

MOVECAT I-Motion Basic-C show controller

Compliant with BGV D8 and C1, as well as igvw SQ P2 D8 Plus and EN 61508 SIL 1 to SIL 3



The I-Motion Basic-C controller, which belongs to the Basic controller family, constitutes a compact system controller for the systemic control of kinetic drives in mobile and flexible project applications.

The device, which is in desk format and furnished with a hand rest for greater comfort, is equipped with an integrated dynamic control lever with a dead-man function and speed ratio control, a high-resolution rotary encoder

with a button function, a 12" 4C touch screen and an input keyboard. Three USB ports for external devices such as a mouse, trackball, keyboard or memory stick are built in to the housing. A VGA output is provided for an external monitor. Two I-Net outputs allow integration via cable to the I-Motion network.

Further features include an ID chip card reader with user-level evaluation and an integrated USV module with

mains filter that provides effective protection against power outages. The controller also boasts such features as self-testing of relevant functions prior to system enabling as well as group-transcending error monitoring within a network.

The Basic-C controller is armed with a robust metal housing, whilst a complementary shockmount road case is available as an option. The Basic-C in combination with the I-Motion software disposes over an Object mode for very simple programming of scene changes involving complex groups with multiple drives. It also offers an effects engine for dynamic 3D changes and guarantees a 3D view of the drives, though a further possibility is a 2D display that can be rotated or zoomed to provide a more detailed view. The user therefore has an overview over the entire rig with direct access to parameters and details. Complex target* and group* runs even in the case of possible interactions can be programmed and recalled (*depending upon the hoist/drive configuration).

System parameters and numerous settings are sto-

red on a vibration-proof SSD. Logbook data from the internal 'black box' can be displayed and exported. Project files can be exported and imported to and from servers and exchangeable mediums (USB sticks). The I-Motion software also runs on an external PC in offline mode.

Because of its feature set, the Basic-C controller is very well suited to variable-speed drives. Naturally up to twenty-four D8, D8 Plus and C1 drives can also be controlled and supervised in mixed operation at fixed or variable speeds.

The „little“ brother of the SIL3-certified EXPERT-T II controller is designed for 24 drives. The I-Motion Basic-C show controller is especially recommended in combination with the MPC I-series and V-Motion controllers for smaller to medium-sized kinetic BGV C1 and SIL 3 production demands in which controlled vario drives in combination with a dynamic control lever for the operation of the show are desired. It is system- and software-compatible with the I-Motion Expert-T controllers and can be used as a backup system.

Technical features:

- 12" 4C-LCD touchscreen, backlit
- dynamic control lever with dead-man function
- high-resolution rotary encoder with button function
- keypad for direct input
- E-Stop button, function-illuminated
- user ID chip card reader
- key switch for central start-up with bypass function
- SSD storage medium
- Internal UPS (3 minutes)
- 2 I-Motion-Net output sockets
- 3 USB ports for add. mouse/M-stick etc.
- VGA output, SUB-D for second monitor
- IEC socket with main switch and mains filter
- robust metal housing in desk format with hand rest



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FEATURES:

- standard configuration conforms to EN 60204-1 and -32, EN 13849-1 and EN 61508 SIL 3
- safety processor with RISC architecture
- 32-bit high-performance bus system
- 2-channel safety computer according to SIL 3
- power-saving CPU technology
- operating states stored in non-volatile RAMs
- self-test of all relevant functions prior to system release
- simple, intuitive operation by means of a 12" touchscreen in combination with direct input via a function keyboard as well as a dynamic control lever with dead-man function and high-resolution rotary button encoder (speed ratio)
- 12" 4C-LCD touchscreen, backlit
- group-transcending error supervision when connected in a network
- supervision and display of the operating states* of the hoists/drives such as run direction, speed, position, operating and emergency limit, excess temperature, brake gap monitoring, dynamic load analysis as well as load and run groups.
- user ID chip card with level structure

Technical data:

- 110 - 240 V / 50 - 60 Hz power supply
- Dimensions: 480 x 400 x 190 mm (width x depth x height) without plug-in connectors
- Weight: 12,5 kg
- BGV D8, C1, igvw SQ P2 D8 Plus and EN 61508 SIL 3 conformity

Software:

- operating system: Win XP Pro
- software: Movecat I-Motion
- management of 24 drives in combination with network power controllers such as V-Motion and MPC I-series with IP address (standard configuration 24 drives, software-expandable to 60 drives)
- 2D/3D representation switchable, zoomable
- unlimited number of shows and scene changes/cues
- expanded operating/display level on a second monitor (VGA Out)
- speed way points for fixed profile
- profile and snapshot recorder
- input of software operating limit positions
- management of open and closed drive groups
- way- and time-synchronous group runs*,
- group-synchronous run (central up and down movement of preselected hoists/axes) with several run groups programmable
- object generator, simple programming of complex changes with multiple drives and connected loads
- programming and loading of complex sequences
- acceleration and braking of drives, groups and cues
- supervision of the run direction and target speeds and complementary overload ascertainment through analysis of the rated speed when encoder-operated
- set-up possibility for underload*/overload* definition
- driver's log function, allows display and export
- import/export of show files on server and USB memory stick
- offline operation

*The functions indicated depend upon the actual hoist/drive configuration

Options / Accessories:

- Basic-C FC flight case
- keyboard with trackball
- additional monitors
- MPC I-V-Motion Power Controller
- I-Motion NMB-14, Network Master Box
- I-Motion NDB-6, Network Distribution Box
- I-Motion NBB, Network Booster Box