



MVCD1000

Heavy Duty Video Control Unit

Heavy Duty Video Control Unit MVCD1000

The digital heavy duty MVCD1000 video control unit represents the latest generation of intelligent Motec video control units. Developed, manufactured, and programmed in Germany, future-proof due to software updates, and equipped with numerous intelligent functions, the MVCD1000 offers countless heavy duty application options in a range of areas.

Equipped with an Altera FPGA (SoC) with 925 MHz dual-core ARM Cortex-A9 MPCore processor, 1 GB RAM, 4 GB Flash (upgradeable), and a functionally scalable embedded Linux, the MVCD1000 represents a universal platform for heavy duty camera systems with high requirements. The robust, anodised and coated aluminium housing makes the MVCD1000 dust-proof and pressure washer as well as submersion-proof (IP65 and IP68). The device is virtually indestructible, even in the toughest of conditions – quality “Made in Germany”.



Key Facts

- On-board electronics integration via bi-directional control cable, CAN interface, and Ethernet connection available
- Additional active sensors, e.g. radar and ultrasound can be optionally implemented (sensorfusion available soon)
- Altera FPGA (SoC) with 925 MHz dual-core ARM Cortex-A9 MPCore processor, 1GB RAM, 4 GB Flash (upgradeable), functionally scalable via the Motec-embedded Linux OS
- Video input for up to 4 cameras (PAL/NTSC)
- Video output via analogue monitor output (FBAS) and video streaming via Ethernet connection (available soon)
- Future-proof due to continuous software updates

Package contents

MVCD1000 Digital Video Control Unit	406 1000 000
Operating instructions	

Standards/Certificates/Quality Seals

- (E13) 10R-04 13417
- CFR47
- Part 15B
- ECE10R4



Technical data

■ System Design

Altera FPGA (SoC) with ARM Cortex A9 processor, 1GB RAM, 4 GB Flash (upgradeable), functionally scalable via the Motec embedded Linux OS

■ Video Input

Up to 4 cameras (PAL/NTSC)

■ Video Output

Video output via analogue monitor output (FBAS) and video streaming via Ethernet connection (available soon)

■ Electric Properties and Interference Resistance

On-board network integration capability, 12 V...48 V DC (rated voltage 9...60 V DC), interference-resistant electrical layout in accordance with EN 13309, EN 14982, EN 50121, EN 55022, EN 61000, ISO 11452, and ISO 13766, with intelligent internal safety functions

■ Operating Temperature

-30 °C...+85 °C

■ Storage Temperature

-40 °C...+85 °C

■ Weight

1,700 g

■ Standard Power Consumption

Eco-friendly, energy-efficient design, standard power consumption: 5.6 W at 12 V, 6.1 W at 24 V, and 7.5 W at 48 V

Overall system, incl. Motec cameras, monitor, and control unit: 3 W at 12 V, 13.4 W at 24 V, and 15 W at 48 V

■ Power Consumption

Maximum 4 A

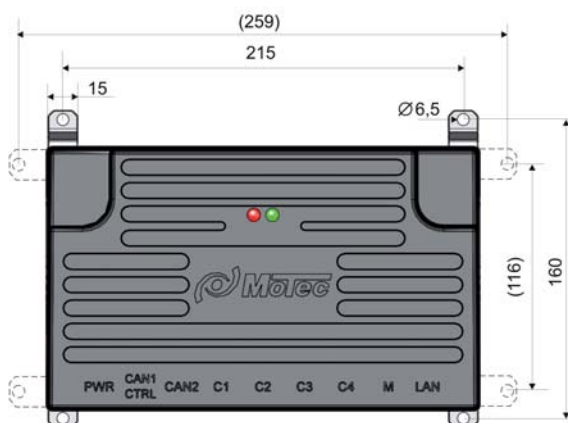
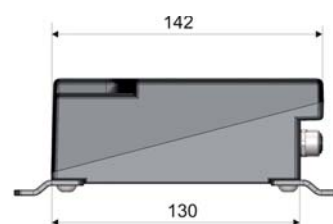
■ Housing

Robust aluminium housing, anodised and coated for added weather resistance, dust and submersion-proof (IP68) in accordance with ISO 20653 and IEC 60529, corrosion and salt spray-resistant in accordance with DIN 60068, resistant to extreme sunlight (UV-resistant in accordance with DIN 75220), acid and chemical-resistant in accordance with test plan

■ Design

Flat, compact, and installation-friendly design: Dimensions H 61 x B 233 x T 142 mm

Dimensions in mm



Motec GmbH
Oberweyerer Straße 21
65589 Hadamar-Steinbach
GERMANY

Phone +49 6433 9145-0
Fax +49 6433 9145-45
info@motec-cameras.com
www.motec-cameras.com