

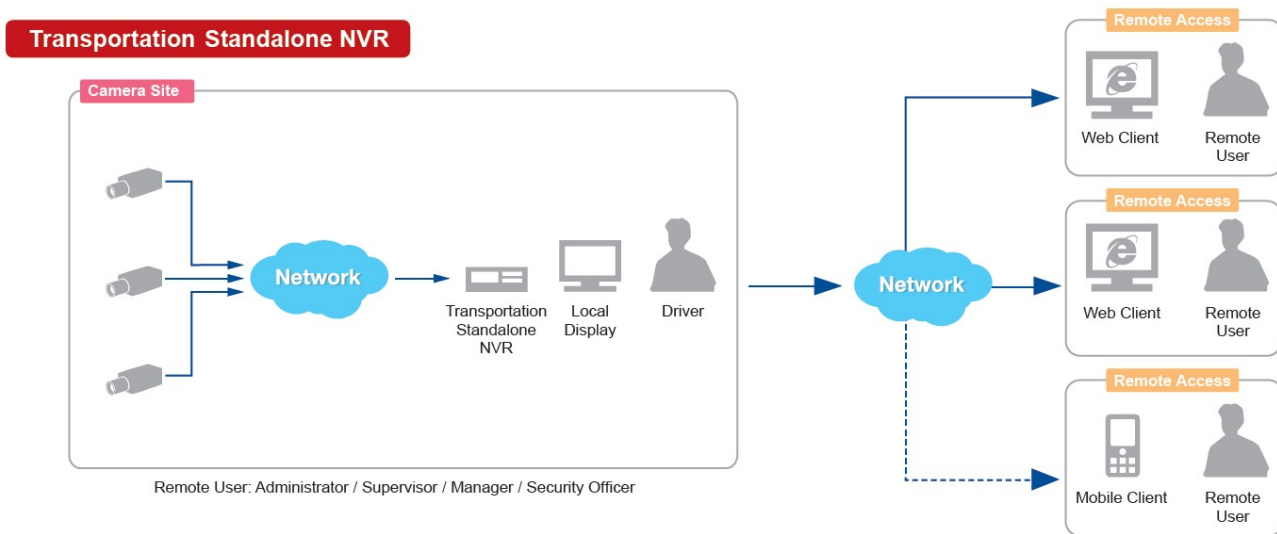
MNR-310

32-Channel Transportation Standalone NVR



- Maximum Number of Video Devices: 32
- Free License: 16 (16 channels for ACTi and 1 channel for third-party video device)
- Video export formats: RAW, AVI, EXE
- Event trigger, response and notification
- Workstation, Web Client, Mobile Client
- Location-based management with e-Map
- Non-ACTi camera support via licensed Camera Device Pack

► Solution Diagram



► Specifications

Device

Product Type	Standalone NVR
Maximum Resolution	Support all ACTi cameras in all resolutions

Maximum Number of Cameras	32
Maximum Number of Video Devices	32
Maximum Number of POS devices	32 (requires additional license)
Maximum Number of Clients	Local: 1, Remote: 3

Hardware

CPU	Intel Atom D2550
RAM	2GB

License

License required	Yes
Free License	16 (16 channels for ACTi and 1 channel for third-party video device)

Live View

Display Layout Mode	Local:1, 3, 4, 5, 6, 8, 9, 10, 12, 16, Remote:1, 3, 4, 5, 6, 8, 9, 10, 12, 16, 18, 24, 25, 35, 36, 48, 49, 64, Custom
Fisheye Dewarping	Yes
Local Live View performance	Please check "Standalone NVR Performance Validator" (http://www.acti.com/SANVRPerformance)
Digital Zoom	Yes
Event Status	Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full
Instant Playback	Instant Playback in live view window (Remote client)
Embedded websites in Live View	Display and connect to pre-configured embedded website

Map

e-Map	Yes
Layout	Area maps with camera icons, small live view windows, hyperlinked
Setup	e-Map image upload, Google maps settings and preset management, camera positioning, vision angle and pointed direction of camera, view positioning, source positioning, extended devices for Point-of-sale (POS), Access Control, Network I/O, Car Park
PTZ Mode	Mouse PTZ mode to control e-Map video streams

PTZ

PTZ Control	PTZ Control, Speed Control, 32 preset points
Joystick	USB based joystick supported

Video

Compression	H.265, H.264, MPEG-4, MJPEG
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Audio

Audio Type	2-way
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Network

Network Protocol & Service	IPv4/v6, TCP, UDP, DHCP Client, HTTP, DNS, NTP, RTP, RTSP, SMTP, FTP, ICMP, ARP, UPnP, LDAP (client), iSCSI
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Ethernet Port | Total ports: 2 port(s) Non-PoE: 2 port(s), Ethernet (1000 Base-T), RJ-45 connector

Recording

Scheduled Recording	Yes
Event Recording	Yes
Manual Recording	Yes
Event Speed-up Recording	Yes
Dual Stream Management	Yes
Maximum Recording Throughput	192 Mbps

Search & Playback

Playback Control	Continuous forward and backward playback with speeds 1x/2x/4x/8x/16x or frame-by-frame, pause, stop
Synchronized Playback	4 channels (Local), 32 channels (Remote)
Recording Search	Search video recordings by time, events, channels, bookmarks, notifications and listed as clickable time-based thumbnails for full-size view and snapshot download
Smart Search	Smart search of recorded video by Motion Detection and Tamper
Video Export	RAW, AVI, EXE

Event

Event Trigger	[NVR]: Disk full, Disk not found, Disk is available, Schedule service start and stop, Video Push start and stop, CPU limit exceeded, [Video Device]: Video motion detection, Passive IR sensor, External device through digital input, Sound detection, Intelligent event detection, Video Push start and stop, Video loss, Video Recovery, Network loss and recovery, [Extended Device]: Point-of-sale (POS) status, Network I/O status, Access Control status, Car park status
Event Response	Pop-up window with live video and event confirmation activation, Switch to hotspot window, Switch to customize view, Command a PTZ device to go to a preset point, Play alert sound, Activate external device through digital output, Execute system command to activate other programs, Upload video or snapshot to FTP server, E-mail notification with snapshots, Push notification

Redundancy Server

Redundancy Service	Yes, N+1 (With limited functions when NVR 3 server acts as Redundancy server)
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System

Permission control	Unlimited number of users, Active Directory, Customizable permissions for user groups, Account lockout, Automatic logout after idle, Playback password protected, Password validity period
Client PC Operating System	Windows 7 SP1, Windows 8.1, Windows 10, Windows Server 2008 R2 SP1, Windows Server 2012 R2, Windows Server 2016
Server Operating System	Windows 7 Embedded
Mobile Client Program	Mobile device application (ACTi Mobile Client) supports Live View, PTZ Control, Video Push, Event/time based search and playback, iPad, Android device
USB	4-Port USB 2.0
Language	Multi-Language

Integration

Unified Solution	Fully compatible with ACTi cameras, encoders, central management system, TV wall and intelligent video surveillance software
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GPS Position	Manual setting
ONVIF Compliant	Yes, Profile S
Web Browser	IE 11 (Please verify that your computer meets the minimum system requirements for Internet Explorer from Microsoft website.)
Third-party Integration	Point of Sale (POS), Access Control, Network I/O, Parking Management Station (PMS), (Various optional integrations requiring additional license)

Storage

System Drive	mSATA SSD, 32GB
Storage Bay	SATA, Max. 2 Disk(s)
HDD Size	2.5"
Maximum Recording Capacity	1TB x2
RAID Level	Software RAID 0, 1
Supported Storage	Video Recording: SATA disk, iSCSI Export: iSCSI, USB

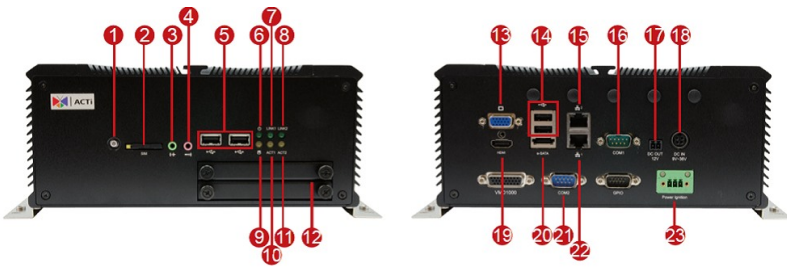
Interface

Serial Port	1 x RS-232
Wireless	Wi-Fi (IEEE 802.11b/g/n), 4G, GPS (require optional accessories)
External Storage Interface	eSATA, iSCSI, USB
Local Access	USB keyboard & mouse, USB Joystick
Local Display Interface	HDMI x 1,

General

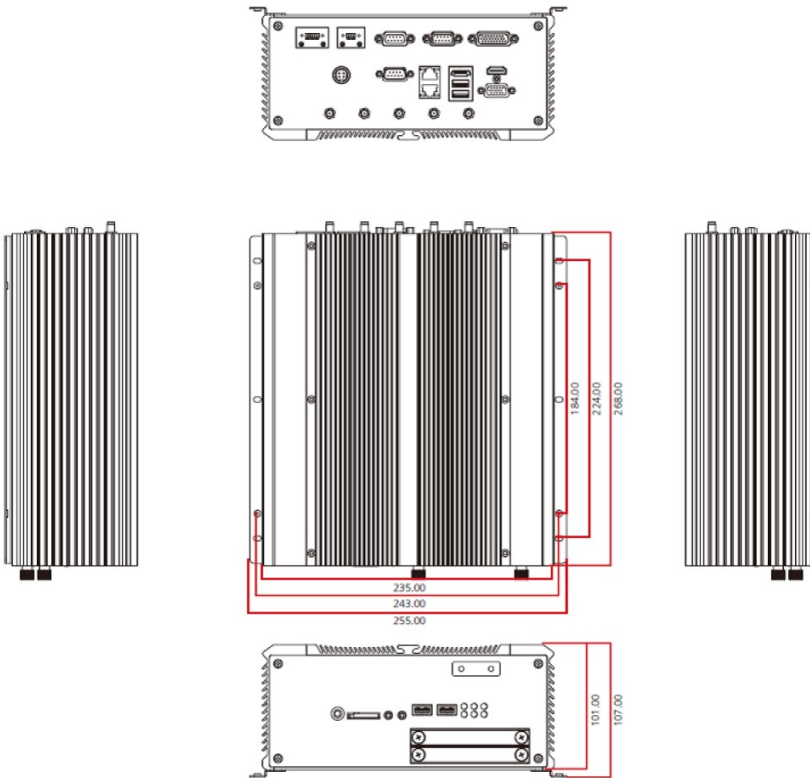
Power Source	AC 100-240V, DC 12V, DC 9-36V
Weight	5250g (11.57lb)
Dimensions	(W x H x D): 235mm x 101mm x 268mm (9.25" x 3.97" x 10.55")
Operating Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Operating Humidity	10% - 90% RH
Remote Access	Workstation, Web Client, Mobile Client
Approvals	CE, FCC, E-Mark, UL (for built-in power adapter)
Warranty	2 Year(s)

► Photo Indication



- 1 Power Button
- 2 SIM Card Holder
- 3 Audio Line-out
- 4 Audio Mic-in
- 5 USB 2.0 Ports
- 6 Power Status LED
- 7 Link 1 LED
- 8 Link 2 LED
- 9 HDD Activity LED
- 10 ACT 1 LED
- 11 ACT 2 LED
- 12 HDD Trays
- 13 VGA Connector

► Dimension Diagram



Unit: mm [inch]


▶ Related Products

Power Supply Accessories - Power Adapter


PPBX-0006  Power Adapter AC 100~240V for MNR-310

PPBX-0007  Power Ignition Control Module for MNR-310


Network & Storage Peripherals - Hard Disk

PHDD-1200  WD WD10JUCT 1TB 2.5" Hard Disk Drive for Data Storage (for MNR-310, MNR-320P, MNR-330P)


Network & Storage Peripherals - Wireless Module

PWLM-0100  SIERRA MC7304 4G LTE Wireless Module for MNR-310 (Europe / Australia / New Zealand)


PWLM-0101  SIERRA MC7350 4G LTE Wireless Module for MNR-310 (US)

PWLM-0102  SIERRA MC7355 4G LTE Wireless Module for MNR-310 (North America)


PWLM-0103  SIERRA MC7330 4G LTE Wireless Module for MNR-310 (Japan)

PWLM-0200  QCOM Q802XKN5F Wi-Fi Module for MNR-310

Network & Storage Peripherals - Network IO Module

PIOB-0100  Advantech ADAM-6060 6 Digital Input and 6 Digital Output Network I/O Module

Controllers - Joystick

PJSK-0100  Apem 100-550-BLK-RF Joystick for PTZ Control (for all ENR, INR, and MNR Series)