3MP/4MP/8MP 32ch: 960fps@720p/1080p/3MP/4MP/8MP
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 alarm, by channel
Pre Recording	Max. 4 Secs
Post Recording	Max. 5 Minutes
Reliability	Watch-Dog, auto-recovery after power failure
Covert Video	Yes

PLAYBACK

Playback Channel	1/4/8
Playback Speed	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	Up to 2 HDDs (SATA)
Maximum Capacity	Up to 2x8TB
Backup Media	USB Flash Drive & HDD
Backup File Format	DAV or ASF File

CONNECTIVITY

Cloud Connection	Lorex Cloud™
Supported Operating Systems	Windows™ / Mac OS X
Remote Software	Client Software (PC & Mac)
Email Notification	Text with snapshot
Instant Smart Phone & Tablet	Android™, iPad®, iPhone®
DDNS	Free Lorex 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	10/100/1000Base-TX, RJ-45
Network Bit Rate	320Mbps total, 48~8192kbps per camera

GENERAL

Power Consumption	Approx. 15W (no HDD included)
Supply Voltage	100VAC-240VAC, 50/60Hz
Total PoE Power Output	130W (Max 25W per Camera)
Unit Dimensions (W x D x H)	14.7 x 12.9 x 2.1" / 375 x 327 x 53mm
Unit Weight	8ch: 5.1lbs / 2.6kg 16/32ch: 13.2lbs / 2.7kg
Operating Temperature	14° ~ 131°F / -10° ~ 55°C
Humidity	10 ~ 90% RH

RECORDING RESOLUTION (PIXELS) & MAXIMUM SPEED (FPS - FRAMES PER SECOND)

		720p	1080p	3MP	SUPER HD 4MP	4K
		1280x720	1920x1080	2048x1536	2688x1520	3840x2160
8ch	Total	240	240	240	240	240
	Per channel	30	30	30	30	30
16ch	Total	480	480	480	480	480
	Per channel	30	30	30	30	30
32ch	Total	960	960	960	960	960
	Per channel	30	30	30	30	30

NVR Inputs & Outputs

8 Channel



16/32 Channel



Dimensions:



Product Information:

MODEL	CONFIGURATION	PACKAGE	W x D x H Inches & millimeters	WEIGHT	CUBE	UPC Code
LNR616X4T	16-Channel 4K HD NVR with 4TB HDD	Brown Box	18.5 x 6.9 x 16.7" / 470 x 175 x 425mm	11.9lbs / 5.4kg	1.3cbf / 0.04cbm	6-95529-01861-4
Includes: 4K HD NVR with pre-installed HDD, 1x HDMI Cable, 1x Ethernet Cable, 1x Power Adapter, 1x Mouse, 1x Remote Control, Quick Start Guides						

Disclaimers:

1. Default resolution settings must be manually changed to 4K (8MP) in order to record or view 4K video. 8MP IP cameras are required to take advantage of 4K recording.
2. Requires a high speed internet connection and a router (not included). A minimum upload speed of 3.5Mbps is required for the best video performance. Up to 3 devices may connect to the system at the same time. For the latest list of supported apps and devices, please visit www.lorex.com/support
3. Recording time may vary based on recording resolution & quality, lighting conditions and movement in the scene.
4. Compatible with select Lorex PoE HD IP cameras. For a list of compatible cameras, please visit www.lorex.com/compatibility
5. 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.
6. 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.lorex.com). Always update to the latest software after upgrading the NVR firmware.