



elevation 24 offers unparalleled levels of functionality and connectivity in a 24 channel positioning chain hoist controller. Universal output connections allow easy interfacing with power distribution such as the **elevation POWER 8** and flexible encoder connections permit both pulse and incremental encoders to be used with the system.

A wide range of control methods ensure that interfacing to external control systems is incredibly straightforward. As well as Ethernet and RS485 connections to kinesys control software and handsets the **elevation 24** will also accept DMX to allow it to be triggered in conjunction with other aspects of complex shows. Safety is ensured by the use of 'dead man's handles' that must be pressed and held during the entire execution of remotely triggered moves.

A full menu system allows the **elevation 24** to be used as a stand-alone intelligent controller, with cues programmed, stored and replayed directly from the front panel. The **elevation 24** can record cues sent from an attached computer allowing very rapid programming. Cues can also be created offline if required.

Load cells - such as the kinesys Libra range - can be monitored by the **elevation 24** via a dedicated communications network to add another aspect to the safety monitoring system, which allows groups of hoists to be shut down if an overload or encoder fault is detected.

features

- 24-channel fixed-speed chain hoist controller with positioning capability
- manual controls for local operation of hoists with or without encoders
- high-quality tactile switches and bright graphical LCD display
- intuitive menu system for rapid hoist setup and cue programming
- operation possible with or without an attached PC
- fully compatible with kinesys **K2** and **vector** control software
- external control inputs include kinesys protocol (Ethernet and RS485) and DMX
- group halt functions allow safe shutdown of hoists should a fault or overload condition be detected
- both pulse and incremental encoders accepted (including high resolution encoders used by Elevation 1+ converted hoists)
- universal encoder inputs for connection to both 4 and 6 pin XLR encoder cables via appropriate fan-in adapters
- relay outputs for connection to all existing motor controllers including kinesys **elevation POWER 8**
- RS485 load cell monitoring compatible with kinesys Libra load cells allows user-settable overload limits
- compatible with category 3/4 emergency stop controllers including kinesys **arrayes**
- universal mains input voltage for use worldwide without adjustment
- Compact 3U 19" footprint

specifications**CONTROLS:**

emergency stop switch
3-position toggle switches for manual up - off - down operation
mode select switch to select off, auto and manual operation
large, positive-action GO button
graphical LCD display
6 select buttons adjacent to display
jog dial with push selection for rapid parameter editing

INDICATORS:

power, system status and activity LEDs
bicolour direction LEDs for each channel
status LED for each channel

HOIST CONTROL CONNECTION: Volt-free relay contacts rated 0.5A 24V maximum
AMP CPC2 28-pin connector for each 8 hoists

ENCODER INPUTS:

26-pin MIL-C-26482 style threaded connector for each 4 encoders
universal encoder input accepts pulse (Skjonberg-type) and quadrature encoders with line driver, push-pull or open-collector outputs

LOAD CELL INPUTS:

3 x 4-pin XLR connectors for connection to Kinesys Libra or D-Cell type RS485 load cells

CONTROL INPUTS:

remote GO input and link output

DATA CONNECTIONS:

10/100-baseT Ethernet for connection to **vector** and other kinesys controllers - Ethercon connector
RS485 control compatible with kinesys **elevation RIGGER** controllers (male XLR7 connector)
5-pin XLR input and through output for DMX-512 control

EMERGENCY STOP:

16-pin CPC emergency stop input and link out connectors allow up to category 4 emergency stop facilities when used with kinesys **array** products
optional integral e-stop controller allows category 3 or 4 safety in a stand-alone unit

POWER SUPPLY:

90-260V 50-60Hz universal input

MAINS CONNECTION:

Neutrik Powercon

ENCLOSURE:

2 / 1.6mm steel; front panel RAL5011 stove enamelled and silk screened; chassis zinc plated and passivated

ENVIRONMENTAL:

IP40

OPERATING TEMPERATURE: 0 - 55°C (32 - 131 F)

DIMENSIONS:

19" format 3U high x 300mm (11.8") deep
overall width: 483mm (19")
overall height 132mm (5.2")
overall depth 380mm (15") including handles and connectors

WEIGHT:

14kg (31lb)