MNR-310

32-Channel 2-Bay **Transportation Standalone NVR**



- 2-bay with software RAID (0,1)
- Manage up to 32 cameras or video encoders
- · Recording up to 32 channels
- Live view local up to 4 channels, remote up to 32 channels
- · Synchronized playback local up to 4 channels, remote up to 32 channels
- · Export video with RAW and AVI formats
- · Event trigger, response and notification
- · Mobile Client, Web Client, Workstation
- · Location-based management with e-Map
- 16-channel free license included
- Non-ACTi camera support via licensed Camera Device Pack

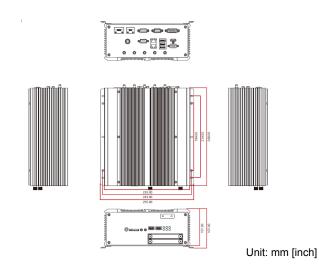
PHOTO INDICATION



- Power Button
- SIM Card Holder
- Audio Line-out
- 4 Audio Mic-in
- USB 2.0 Ports
- Power Status LED
- Link 1 LED
- 8 Link 2 LED
- 9 HDD Activity LED
- 10 ACT 1 LED
- ACT 2 LED
- 1 HDD Trays
- 13 VGA Connector
- USB 2.0 Ports
- LAN 1 Port Ð
- COM 1 Port

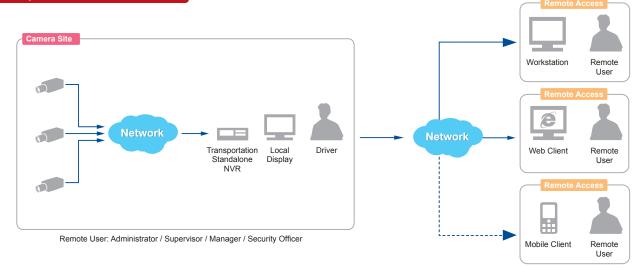
- 12V DC Output 18 9V~36V DC Input
- 19 HDMI Port
- 20 eSATA Port
- 21 COM 2 Port
- 2 LAN 2 Port
- 2 Power Ignition

DIMENSION DIAGRAM



SOLUTION ARCHITECTURE

Transportation Standalone NVR





MNR-310

PRODUCT SPECIFICATION

	MNR-310
General	
Full Name	ACTi Transportation Standalone Network Video Recorder MNR-310
Maximum Number of Clients	1 local, 3 remote
Maximum Number of Cameras	32
ree License	16 Channels
Compression	H.264, MPEG-4, MJPEG
Maximun local display resolution	1920 x1200
Live View	1020 X1200
	Local: 1, 4,
Display Layout Mode	Remote: 1, 4, 5, 6, 8, 9, 10, 12, 16, 18, 24, 25, 32
iew Manager	An interface to define display layouts and the pre-set cameras within layout in the public or private view
iew Patrol	Automatic switch between different views or devices
iew Panel	Contains the list of pre-defined views for quick launch
Digital Zoom	Zoom in/out digitally by mouse scroll wheel or by zoom control buttons
Camera Tree	Drag and drop video source from camera tree into display layout; display camera status on the tree
lanual Recording / Snapshot	Instant recording upon mouse click / Instant snapshot upon mouse click or hot key
vent Panel	Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is ful
wo-way Audio	Audio sound from and to all the audio supported devices; audio broadcast to multiple devices at the same time
oual Stream Management	Live view of stream 1 or stream 2 of dual stream devices
stant Playback	Instant playback in live view window
e-Map	
ayout	Area maps with camera icons, small live view windows; hyperlinked
lap Switch and Tour	Manual switch and auto tour modes selectable
etup	E-Map image upload; camera positioning; vision angle and pointed direction of camera; view positioning; source positioning
TZ Mode	Mouse PTZ mode to control e-Map video streams
	Microse 1 12 Hidde to Collition e-map video streams
PTZ	
control	Pan, tilt and zoom controls; speed control; both buttons and mouse controls
reset Points and Tours	Create preset points; create auto tours between preset points
lumber of Preset Points	32
oystick	USB based joystick supported
efault Protocol	Auto-detect camera's PTZ protocol. Available protocols: ACTi, Pelco-P, Pelco-D, Dynacolor, Visca
Recording	
Recording Throughput	Maximum total bitrate 192 Mbps
cheduled Recording	Record video with user defined schedule
vent Recording	Record video when the alarm event is triggered, including the pre-event buffered video clip
speed Up	
· · ·	Different recording frame rate settings for non-event and triggered event
Manual Recording	Instant recording upon mouse click
Oual Stream Management	Recording of stream 1 or stream 2 of dual stream devices
Recording Frame Rate	Max 960 fps total; Max 30 fps per camera
Storage	
nterface	Serial ATA
Bundled System Drive	32GB SATA DOM
IDD Bay	2
laximum Add-on HDD Capacity	1T x 2 = 2TB
AID Level	Software RAID 0. 1
	eSATA, iSCSi, USB mass storage (USB 2.0)
xternal Storage Support	esara, isosi, use mass siolage (use 2.0)
Search & Playback	
ime Based Video Search	Search video recordings by time, channel or event, and the results are listed as clickable thumbnails for full-size view and snapshot download
vent Based Video Search	Search alarm triggered video recordings
layback Control	Continuous forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop
ynchronized Playback	Up to 4 channels for local display, up to 32 channels for remote client
lanual Snapshot	Instant snapshot from playback upon mouse click
igital Zoom	Zoom in/out digitally by PiP (Picture-in-Picture)
ideo Cropping	Crop a short video clip from long recording file and save it as an independent file
ideo Export	Export video clips in AVI or RAW format; text overlay supported
Event Management	Export 1900 dipo il 1741 di 1444 format, text overlay supported
	Video motion detection; Passive IR sensor; External device through digital input;
Event Trigger	Video loss and recovery; Network loss and recovery; Server loss and recovery; Disk full; Disk not found
vent Response	Record video; Pop-up window with live video; Switch to hotspot window; Play beep sound; Activate external device through digital output Upload snapshot to FTP server; Execute system command to activate other programs; E-mail notification with snapshots;
Janual Event	Command a PTZ device to go to a preset point Manually activate external devices through digital output via live view maniter.
lanual Event	Manually activate external devices through digital output via live view monitor
cheduler	Define the schedule of event manager
Video Analytics	Our describe for a solidate of the Control of
mart Search	Smart search for recorded videos by Motion Detection and Tamper
System	
	Unlimited number of users, Active Directory, Customizable permissions for user groups
ermission Control	
ermission Control Operating System	Win 7 Std. Embedded

www.acti.com

^{*} All specifications are subject to change without notice.
* All brand names and registered trademarks are the property of their respective owners.

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Transportation Standalone NVR

 Remote Access 	
PC Client Program	

i o olient i rogiani	Oser interface program (workstation) with five view, 1-12, playback, e-map, event management, setup
PC Web Browser	Microsoft Internet Explorer 8.0, 9.0, 10.0 and 11.0 with live view, PTZ, playback, event management, setup
Mobile Client Program	Mobile device application (Active Mobile Client) supports live view, PTZ control, event or time based search and playback Supported devices: iPhone, iPad, iTouch and Android device
Remote Client PC System Requirement	1-16 channels: Intel Core 2 Quad 2.4GHz, 4GB RAM 17-32 channels: Intel Core i7-920 2.67 GHz, 4GB RAM
 Hardware 	
CPU	Intel Processor
RAM	2GB
Dimensions (W x H x D)	235 mm x 101 mm x 268 mm (9.25" x 3.97" x 10.55")
Weight	5.25 KG (without HDD)
Operating Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Operating Humidity	10% ~ 90% RH (non-condensing)
Power Source	110V~220V AC / 9V~36V DC
Approvals	CE (EN 55022 Class B, EN 55024), FCC (Part15 Subpart B Class B), e-Mark (e13), MIL-STD-810F, UL (for optional power adapter)
USB 2.0	4 (2 Front Ports, 2 Rear Ports)
RJ-45 Connector	2, Gigabit Ethernet ports (1000 Base-T), RJ-45 connector
Audio Port	Mic-in x 1; Line-out x 1
SIM Card Holder	1
eSATA Port	2
Display Port	VGA x 1; HDMI x 1
COM 1	RS232/422/485 with isolated 3kV x 1
COM 2	RS232 x 1
Power Ignition Module	1
1. 4	

User interface program (Workstation) with live view, PTZ, playback, e-Map, event management, setup

Integration

Unified Solution	Fully compatible with ACTi cameras, encoders, central management system, TV wall and intelligent video surveillance software
Open Platform Solution	Support ONVIF compliant devices

Optional Module

Optional Module	
GPS Module	Support, COM port interface
3G + 4G Module	Support, Mini-PCIe module
Wifi Module	Support, Mini-PCIe module
Power Ignition Module	Support
Adapter (AC110~240V)	Support
Anti-Vibration Kit	Support

