Video Solutions People Counting Fleet Management On-Board Systems

Hydra^{IP} MR4840

Description

Digital 8-channel hybrid recorder of the HydralP series for the recording of analog and digital camera signals. Specially designed and certified for mobile use in road and railway vehicles.

Article number

MR4840 DRV110222 MR4840 4G WLAN DRV110225

Main features

- Complete integration into vehicle systems
- Fast & easy installation
- Compliant with IBIS VDV300 and IBIS VDV301 (IBIS over IP)
- Robustes housing, fanless and no ventilation slots
- Eletronic key for storage media removal (HydraIP SmartKey)
- Data security by multilayer security concept (HydraIP SmartLock)
- GPS module included (GNSS GPS-NAVSTAR)
- Recording of additional data (audio, event data, IBIS...)
- Optional transmission module (LTE/4G/3G/WLAN) available
- Expendable with automatic people counting and fleet management system
- Automatic position detection in linked systems



System	Multi processor system with automatic self-monitoring (temperature, error statuses) UNIX operating system Internal real time clock (RTC) The power supply of the storage media is buffered with Super caps FW-Updates and configuration by direct connection or USB stick Integrated web interface (HydraIP ServiceTool) for configuration, system diagnostic and data download
Recording	Flexible definition of ring and alarm recording Automatic deletion of data according to FIFO principle Recording time of up to 30 days (depending on the individual settings of the system and capacity of the storage media) Analog Video: Up to 100fps (4 CIF) Supported resolutions: CIF (352x288), 2CIF (720 x 288), 4CIF (704 x 576) Video compression: H.264 Digital Video (IP): Video compression: H.264 Additional data: Audio, IBIS VDV300, IBIS VDV301 (IBIS over IP), event data (System state, Diagnostic data.), GPS data, CAN-FMS, acceleration data of internal acceleration sensor
Interlocking System & Data Security	Electromechanical locking of storage media for protection against unauthorised or premature removal of the storage media. Removal of the storage media by an electronic key (HydraIP SmartKey). Removal of the storage media is not possible before writing— and reading—processes have stopped. Loss of data or damage of storage media in cause of premature removal is avoided. Removal of the storage media from currentless system possible. To analyse the recorded video data, the analysis station USB—TTU and the Derovis analysis software application ImageFinder NX is required. All data are recorded in special data format and are not readable in any other system. For giveaway of the encrypted data a special player software ImageFinder NX Player is available. Possibility of four—eyes principle for inspection of video data with ImageFinder NX (according to data security standards).

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Interfaces 8 x Video Int (CVBS, BNC) 2 x Wideo Out (CVBS, BNC) 1 x USB 2.0 service interface 4 x Ethernet (CID OMHYS, M12 D-coded) 1 x GPS NANSTAR (FARRA type) 9 x Digital In (GP) (C2 with internal switching voltage) 2 x Digital In (GP) (C2 with internal switching voltage) 2 x Digital In (GP) (C2 with internal switching voltage) 2 x Digital In (GP) (C2 with internal switching voltage) 2 x Digital In (GP) (C2 with internal switching voltage) 2 x Digital In (GP) (C2 with internal switching voltage) 2 x Digital In (GP) (C2 with internal switching voltage) 2 x Digital In (GP) (C2 with internal switching voltage) 2 x Digital In (GP) (C2 with internal switching voltage) 2 x Digital In (GP) (C2 with internal switching voltage) 2 x Digital In (GP) (C2 with internal switching voltage) 2 x Digital In (GP) (C2 with internal switching voltage) 2 x Digital In (GP) (C2 with internal switching voltage) 2 x Digital In (GP) (C3 with internal switching voltage) 3 x Sabilizer oper supply for external devices (12 vDC / ZA) 1 x IND VONDO 3 x ANN-FNS 1 x USB 2 Q 1 x X EXPLOYED 3 x L TE (AGT) GFAKRA type D, bordeaux) 1 x WLAN (GFAKRA type D, bordeaux) 2 x Dordeaux (GFAKRA type D, bordeaux) 1 x WLAN (GFAKRA type D, bordeaux) 2 x WLAN (GFAKRA type D, bordeaux) 2 x WLAN (GFAKRA type D, bordeaux) 2 x WLAN (GFAKRA ty		
2 x Video Out (CVRS, BNC) 1 x USB 2.0 service interface 4 x Ethernet (100 Mist/s, M12 0-coded) 1 x GPS NAVSTAR (RAMRA type C, blue) Phantom power 3,6 VDC 4 x color: Lib for signalization of system statuses 2 x Audio (Sk0hm, max 2Vgp) 3 x Digital in (GPD) (changeover (relay), contacts: max. 60 VDC, 125 VAC, 500 mA) 1 x Stabilized benever supply for external devices (12 VDC / 2 A) 1 x IBIS VDV300 1 x CAN-PMS 1 x USB 2.0 1 x Ignition signal: (low: 0-3 VDC, high: 6-34 VDC) 1 x Interface for external devices MR&RAO 46 WLAN: 1 x LTF 4/63 Sig KARRA type 0, bordeaux) 1 x WLAN (FAKRA type 1, beige) Integration Compliant to VDV300 IBIS, IBIS VDV301 (IBIS-IP) Automatic answers to IBIS status beness Remote control by network API Control by General Purpose inpost (GP) Signaling of system states by General Purpose Output (GPO) Integration into Deroxi field management system Power supply Environment Operating temperature: -25°C 470°C EN 50155 Class T3 Storage temperature: -25°C 480°C M. 280 VDC Himinal power consumption (protection of the vehicle battery) Operational modes: SleepMode < 1 W, StandbyMode < 5 W, Recording Mode max. 12 W, with external devices max. 40 W Environment Operating temperature: -25°C 470°C EN 50155 Class T3 Storage temperature: -40°C 85°C Himidity: 95 % (not condensing). Active temperature management Housing Robust aluminum housing with cooling profile for passive cooling Fanless, no ventilation sists Protection class: IP42 Integrated IBN rail and & screw channel Easy and fast installation with Derovis mounting panel Dimensions (W x H x D: 160 x 84 x 208 mm Weight: approx. 1900 g (without otroage media). Accessories Storage media Hydral P H03800 (500 68 P 500 68 railway / 11B / 27B) Mounting bracket Electronic key Mydral P SmartKey HK3900 External module Hydral P MSTH 11G of WLAN 4, 6, GPS) Ethernet Switch Hydral P SMSTQ (10 x M12 D-coded Ethernet Interfaces) Analysis station Hydral P MSTH (17G WLAN 4, 6, GPS) Ethernet Switch Hydral P MSTH (17G WLAN 4, 6, GPS)	Video output	Single and multiview of all camera signals.
Automatic answers to IBIS status checks Remote control by network API Control by General Purpose Input (GPI) Signalling of system states by General Purpose Output (GPO) Integration into Derovis fleet management system System power: 24 VDC (9 32 VDC) Minimal power consumption (protection of the vehicle battery) Operational modes: SleepMode < 1 W, StandbyMode < 5 W, Recording Mode max. 12 W, with external devices max. 40 W Environment Operating temperature: -25°C +70°C EN 50155 Class T3 Storage temperature: -40°C +85°C Humidity: 95 % (not condensing), Active temperature management Robust aluminum housing with cooling profile for passive cooling Fanless, no ventilation siots Protection class: IP42 integrated DIN rail and & screw channel Easy and fast installation with Derovis mounting panel Dimensions (W x H x D): 160 x 84 x 208 mm Weight: approx. 1900 g (without storage media), approx. 2100 g (with storage media) Accessories Storage media HydralP H03800 (500 GB / 500 GB railway / 1TB / 2TB) Mounting bracket Electronic key HydralP SmartKey HK3900 External module HydralP SPI04210 (10 x General Purpose Input (GPI) and 2 x General Purpose Output (GPO)) External module HydralP SMartKey (10 x M12 D-coded Ethernet interfaces) Analysis station HydralP SSB-TTU 3 Conformities & Certification RoHS, REACH, VDE, UN ECE R10 (E1), UN ECE R118, EN 50155, EN 61373, EN 50121-3-2, EN 50155, EN 45545-2,	Interfaces	2 x Video Out (CVBS, BNC) 1 x USB 2.0 service interface 4 x Ethernet (100 Mbit/s, M12 D-coded) 1 x GPS NAVSTAR (FAKRA type C, blue) Phantom power 3,6 VDC 4 x color LED for signalization of system statuses 2 x Audio (5k0hm, max 2Vpp) 9 x Digital In (GPI) (2x with internal switching voltage) 2 x Digital Out (GPO) (changeover (relay), contacts: max. 60 VDC, 125 VAC, 500 mA) 1 x Stabilized power supply for external devices (12 VDC / 2 A) 1 x IBIS VDV300 1 x CAN-FMS 1 x USB 2.0 1 x Ignition signal: (low: 0—3 VDC, high: 6—34 VDC) 1 x Interface for external devices MR4840 46 WLAN: 1 x LTE/46/36 (FAKRA type D, bordeaux)
Minimal power consumption (protection of the vehicle battery) Operational modes: SleepMode < 1 W, StandbyMode < 5 W, Recording Mode max. 12 W, with external devices max. 40 W Environment Operating temperature: -25°C +70°C EN 50155 Class T3 Storage temperature: -40°C +85°C Humidity: 95 % (not condensing), Active temperature management Housing Robust aluminum housing with cooling profile for passive cooling Fanless, no ventilation siots Protection class: IP42 integrated DIN rail and & screw channel Easy and fast installation with Derovis mounting panel Dimensions (W x H x D): 160 x 84 x 208 mm Weight: approx. 1900 g (without storage media), approx. 2100 g (with storage media) Accessories Storage media HydraIP HD3800 (500 GB / 500 GB railway / 1TB / 2TB) Mounting bracket Electronic key HydraIP SmartKey HK3900 External module HydraIP GPI04210 (10 x General Purpose Input (GPI) and 2 x General Purpose Output (GPO)) External module HydraIP KM4111 (for WLAN, 4G, GPS) Ethernet Switch HydraIP ESW1820 (10 x M12 D-coded Ethernet interfaces) Analysis station HydraIP USB-TTU 3 Conformities & Certification RoHS, REACH, VDE, UN ECE R10 (E1), UN ECE R118, EN 50155, EN 61373, EN 50121-3-2, EN 50155, EN 45545-2,	Integration	Automatic answers to IBIS status checks Remote control by network API Control by General Purpose Input (GPI) Signalling of system states by General Purpose Output (GPO)
Storage temperature: -40°C +85°C Humidity: 95 % (not condensing), Active temperature management Robust aluminum housing with cooling profile for passive cooling Fanless, no ventilation siots Protection class: IP42 integrated DIN rail and & screw channel Easy and fast installation with Derovis mounting panel Dimensions (W x H x D): 160 x 84 x 208 mm Weight: approx. 1900 g (without storage media), approx. 2100 g (with storage media) Accessories Storage media HydraIP HD3800 (500 GB / 500 GB railway / 1TB / 2TB) Mounting bracket Electronic key HydraIP SmartKey HK3900 External module HydraIP GPI04210 (10 x General Purpose Input (GPI) and 2 x General Purpose Output (GPO)) External module HydraIP SW1820 (10 x M12 D-coded Ethernet interfaces) Analysis station HydraIP USB-TTU 3 Conformities & Certification RoHS, REACH, VDE, UN ECE R10 (E1), UN ECE R118, EN 50155, EN 61373, EN 50121-3-2, EN 50155, EN 45545-2,	Power supply	Minimal power consumption (protection of the vehicle battery)
Fanless, no ventilation slots Protection class: IP42 integrated DIN rail and & screw channel Easy and fast installation with Derovis mounting panel Dimensions (W x H x D): 160 x 84 x 208 mm Weight: approx. 1900 g (without storage media), approx. 2100 g (with storage media) Accessories Storage media HydralP HD3800 (500 GB / 500 GB railway / 1TB / 2TB) Mounting bracket Electronic key HydralP SmartKey HK3900 External module HydralP GPI04210 (10 x General Purpose Input (GPI) and 2 x General Purpose Output (GPO)) External module HydralP KM4111 (for WLAN, 4G, GPS) Ethernet Switch HydralP ESW1820 (10 x M12 D-coded Ethernet interfaces) Analysis station HydralP USB-TTU 3 Conformities & Certification RoHS, REACH, VDE, UN ECE R10 (E1), UN ECE R118, EN 50155, EN 61373, EN 50121-3-2, EN 50155, EN 45545-2,	Environment	Storage temperature: -40°C +85°C Humidity: 95 % (not condensing),
Mounting bracket Electronic key HydralP SmartKey HK3900 External module HydralP GPI04210 (10 x General Purpose Input (GPI) and 2 x General Purpose Output (GPO)) External module HydralP KM4111 (for WLAN, 4G, GPS) Ethernet Switch HydralP ESW1820 (10 x M12 D-coded Ethernet interfaces) Analysis station HydralP USB-TTU 3 Conformities & Certification RoHS, REACH, VDE, UN ECE R10 (E1), UN ECE R118, EN 50155, EN 61373, EN 50121-3-2, EN 50155, EN 45545-2,	Housing	Fanless, no ventilation siots Protection class: IP42 integrated DIN rail and & screw channel Easy and fast installation with Derovis mounting panel Dimensions (W x H x D): 160 x 84 x 208 mm
	Accessories	Mounting bracket Electronic key HydralP SmartKey HK3900 External module HydralP GP104210 (10 x General Purpose Input (GPI) and 2 x General Purpose Output (GPO)) External module HydralP KM4111 (for WLAN, 46, GPS) Ethernet Switch HydralP ESW1820 (10 x M12 D-coded Ethernet interfaces)
	Conformities & Certification	

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Information refers to the current states and may be subject to unannounced changes.

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