

MOVECAT I-Motion Basic Show Controller

compliant with BGV D8 and C1, as well as igvw SQ P2 D8 Plus and EN 61508 SIL 1* to SIL 3* (*depending upon configuration)



The I-Motion Basic controller constitutes a compact System Controller for the systemic control of kinetic drives in mobile and flexible project applications.

Developed for applications with up to 60 drives, it allows the control and supervision of any application in connection with D8, D8 Plus and C1 drives even in any desired mixed operation at fixed or variable speeds. Depending upon the drives

and controllers used, entire systems can be realized in accordance with EN 61508 from SIL 1 to SIL 3. The option exists of integrating already existing drives and other stage machinery. The controller corresponds in its basic configuration to BGV D8 and BGV C1, for installation work it can optionally be upgraded for applications up to SIL 3 and therefore for overhead scenic runs. The Basic controller controls and

supervises by I-Motion network the Movecat MPC and V-Motion Power Controllers and forms with them a closed safety network. An error in one unit is analysed centrally, represented visually and leads depending upon the system configuration to the immediate shutting down of a hoist/drive, the group to which it belongs or even the entire system.

The safe and intuitive entry of key operating and run parameters is facilitated by a user-optimized input keyboard with tactile feedback and a high-resolution rotary encoder with a button function. A large, 12" backlit 4C LCD touchscreen provides further input and takes over the visual display of the operating, input and system parameters in 2D or 3D according to choice. The user therefore has an overview of the rig and instant access to parameters and details. Complex target* and group* runs even in the case of possible interactions can be programmed and executed. (*depending upon the drive configuration)

The Basic controller is system- and software-compatible with the I-Motion Expert controllers and can be used

as a backup system. For the immediate triggering of kinetic run activities, a GO button and a rotary/push-button encoder are available for the recall and execution of scene changes and shows as well as adjustment of their speeds. An integrated SSD disk drive as storage medium allows the saving of all system parameters and numerous shows (the actual number depends upon the size of the hard disk). The data can be exported and stored externally. The I-Motion Basic Show Controller is recommended in combination with the MPC and V-Motion Power Controllers for professional kinetic applications in the rigging, trade fair, events, studio and touring sectors.

Technical equipment:

- 12" 4C-LCD touchscreen, backlit
- Keypad for direct input
- E-Stop button, function-illuminated
- Key switch for central start-up with bypass function
- High-resolution rotary encoder with button function
- GO button (Start) backlit
- SSD disk drive
- Internal UPS (3 minutes) with network filter
- 2 I-Motion-Net output sockets
- 3 USB ports for add. mouse/M-stick etc.
- Robust 19"/6U metal housing with two handles



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FEATURES:

- Standard configuration according to BGV C1, EN 60204-1 and -32, EN 13849-1 and EN 61508
- Safety processor with risk structure
- 32-bit high-performance bus system
- Optional dual-channel safety computer in conformity with SIL 3
- Power-saving CPU technology
- Operating states are stored in non-volatile RAMs
- Self-testing of relevant functions prior to system enabling
- Simple intuitive operation using a 12" touchscreen and direct input via a function keyboard as well as a high-resolution rotary encoder with keying function
- 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.

Technical data:

- 230 V/50 Hz electricity supply
- Dimensions: 19"/6U,
- 483 x 265 x 220 mm (Width x Height x Depth) without plug-in connector
- Weight 8.5 kg
- BGV D8, BGV C1, igvw SQ P2 D8 Plus and EN 61508 conformity (up to SIL 3 oft. depending upon configuration)

Software:

- Operating system: Win XP Pro
- Software: Movecat I-Motion
- Management of up to 60 drives or network controllers 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
- Speed way points for fixed profile
- Profile and snapshot recorder
- Input of software operating limit positions
- Management of free and closed drive groups
- Path- and time-synchronous group run*
- Group-synchronous run (central up/down movement of previously selected hoists/axes) programmable with multiple run groups
- Object generator, simple programming of complex scene changes with multiple drives and inter-connected loads
- Programming and execution of complex, successive show 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
- Off-line operation

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

Options / Accessories:

- Pull-out 19" keyboard with trackball
- MPC I-Motion Power Controller series
- V-Motion Motion Power Controller
- I-Motion NDB-6/12, Network Distribution Box
- I-Motion NMB-14, Network Master Box
- I-Motion NBB, Network Booster Box