

MULTIEYE® NET NVR Network Video Recorder



The MULTIEYE® Network Video Recorder (NVR) operates exclusively with network-based video sources such as IP cameras, video encoders/servers, etc. As a result, it overcomes the physical limitations of analog video transmission technology. The advantages are obvious and are reflected by factors such as very high scalability, flexibility, functionality and economic viability.

A MULTIEYE®-NVR recorder can record up to 32 IP video sources and thus places complete video and alarm management at your disposal. Multiple users can simultaneously access it by means of PCs in your network. In this way, video networks can be implemented which are not only economic to set-up, but can also support your operational business effectively.

Die MULTIEYE®-NVR are also available as „BGV certified“ versions.

Key features:

- Scalable network video recorders with up to 32 IP video inputs
- Modular software and hardware architecture
- Quadplex operation
- Support of JPEG, MJPEG, MPEG-4 and H.264 IP-Video Codecs
- Image processing rates up to 800 MPixel /s through DirectStream Technology
- Support of all common network cameras and videosevers from over 75 manufacturers (more than 400 camera models)
- Future security: supports IP-cameras with up to 20MPixel
- Zooming during live operation and playback (bandwidth optimized)
- Motion Detection for all IP video channels
- Storage capacity up to 3TB
- Multifaceted remote polling and configuration
- PDA ready (without additional software)
- Fast evaluation of events through MotionSearch and MotionTrack
- Interfaces to cash-points, IO servers, video sensors, control stations, access controls
- Highest operational security through RAID and dual power supply packs
- 2x1GBit network boards
- Supports the ImmerVision IMVI-I/3 panomorph lens with automatic live and playback equalization and virtual PTZ control

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Network Video Recorder

SPECIFICATION:

General:

- Operating system MS Windows XP
- Processor Core 2 Quad
- Random access memory 2GB
- Storage capacity in TB max. 3
- Devices: DVD-RW
- Voltage supply: 400 Watt (redundant)(110-230VAC,50/60Hz)
- Consumption: 100-135 W
- Surrounding temperature: +10°C bis +35°C
- Certification as per ROHS, ISO 9001, CE
- Guarantee 2 years (extendable up to 3 years)

Video:

- IP-video channels: 8 (extendable up to 32)
- Recording rate: max. 800 MPixel/s*
- Image resolution up to 1280x1024 Pixel (with IP-HD licence up to 20MPixel per IP-video channel)

Recording:

- Compression procedure: MPEG-4, JPEG, M-JPEG, H.264, depending on camera
- Recording modes: continuous, event-activated, time-activated, SDK
- Ring storage: dynamic or static storage segmentation up to 24 harddrives, NAS/SAN
- Pre-alarm storage: individually adjustable for each camera from 10-900 sec.
- Recording playback: 1-4 channel playback, simultaneous, time-synchronized, variable playing speeds

Interfaces:

- Monitor outputs: 1x VGA, extendable with max. 2 Dual Head graphics cards up to 4x VGA/DVI
- USB-Ports: 6xUSB2.0
- PS2-Ports: mouse & keyboard

Software:

- Live view: per Multiscreen with 1,2,4,9,10,12,16,32-times view with Hot Spot Monitor function, 8 Layouts free configurable, integrated instant playback directly in Live view
- PTZ control: serial and via network, control via popup menu, keyboard and/or triaxial joystick
- Alarm inputs/outputs: IO support of IP-cameras and/or via EX-IO Server (optional) with up to 96 inputs and outputs
- Motion detection: Matrix with 2304 individual fields, selectivity of fields unlimited

*Megapixels/second represents a value for image processing speed. The values stated refer to the processing and encoding of image data in or of M-JPEG Codecs. Other values apply to the processing of other Codecs such as MPEG-4, H.264, transcoding of streams, recorder live display and remote monitoring. Calculation tables are available for dimensioning network-based video surveillance. Please contact our support personnel for exact planning.

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- IP-camera lost detection: message optical, acoustical & per E-Mail
- Alarm message dispatch : via Email, SMS, ICQ, with/without alarm image, Windows News Service, external programs
- Text imprint/overlay: time, date, free text: 50 characters, freely positionable fields, font size & type, text and background colors variable, 10 additional fields in DataLog operation
- Recording: DirectStream mode, time-controlled, permanent, alarm controlled, contact controlled. Pre-alarm- and postalarm recording, for each camera adjustable
- Weekly timer: Adjustable per camera, continuous, motion detection, alarm contact, out, individual holidays programmable
- Ring storage: dynamic or static operating mode, for each camera individually configurable
- Playback: per MULTIEYE® MultiPlayer and/or per MULTIEYE® NetworkPlayer with 1,2 3 and 4-times playback, integrated search functions, variable playback speed, Megapixel zoom function, bandwidth optimization
- Search criteria: Date, time, motion detection, MotionTrack, MotionSearch (image area search), motion histogram, text (with DataLog)
- Resolution: depending on camera resolution, up to 20MPixel/channel
- Video export: AVI-format, single videos, proceedings with or without player
- Single image export: BMP or JPEG with selectable area and image adjustment
- Authentication: digital certification through invisible watermark in exported image
- Video remote polling: cameras with the LiveViewer, adjustable popup and acoustic alarm, playback via the NetworkPlayer, monitoring and remote maintenance via MULTIEYE® RemoteControl (MRC), web polling of live cameras and recording (integrated web & video servers), VideoCenter II optional
- Password protection: Multilevel password protection, freely definable user groups with individual rights, true "four-eye principle"
- Protection function: protection from unauthorized access; deactivation of the Windows GUI through MULTIEYE® Shell
- Functional security: Video board Watchdog, crash recovery, auto-record, video outage recognition, recorder status reports, (drive failure, S.M.A.R.T.)
- System restorer: recovery of the MULTIEYE® system configuration with camera Snapshot storage.
- Logbook files: for event documentation
- Menu languages: D, DK, E, F, GB, H, I, NL, P, RO, S, SK, TR are updated continuously
- Software update: per LiveUpdater via the Internet, CD or as ZIP-file

Max. measurements:

B x H x T (in mm): 430 x 522 x 176
Weight: ca. 22 kg

Article number: NG0108 MULTIEYE® NVR

MULTIEYE® NET NVR

Item code	Description
NG0108	8/32 channel Network Videorecorder, Type NVR NG 8, with 8 activated IP-Video inputs. Expandable up to 32 IP video channels by REC IP-1 (NG1004) or REC IP-4 (NG1001), image data processing up to 800 Megapixel/s, depending on amount of harddrives, network camera codec and compression factor. Max. 3TB storage possible, housing 19", 4 U. incl. IP-HD Modul, Shell and NetworkPlayer server licence for 1 user. The recorders of the NG-series include additional to the standard RS232 interface also a RS485 interface. Price without HDD for Videodata. (OS and MULTIEYE® Software on internal HDD).
NG0308	8/32 channel Network Videorecorder, Type NVR NG 8 „BGV-certified“, with 8 activated IP-Video inputs. Expandable up to 32 IP video channels by REC IP-1 (NG1004) or REC IP-4 (NG1001), image data processing up to 800 Megapixel/s, depending on amount of harddrives, network camera codec and compression factor. Max. 3TB storage possible, housing 19", 4 U. Incl. EX IO Server, IP-HD Modul, Shell and NetworkPlayer serverlicence for 1 user. The recorders of the NG-series include additional to the standard RS232 interface also a RS485 interface. Price without HDD for Videodata. (OS and MULTIEYE® Software on internal HDD).

HARDWARE ENHANCEMENTS

Item code	Description
NG1499	REC DVI/VGA-4, 4-channel monitor exit. Only available with initial delivery. Not compatible with „BGV certified“ recorders.
NG1500	REC DVI/VGA-2, 2 channel monitor exit, 2x DVI or VGA via adapter. Only available with initial delivery. Not compatible with „BGV certified“ recorders.
NG1550	REC ATX power supply redundant. Only available with initial delivery.
NG1501	REC HDD 500GB Harddisk for NG Recorder, for 24/7 use with 2 years manufacturer warranty. Fan and temperature monitoring, integrated fan. Only available with initial delivery.
NG1502	REC HDD 1TB Harddisk for NG Recorder for 24/7 use with 2 years manufacturer warranty. Fan and temperature monitoring, integrated fan. Only available with initial delivery.
NG1600	REC RAID System, Raid 1 for Systemharddisk. Only available with initial delivery.
NG1611	REC RAID 500GB, Raid 1 for NVR/Business/Enterprise. Only available with initial delivery. Consisting of 2 disk drives, max. 1 Raid connection per system..
NG1612	REC RAID 1TB, Raid 1 for NVR/Business/Enterprise. Only available with initial delivery. Consisting of 2 disk drives, max. 1 Raid connection per system.
810501	REC RAID 1TB, Raid 1 for NVR/Business/Enterprise. Only available with initial delivery. Consisting of 2 disk drives, max. 1 Raid connection per system.
810701	EX-IO Server 6066, integrated Ethernet port, the 6066 has 6 opto-decoupled, digital inputs and 6 relay outputs for 250VAC @ 5A, and 30VDC @ 5A. The 6066 will be delivered with activation key for usage with MULTIEYE®-HYBRID DVR kits, NET software and recorders.
810175	EX-IO Server software license, for activation of 6066 units not supplied by us.
810620	3- Axis USB-Joystick, 12 switching functions, 2 of them on top of joystick knob, spring return to centre position, ergonomic desktop modell, nonwearing hall technology. Use the 12 buttons on housing and joystick to program comprehensive switching functions in MULTIEYE®.
140100	Mini condenser microphone, with integrated preamplifier, very sensitive, for all MULTIEYE®-HYBRID DVR kits and MULTIEYE® recorders, input supply voltage 12V DC.

810420 BNC box for DVR kits I 6200, 32100 and MP8200, as alternative to breakout cable. 16x BNC connector panel, 19", 1 U, closed sheet steel box, black, delivery includes 2 pieces of video connecting cable with 1 m length. For use of the BNC-boxes in conjunction with our real-time cards of the type MP8200 one box per card is needed. Here video signals and audio signals are put through.

SOFTWARE ENHANCEMENTS

Item code	Description
NGI001	REC IP-4, license key for activation of 4 additional IP video channels, for all recorders.
NGI003	REC Network Player, Software and Server license for MotionTracking, MotionSearch, playback, backup and storage of video sequences and still images over network, 1-4 channel playback, integrated cache. Can be used as single player for playback of copied videos on media, server license for 1 additional user.
NGI004	REC IP-1, activation licence for enabling an additional IP video input, suited for all recorders
810155	VideoCenter II Version 2.2., Video Management Software for remote viewing and administration of max. 32 MULTIEYE® systems with up to 1.024 cameras. Simultaneous display of up to 256 live cameras on up to 4 monitors. HotSpot function. Creation of individual Multiscreen Layouts, user-dependent storable. Site plans can be created individually with logical camera conjunction. Playback recordings with index indication, event protocols, control of alarm entry and exit. Up to 4 internet browser in Multiscreen integrable. PTZ control per pop up or joystick, support of Immervision IMV 1-1/3" panomorph (360°) lenses, enhanced user management. Delivery content: Client license with USB Dongle. Note: For enhanced playback functions the network Player must be activated on the MULTIEYE® Recorder. By usage of VCII upgrade in MULTIEYE® systems to version 2.1.1.3 the recorders need to be upgraded.
810172	DataLog module, universal data recording via RS-232/TCP/IP. Visualizing of data/transactions in live image and/or in playback of recorded videos incl. DataLog database enabling full-text search. Signal-word alarms and extensive filter functions are configurable. Typical data sources are cash registers (POS), ATMs, access controls, scanners, GPS antennas/receivers, NPR systems etc. Included in delivery are standard profiles for i.e. PC Cash, Barcoreader, GPS receiver, a DataLog activation key for one data source as well as 60 minutes Premium support time. The realization of customer or device specific DataLog profiles is charged according to time consumption (Item code 910000 and 910003 in Services).
810173	DataLog license, for an additional data source.
810190	AutoBackup module, for automatic copying and/or archiving of videos, time- or alarm-triggered, on internal/external data volumes or drives. network version.
810180	DeskTopLogger Module. For encoding, transmission, remote monitoring and remote recording of desktops via MULTIEYE®-HYBRID/NET. Scope of delivery: DTL Encoder Software, activation key for 1 desktop stream, user manual.
810170	ANPR Licence plate recognition module, 2 Channel, Software module for MULTIEYE®-NET or MULTIEYE® recorder for detection and evaluation of license plates. Incl. search funtion and notification. Switching of relay contacts in combination with optional available EX-IO board or EX- IO server.
810198	The ViaSys Plugin allows a camera's intelligent motion detection. The alarm data, which will include a free text and the image coordinates of the generated alarm, will be read in the MULTIEYE® DataLog interface and can trigger different actions on signal words. DataLog license (article 810173) is not included in the price.

SERVICE & SUPPORT

Item code	Description
NG2000	NG express manufacturing. Guaranteed shipment within 48 hours. (not for MX systems)
NG2001	NG warranty extension to 3 years. Only available with initial delivery.
NG2002	NG on-site-service for NVR/Business/Enterprise Recorder. Only available with initial delivery.