Media Recorder Hydra^{IP} MR3060-6 (M/S)

Video solution

Description
Digital media recorder (6 channel) of the Hydra^{IP} series. Designed specifically for use in buses, trains and other vehicles. In different versions available: master & slave version with 100 M/bit ethernet interface M12, basic version without ethernet interface – master & slave are scalable to 12-channel system.

Article number
MR3060-6: VPV200076; MR3060-6M: VPV200084

MR3060-6S: VPV200083

Main characteristics
- Recording of up to 12 x analogue CVBS, additional data, Audio, GPS (optional)
- Complete integration into vehicle systems
- Quick & easy installation
- Patented housing with integrated DIN rail & screw channel, maintenance free, fanless
- Innovative multi-level security concept with electronic key for hard disk release

Video input/ouput	6 (master/slave: 12) x video in (CVBS, BNC), 1 x video out (CVBS, BNC)
Recording	Video: PAL/NTSC, up to 300 fps (2 x 6 channel, CIF), supported resolutions: CIF (352 x 288), 2CIF (720 x 288), 4CIF (720 x 576); 2-channel audio analogue, additional data as IBIS & IBIS+, recording in separate ring-, alarm archives; 24/7 permanent, recording time: up to 30 days (depend on cameras quantities and quality settings), removable storage medium with vibration protection, Automated deleting of data can be configured, compression: MPEG-4 AVC (H.264), storage on HDD and SSD with capacity up to 500 GB
System	Integrated UNIX OS, multi processor system, automatic self controlling, S.M.A.R.T. functionality, WatchDog, internal real time clock, extremely short boot up & shutdown time, other supported technologies/protocols HTTP, NTP, Syslog, IBIS, IBIS+, buffering of power supply using SuperCaps, operating modes: recording, standby, sleep
Security	HD-lock (physically & software based), electronic key for individual access rights, cryptographic mechanism: signature of recorded data, sabotage and motion detection, configurable lead & follow-up times for the system and alarm recording, compliant to European data protection standards
Video output	PAL (720 x 576), single and multi views of all connected cameras at one video output, free configurable, automatic sequential image forwarding, full control using sensors connected to GPI, OSD information (cameras, error)
Interfaces	Video in, video out (CVBS, BNC), 2x Audio (5 KOhm, max. 2 Vpp), IBIS, 1 x USB 2.0, Interface for electronic key, LED Block 4 x multi colour LED, isolated general purposes inputs/outputs: 6 x GPI, 2 x including power supply 12 VDC, max. 50 mA (differential, low: 0-3 V, high: 6-34 V), 4 x GPO (Relay, optical coupler, max. 60 V DC, 125 V AC, 500 mA), Weidmüller contacts: 1 x 16 pins (power, ignition, USB 2.0), ignition: differential (low: 0–3 V, high: 6–34 V); 2 x 18 pins (power supply external devices, GPIO, audio), Ethernet 100 Mbit/s M12 (M/S version)
Integration	compliant to VDV300 IBIS, IBIS+, active & configurable answers for communication with vehicle systems, recording of all IBIS data, compatibility to DEROVIS/DResearch fleet management system
Communication	Integrated or external communication module with Wi-Fi (802.11) or cellular GPRS / UMTS / HSUPA, GPS data recording and transmission *
Power supply	System power: 24 V DC, power supply of external devices: 12 V DC / max. 2.0 A
Power consumption	Minimum consumption for protecting battery: sleep mode: < 1 W, standby mode: < 5 W, recording mode max. 10 W (excluding external power supply) and max. 30 W including external power supply
Temperature	Operating temperature: -40 ℃ … +85 ℃ (TX, EN50155), Record using HDD 0 ℃ … 55℃ humidity: 10 … 90 % (not condensing)
Installation, Service & Maintenance	Easy installation/deinstallation, service & configuration via Web interface, update via USB stick, maintenance free housing
Housing, dimensions & weight	Robust industrial design, stainless aluminium housing, fanless, IP 42, integrated screw channels and DIN rail, external dimensions (W x H x D): 100 x 84 x 208 mm, weight: ca. 1200 g
Scope of delivery and available Accessories	Recorder, product CD including documentation, firmware and video data analysis software ImageFinderNX; accessories: mounting panel, adapter cable GPIO and CONTROL, analysis station USB-TTU, USB-TTU adapter for HydraIP storage disc, wiring block, removable data disks HDD (up to 500 GB) & SSD (up to 128 GB), electronic key, Plug sets and accessories for crimping contacts
Certifications	e1, EN 50155, CE, RoHS, VDE, DIN 5510, EN 55022, EN 61000, EN 55024, EN 60950, EN 50121-3

Information refer to the current state and may be subject to unannounced changes.
* The recording and / or transmission of GPS data requires the 3G/UMTS communications module