◻MULTIEYE®

Mobile NVR/HVR Video Recorder ME16

The ME16 is a small, fan-free and powerful mini mobile video recorder with a image data processing rate of up to 1600/250 Mpixel/s thanks to the Intel i7 Core i7 CPU. The recorder is available with 8 IP video inputs, extendable to 16 IP channels by licenses or extendable by video grabber card with 4 or 8 analog inputs. The ME16 is the perfect product for demanding surveillance tasks in the mobile field, e.g. within buses/coaches, commercial passenger vehicles, aircraft carriers, railway systems, mission-critical fleets and law-enforced vehicles.

The ME16 is supplied with an internal 128GB SSD hard disk for both operating system and MULTIEYE 3 software. The video data are stored on up to 2 x 2,5" hot swappable hard disks supporting RAID 0,1 allowing total storage capacity of up to 8TB. The recorder is equipped with 4x ME12 ports for GBE POE. For hybrid usage the recorder will be supplied with a internal video grabber card, allowing 4 or 8 analog inputs connectable via breakout cable. The mobile video recorder can be operated by 9-36VDC or at 110 - 240 V AC by external power supply and is designed for operating temperatures from -40 up to +70°C. The optional available internal UPS battery allows 10 minutes operating.

The recorder can be equipped with LTE-, GPS, Bluetooth and WLAN modules. With its modular design, the ME16 is both scalable and upgradable. Its advanced functionality and performance provide a high degree of investment protection. For the integration of network cameras, the MULTIEYE 3 VMS software supports over 1200 of the most common IP- video cameras and video servers from over 100 different manufacturers and thus enables quick and hassle-free adaption.

Even the basic ME16 recorder model offers video monitoring and alarm management. Multiple users can access the live and recorded data with PCs, notebooks, iOS or Android based mobile phones and tablet PCs through different networks / bandwidths at the same time.

Used in combination with VideoCenter III, a multitude of MULTIEYE recorders can centrally be retrieved

Features ME16

- 8/16-channel video recorder for IP only and Hybrid operation
- 128GB SSD (internal) + 2x 2 ½" hot swappable SATA hard disks within drive bays
- Recording rate up to 960fps*
- Maximum image data processing rate of 1.600/250 Mpixel/s
- Easy and clear operation
- Expandability through many soft- and hardware modules as well as through licences
- Quadplex operation
- Support of common IP cameras and video servers of more than 100 manufacturers
- Supported video codecs: JPEG, MJPEG, MPEG-4 and H.264
- Motion detection, independent of camera
- Privacy zone masking
- Hot Zone Megapixel Zoomer can be controlled by mouse / joystick in live and playback mode
- Alarm input and switch output support network cameras / video servers, IO server
- Clear and highly configurable user management, dual-control principle support
- LiveUpdater: keeps the MULTIEYE software updated at all times

Live view and remote monitoring

- Programmable multiscreens with hotspot monitor
- Multi-monitor support
- Remote monitoring with bandwidth-dependent scalability, optimized for Megapixel operation
- App for iPhone/iPad + Android
- Support of ImmerVision IMVI-1/3 panorama lens with automatic live and playback rectification and virtual PTZ function

Recording / playback / analysis

- Multifunctional storage management, dynamic or static recording mode
- Pre- and post-alarm as well as suspicious alarm recording
- Event recording through motion detection, timer operation, alarm inputs, data interface
- Playback via MultiPlayer, NetworkPlayer, Web browser. Simultaneous playback, keyboard, joystick and jog/shuttle support Full screen up to 4x multiscreen, various search keys
- Smart search, rapid evaluation thanks to the integrated video analysis with "MotionSearch", "MotionTrack" and "MotionHistogram" functions

Security / service

- Software watch dogs, crash recovery, video loss detection and Shell guarantee reliable functionality
- Digital watermark in both videos and snapshots
- Alarm, status and routine messenger via e-mail, ICQ, Net-Send or via alarm contact, data interface
- S.M.A.R.T hard disk monitoring
- SystemRestorer for storage and recovery of the MULTIEYE configuration, including camera reference snapshot function

Interfaces

- Data interfaces via TCP or COM for IO servers, cashpoints / ATMs, video sensors, bar code scanners, ZUKO, EBÜS, facility management etc.
- Multilingual design with several languages, direct language switch supported

Technical data

- Recording channels: Up to 16. Licenses for 8 IP-Video channels included. Expandable by 4 or 8 channel grabber card for analog inputs and/or additional IP video channels.
- Digital IO: 4 in and 4 out
- Video container format: AVI
- Image data processing rate: up to 1600x250MPixel/s*
- Recording rate: max 960fps*
- 1 audio input, 1 audio output
- Monitor resolution: up to 4096x2304
- USB Ports: 2x USB 3.0, 2x USB 2.0.
- Video Ports: 1xDVI-I, 1xDP Port, 1xVGA
- LAN: 2x 1000BaseTRJ45 Ethernet, 3 x RS232 (2 with RS-422/485).
- PoE Ports: 4 xM12 GbE PoE: IEEE802.3AF/AT 15,4W per port
- SIM Card socket: 1 x SIM Card Socket Supported Onboard with eject
- Wireless support LTE, 3.5G w/ SIM Card, WLAN, GPS Dead Reckoning, GSM/GPRS, BT (optional)
- Software: Windows® 10 Enterprise + MULTIEYE-3 incl. Shell +Network Player
- Hard Disks: intern 128GB SSD + 2 drive bays for hot swappable 2½" SATA hard disks, RAID 0, 1 support
- Housing: Aluminium Alloy
- Dimensions: 250x150x55mm
- Weight: ca.1,8kg
- Power Input: 9-36VDC
- Power Protection: Automatics Recovery Short Circuit Protection | Power Management: Vehicle Power Ignition for Variety Vehicle| Power Off Control: Power off Delay Time Setting by Software and BIOS;
- Battery (UPS): internal for 10 minutes operating (optional)
- Vibration (random): 2.5g@5~500 Hz with SSD
- Watchdog Timer soft and hardware based
- Operating temperature: -40 ~ + 70°
- Relative Humidity: 0% RH -95%RH
- Certificates: Vibration Operating: MIL-STD-810G, Method 514.5, Category 20, Ground Vehicle-Highway; Truck Storage MIL-STD-810G, Method 514.5, Category 24, Integrity Test; Shock Operating: MIL-STD-810G, Method 516.5, Procedure I, Trucks and semi-trailers=15G (11ms) with SSD; Crash Hazard: MIL-STD-810G, Method 516.5, Procedure V, Ground equipment=100g; Certifications: CE, FCC Class A, E-13, EN50155, EN50121
- Warranty: 12 month
- Externsion: For the implementation of customized business and system solutions, we hold several hard- and software modules at your disposal, e.g. upgrade licences, software modules such as AutoBackup, Shell, VideoCenter III, DataLog, NetworkPlayer, PrivacyShield, ANPR licence plate recognition, Face recognition.

depending on camera codec, image size, data hard disks

* the image data processing rate is expressed in MPixel/s. The stated values refer to the processing of H.264 streams with 2 i-frames/s and Gbit LAN. Other values apply for the processing of different codecs such as MPEG-4, MJPEG, transcoding of streams, recorder live display and remote access.*

Delivery Scope:

ME16 Network Video Recorder with 8 IP-Video inputs	MULTIEYE AutoBackup module
1TB SAT hard disk, 2 ½"	AC Power Supply 60W, 24VDV
2TB SATA hard disk, 2 ½"	GSM Module
4TB SATA hard disk, 2 ½"	GPS Module
4-channel analog video extension	WLAN Module
8- channel analog extension	Battery internal (UPS)
2-channel IP video license	Flightcase
4-channel IP video license	Service package MULTIEYE