MULTIEYE®-HYBRID BUSINESS
Video Surveillance Recorder

The MULTIEYE®-HYBRID recorders of the BUSINESS-NG series will convince you of their operational convenience, functional diversity and economics. While developing the MULTIEYE®-HYBRID system, we placed great emphasis on operational security and quality. As a result, MULTIEYE®-HYBRID produces recorder-image quality such as that known only in the HDTV area until now. HYBRID means the capability to administer and record both analog and IP cameras.. Accordingly, even the basic recorder units are equipped with 32 camera inputs. Of those eight analog and one IP video input demo are already activated. Easily and without complications, you can activate additional inputs online later. Because of their high functionality and performance, MULTIEYE®-HYBRID recorders lend themselves for nearly all types of video surveillance applications, both commercial and industrial. Modular construction and the diversity of enhancement options, as well as the possibility for easy online updates, guarantee a very high level of investment security and provide you with a system which can grow along with your future requirements.

Die MULTIEYE®-HYBRID video recorders are also available as „BGV certified" versions.

Key features:
• Scaleable Hybrid video recorder with up to 32 channels
• Analog, IP video and audio inputs, expandable per license
• 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 100 fps/ips, Image processing rate up to 800 MPixel / s* through Direct Stream technology
• Support of all common network cameras and videoservers 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.

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SPECIFICATION:

General:

- Operating system MS Windows XP
- Prozessor Core 2 Quad
- Random access memory 2GB
- Storage capacity in TB max. 3
- Devices: DVD-RW
- Voltage supply: 400 Watt (110-230VAC,50/60Hz)
- Consumption: 95-155 W
- Surrounding temperature: +10°C bis +35°C (Lager -20°C bis +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: 1 (Demo license * not applicablent by extension with IP-1/IP-4) (extendable up to 24)
- Analog video channels: 8 (extendable up to 32)
- Audio inputs: 4
- FBAS video outputs: 1
- Recording rate: 100fps
- 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, extandable 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
- 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
- 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, (drive failure, 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 continiously
- 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. 23 kg

Article number:

NG0209	MULTIEYE®-HYBRID BUSINESS
NG0309	MULTIEYE®-HYBRID BUSINESS „BGV-Kassen"

MULTIEYE®-HYBRID BUSINESS

Item code	Description
NG0209	9/32 channel HYBRID Recorder, Type BUSINESS NG, with 9 activated video inputs, 8 analog (expandable up to max. 32 with REC EX-L4, REC IP-1/IP-4) and 1 DEMO-IP channel (demo channel is not applicable by extension with REC IP-4), 4x audio, storage capacity up to 3TB in housing, recording rate up to (analog and IP-Video) 300 fps/ips, of which analog 100 fps/ips. Housing 19", 4 U, Incl. 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).
NG0309	9/32 channel HYBRID Recorder, Type BUSINESS NG **„BGV-Certified"**, with 9 activated video inputs, 8 analog (expandable up to max. 32 with REC EX-4, REC IP-1/IP-4) and 1 DEMO-IP channels (Demo Channel is not applicable by extension with REC IP-1/IP-4), 4x Audio, storage capacity up to 3TB in housing, recording rate up to (analog and IP-Video) 300 fps/ips, of which analog 100 fps/ips. Housing 19", 4 U, Incl. REC IO 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
NG1050	REC EX-L4, for activation of 4 additional analog video inputs for BUSINESS NG recorder.
NG1052	REC 200, Upgrade for increasing analog recording rate to 200/240 fps/ips (only in the CIF mode) for BUSI-NESS recorders (not for „BGV certified" recorders). Only available with initial delivery.
NG1053	REC IO, alarm in- and outputs, enhancement per 8 inputs and 2 relay switch outputs. Suitable for BUSI-NESS and ENTERPRISE recorder. Only available with initial delivery.
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. RAID controller has to existent
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	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 accesscontrolsystems as e.g. HUTH, Scheidt+Bachmann, IBM/Diebold, WincorNixdorf, NCR. data input seriell (RS 232) or Ethernet RJ45 (protocol addicted). 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.
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.

SOFTWARE ENHANCEMENTS

Item code	Description
NG1001	REC IP-4, license key for activation of 4 additional IP video channels, for all recorders.
NG1002	REC IP-HD Modul, license key for enabling usage of Multi-Megapixel IP cameras with resolution > 1.4 Megapixel, for all recorders. This module represents a system upgrade.
NG1003	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.
NG1004	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
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.