



I-MOTION BASIC Showcontroller

Compliant with BGV D8 and C1, as well as D8 Plus / igwv SQ P2 and SIL 1* to SIL 3* / EN 61508 (*depending upon equipment)

The I-Motion Basic Show Controller represents a compact system controller for the systemic control of kinetic drives for mobile and flexible project applications. Developed for the use of up to 72 drives, it is capable of controlling and supervising any application involving D8, D8 Plus and C1 drives, whether fixed- or variable-speed, as well as supporting mixed operation of all kinds. With it, depending upon the drive and controller specifications, entire systems can be realized compliant with SIL 1 up to SIL 3. As a further option, the possibility exists of integrating existing drives and other stage machinery.

In its basic configuration, the controller complies with the BGV D8 and BGV C1 standards, but as an option it can be upgraded for applications up to SIL 3 / EN 61508 and therefore for the movement of loads over people.

The Basic Show Controller controls and supervises via I-Motion network the Movecat MPC and

V-Motion Power Controllers, forming with them a closed safety network. Any failure in one unit is centrally evaluated and visualized, leading (depending upon the system configuration) to the fail-safe shutting down of a hoist/drive, the group to which it belongs or even the entire system.

It is possible to enter all essential operating and run parameters intuitively, efficiently and safely using an application-optimized input keyboard with tactile feedback and a high-resolution rotary encoder with keying function. A twelve-inch backlit 4C-LCD touchscreen serves as an additional input device and takes over the visual display of all operating, input and system parameters in a choice of two or three dimensions. The user therefore has at all times an overview of the entire system as well as immediate access to all parameters and details. Target* and group* runs (allowing even for the possibility of interaction) are both programmable and retrievable (*depending upon the hoist/drive equipment).

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

For the direct recall of kinetic run activities, a GO button and a rotary key encoder are available for the implementation and recall of transformations and performances as well as speed adjustments. An integrated hard disk serves as a storage medium permitting all system parameters and numerous performances (the exact number depending upon the size of the hard disk) to be saved. Data can also be exported and stored externally.

The I-Motion Basic Show Controller is especially recommended in combination with the MPC and V-Motion Power Controllers for professional kinetic applications in the rigging, trade fair, events, studio and tour sectors.

FEATURES

- Standard configuration conforms to BGV C1, EN 60204-1, EN 60204-32, EN 13849-1 and EN 61508
- Safety processor with risk structure
- 32-bit high-performance buss system
- Optional dual-channel safety computer in conformity with SIL 3 / EN 61508
- Current-saving CPU technology
- Operating states stored in non-volatile RAMs
- Self-testing of all relevant systems 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 for data input
- 12" backlit 4C-LCD touchscreen
- Group-transcending error supervision when connected in a I-MOTION network
- Supervision and display of all operating state errors* of the hoists/drives such as operating voltage- and -phase relationship* motor-protection switch*, run direction- and main-protections on "stick" and correct run direction, load and run group, position, operating- and emergency off, overheating, brake gap control as well as dynamic load evaluation

Software

- Operating system: Win XP
- Application: Movecat I-Motion
- Management of up to 72 drives or network controllers with IP address (standard configuration 24 drives, expandable on the software side up to 72 drives)
- Zoomable display switchable between 2D and 3D mode
- Unlimited number of performances and transformations/cues
- Expanded operating-/display-level on second monitor (XGA 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*, permitted tolerance of the individual hoists/axes and groups programmable
- "Group-synchronous" run (central up or down movement of pre-selected drives/axes) with several run groups programmable
- Object-generator, simple programming of complex transformations with several drives having connected loads

- Programming and retrieval of complex, back-to-back program sequences
- Acceleration and braking of drives, groups and cues
- Monitoring of run direction and scheduled speeds and complementary overload determination by evaluation of nominal speed with encoder operation
- Set-up possibility for under-* and *overload definition*
- Log book function, can be displayed and exported
- Import/export of performance files on server and USB memory stick
- Offline operation
- *these functions depend upon the equipment of the hoist/drive in question

Hardware

- 12" backlit 4C LCD touchscreen
- Key block for direct input
- E-Stop key, function-illuminated
- Key switch for central starting-up incl. bypass function
- High-resolution rotary encoder with keying function
- Backlit GO button (Start)

- Hard-disk with shock-absorbent suspension and self-locking park position
- Robust 19" 6U metal housing with two carrying handles

Technical specifications

- 230 V / 50 Hz power supply
- 1 I-Motion-Net output socket
- 2 USB ports for additional mouse/M-stick etc.
- XGA output, SUB-D for second monitor
- Dimensions: 19", 5U, 483 x 265 x 220 mm (W x H x D) without plug-in connector
- Weight: 8 kg
- CE, BGV D8, C1 and D8 Plus / igwv SQ P2 conformity (up to SIL 3 optional depending upon equipment)

Options / Accessories

- Pull-out 19" keyboard with trackball
- Various TFT ancillary monitors
- MPC I-Motion Power Controller series
- V-MOTION Motion Power Controller
- I-MOTION NDB-6/12, Network Distribution Box
- I-MOTION NBB, Network Booster Box