

## MULTIEYE®-HYBRID ENTERPRISE MX Video Surveillance Recorder



While developing this system, we placed great emphasis on operational security and quality. As a result, MULTIEYE®-HYBRID video recorders deliver image quality such as that known only in the HDTV area until now. “HYBRID” means the capability to administer and record videos with both analog and IP cameras. The recorders can be delivered with 8, 16 and 24 analog and four additional IP video channels. The 32-channel version is available with 32 analog inputs. On the first three models, additional IP camera channels can be activated at any time. The MULTIEYE®-NET MX NVR Network Video Recorder is recorder and storage server in one device and can be supplied with an internal storage capacity with up to 16TB. The MX NVR Recorder is designed for highly professional use and offers with RAID and dual power supplies with the highest degree of redundancy.

### Key features:

- Scalable Hybrid video recorder with up to 32 channels
- Analog, IP video and audio inputs, expandable per license
- Real-time operation: MPEG-4 ASP@L5 Hardware Codec
- Modular software and hardware architecture
- Quadplex operation
- Support of JPEG, MJPEG, MPEG-4 and H.264 IP video codecs
- Image processing rates analog up to 800 fps/ips, Image processing rate up to 800 MPixel / s\* through Direct Stream 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
- 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
- 2x 1Gbit networkboards
- Supports the ImmerVision IMVI-1/3 panomorph lens with automatic live and playback equalization and virtual PTZ control

\*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.

# MULTIEYE<sup>®</sup>-HYBRID ENTERPRISE MX

## Video Surveillance Recorder

### SPECIFICATION:

#### General:

- Operating system MS Windows XP
- Prozessor Core 2 Quad
- Random access memory 2GB
- Storage capacity in TB max. 16
- Devices: DVD-RW
- Voltage supply: 2x500 Watt (110-230VAC,50/60Hz)
- Consumption: up to 310 W
- Surrounding temperature: +10°C to +35°C (in stock -20°C to +50°C)
- Certification as per ROHS, ISO 9001, CE
- Guarantee 2 years (extendable up to 3 years)

#### Video & Audio:

- Videonorm: PAL, NTSC
- IP video channels: 4 (none with MX32) (extendable up to 24)
- Analog video channels: 8,16,24 or 32
- Audio inputs: 8,16,24 or 32
- FBAS video outputs: 1-4
- Recording rate: 200, 400, 600, 800fps
- Image processing: max. 800 MPixel/s\*
- Image resolution up to 1280x1024 Pixel (with IP-HD license 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

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### Integrated software features:

- Livemonitoring: via PC Monitor, 8 programmable Multiscreens and HotSpot(alarm)-view
- PTZ control: serial and via network, control via popup menu, keyboard and/or triaxial joystick
- Contact inputs/outputs: Intern up to 32 alarm inputs & 8 relais outputs, extern up to 96 inputs & 96 outputs via EX-IO Server, IO of supported IP cameras
- Motion detection: Matrix with 2304 individual fields, selectivity of fields unlimited
- 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
- Weekly timer: Adjustable per camera, continuous, motion detection, alarm contact, out, individual holidays programmable
- Search criteria: Date, time, motion detection, MotionTrack, MotionSearch (image area search), motion histogram, text (with DataLog)
- 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, (S.M.A.R.T.)
- Logbook files: for event documentation
- Menu languages: D, DK, E, GB, F, 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 662 x 176  
Weight: ca. 31 kg

**Article number:** NG0512 MULTIEYE®-HYBRID ENTERPRISE MX

## MULTIEYE®-HYBRID ENTERPRISE MX

Item code	Description
NG0512	12/32 channel Real-Time HYBRID Recorder, Type MX ENTERPRISE NG, with 12 activated video inputs, 8 analog and 4 IP video channels. Expandable up to 32 channels by REC EX-8 or REC IP-1/IP-4 license, 8x audio, storage capacity up to 16TB in housing, overall recording rate (analog and IP video) 300 fps/ips, of which analog 200 fps/ips. Housing 19", 4 HE. Incl. 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). As from the 17th analog channel, article no. NG1551 has to be ordered as well! For using the BNC-boxes in combination with our Realtime-cards of the type MP8200, one Box is required per card. Additional to the video signals, audio is also put through.

## HARDWARE ENHANCEMENTS

Item code	Description
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 16200, 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.
810501	Protocol Converter Box Type NPC for MULTIEYE® software and recorder for cash register- and transfer data integration of more than 50 different cash register systems (POS), ATM's and Zutrittskontrollsystemen as e.g. HUTH, Scheidt+Bachmann, IBM/Diebold, WincorNixdorf, NCR. Dateneingang seriell (RS 232) or Ethernet RJ45 (protokollabhängig). A DataLog licence (article no:810173) is included. .
810510	External converter USB/RS 485, for controlling high-speed-dome-cameras.
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®.
810701	EX-IO Server 6066, integrated Ethernet port, the 6066 has 6 opto-decoupled, digital inputs and 6 relay outputs for 250 VAC @ 5A, and 30 VDC @ 5A. The 6066 will be delivered with activation key for usage with MULTIEYE®-HYBRID DVR kits, NET software and recorders.
NG1053	REC IO, alarm in- and outputs, enhancement per 8 inputs and 2 relay switch outputs. Suitable for BUSINESS and ENTERPRISE recorder. Only available with initial delivery.
NG1056	REC EX-8, MPEG-4 board with additional 8 analog & 8 audio inputs, connector for EX-IO, overall recording rate analog 200(240) fps/ips. For all Enterprise Recorder. Only available as factory upgrade!
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.
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.
NG1602	REC RAID 8TB MX NG Serie. Only available with initial delivery.
NG1603	REC RAID 10TB MX NG Serie. Only available with initial delivery.
NG1604	REC RAID 12TB MX NG Serie. Only available with initial delivery.
NG1605	REC RAID 16TB MX NG Serie. Only available with initial delivery.

NGI606	REC RAID 4TB für MX NG Serie. Only available with initial delivery
NGI611	REC RAID 500GB, Raid I for NVR/Business/Enterprise. Only available with initial delivery. Consisting of 2 disk drives, max. 1 Raid connection per system..
NGI612	REC RAID 1TB, Raid I for NVR/Business/Enterprise. Only available with initial delivery. Consisting of 2 disk drives, max. 1 Raid connection per system.

## SOFTWARE ENHANCEMENTS

Item code	Description
NGI004	REC IP-1, activation licence for enabling an additional IP video input, suited for all recorders
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.
810155	<b>VideoCenter II Version 2.2., Video Management Software</b> 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.
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.
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.
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.
810190	AutoBackup module, for automatic copying and/or archiving of videos, time- or alarm-triggered, on internal/external data volumes or drives. network version.
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
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.