

# Media Recorder Hydra<sup>IP</sup> MR3080-8

## Video solutions



### Description

8-channel digital media recorder for recording analogue video streams. Especially designed for the use in buses, trains and other vehicles – with 4 network interfaces prepared for extension with automatic people counting system (APS) functionality.

### Article number

MR3080-8: VPV200085

### Main characteristics

- Recording of up to 8 x analogue CVBS, additional data, Audio, GPS (optional)
- Complete integration into vehicle systems (IBIS, IBIS+)
- Quick & easy installation
- Patented housing with integrated DIN rail & screw channels, maintenance free, fan less
- Innovative multi-level security concept with electronic key for hard disk release

<b>Video input/output</b>	8 x video in (CVBS, BNC), 2 x video out (CVBS, BNC)
<b>Recording</b>	Video: PAL/NTSC, up to 200 fps (CIF), supported resolutions: CIF (352 x 288), 2CIF/half picture (720 x 288), PAL Full D1 (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
<b>System</b>	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
<b>Security</b>	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
<b>Video output</b>	2 separate video outputs, each PAL (720 x 576), single-and multi-views of all camera signals on the video out, fully configurable, automatic sequential picture switching, controllable by sensors on the GPI, OSD information (cameras, error), parallel output of passenger information (Q1/2011)
<b>Interfaces</b>	Video in, video out (CVBS, BNC), 2 x Audio (5 KOhm, max. 2 Vpp), IBIS, 1 x USB 2.0, Mini-DIN for electronic key, LED Block 4 x multi colour LED, isolated general purposes inputs/outputs: 6 x GPI (differential, low: 0-3 V, high: 6-34 V), 4 x GPO (Relay, optical coupler, 2 x including power supply 12 VDC, max. 60 V DC, 125 V AC, 500 mA), Weidmüller contacts: 1 x 16 pins (power, ignition, USB 1.0), ignition: differential (low: 0-3 V, high: 6-34 V); 2 x 18 pins (power supply external devices, GPIO, audio) , 4 x Ethernet 100 M/bit (M12)
<b>Integration</b>	compliant to VDV300 IBIS, IBIS+, active & configurable answers for communication with vehicle systems, recording of all IBIS data, compatibility to DEROVIS/DRresearch fleet management system
<b>Communication</b>	Integrated or external communication unit for data transmission unit using WLAN (802.11) or mobile communications networks as GPRS/UMTS/HSUPA, GPS-data recording and transmission*
<b>Power supply</b>	System power: 24 V DC (9 ... 32), power supply of external devices: 12 V DC / max. 2.0 A,
<b>Power consumption</b>	Minimum consumption for protecting battery: sleep mode: < 1 W, standby-mode: < 10 W, recording mode max. 22 W (excluding external power supply) and max. 42 W including external power supply
<b>Temperature</b>	Operating temperature: -40 °C ... +85 °C (TX, EN50155 ), Record using HDD 0 °C ... 55°C humidity: 10 ... 90 % (not condensing)
<b>Installation, Service &amp; Maintenance</b>	Easy installation / de-installation, service & configuration via Web interface, update via USB stick, maintenance free housing
<b>Housing, dimensions &amp; weight</b>	Robust industrial design, stainless aluminium housing, fanless, IP 42, integrated screw channels and DIN rail, external dimensions (W x H x D): 160 x 85 x 207 mm, weight: ca. 1900 g
<b>Scope of delivery and available Accessories</b>	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
<b>Certifications</b>	e1, EN 50155, CE, RoHS, VDE, DIN 5510, EN 55022, EN 61000, EN 55024, EN 60950

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