ETC®

Element® Control Desk

Eos® Series

100V 115/120V 230/240V

GENERAL INFORMATION

Designed for venues using primarily conventional lighting, the Element control console provides the powerful features of the Eos system in an economical and simplified package. In addition to keypad commands, True LTP Channel Faders provide hands-on control of intensity and can be used to set manual levels and edit recorded cues and submasters. On Demand Moving Light Controls are available to facilitate using conventional accessories like moving mirror heads, color scrollers or gobo rotators, or to make controlling small numbers of moving lights simple and direct. Element can be backed up by another Element, ETCnomad or ETCnomad Puck mini-computer with 1,024 or more outputs

FEATURES

- 1,024 Outputs
- 250 or 500 Channels
- 40 or 60 Fader versions, pageable as channel or submaster control
- Master Playback pair with 60mm faders, GO, STOP/BACK
- Intensity, Focus, Colour and Beam Palettes
- Stepped, Relative and Absolute Effects
- 99 users
- Partitioned control
- Six Colour Pickers and Gel Picker for LED, CMY colour mixing
- Net3/ACN, ETCNet2, Art-Net and Avab UDP output protocols
- Show import via ASCII from Obsession, Express, Expression, Emphasis, Congo, Cobalt, Safari and Strand 300/500 Series
- Distributed DMX, MIDI, SMPTE and contact closure via Net3 Gateways
- OSC Transmit/Receive
- UDP Transmit/Receive
- Support for multiple languages, including English, German, Spanish, French, Italian, Japanese, Korean, Russian and Chinese (Simplified and traditional)

ORDERING INFORMATION

Element Control Desks

PART NO.	DESCRIPTION
4330A1120	Element Control Desk, 40 Faders, 250 channels (Upgrade to 500 channels possible)
4330A1130	Element Control Desk, 60 Faders, 250 channels (Upgrade to 500 channels possible)
4330A1019	Element Upgrade Kit 250 ch

*ETCNet2 or Net3 are distributed using Net3 Gateways, which provide DMX, MIDI/SMPTE Time Code and switch-closure functionality. MIDI In/Out and switch closure are also available locally at the console. Two universes of DMX512-A output are available at the console via 5-pin XLR. RDM is supported from Net3 Gateways.

Element Accessories

PART NO.	DESCRIPTION
4250A1130	Net3 Remote Video Interface 3 19" 2U
M8200-F	27"10-point Multi-touch Screen 1920x1080 res.
M8199-F	23"10-point Multi-touch Screen 1920x1080 res.
M240	22" Multi-touch Screen 1920x1080 res.
RT202	LED Littlite 18", angled
PSR1061	Element/Congo Kid Flight case, Navy Blue

Shipping Note: Element ships with dust cover, mouse and mousepad. An on-screen keyboard is provided in the software for labeling show data

SPECIFICATIONS

SYSTEM CAPACITY

- 1,024 Outputs/Parameters
- 250 or 500 Channels
- 10,000 Cues
- One Cue List
- 4 x 1000 Palettes (Intensity, Focus, Colour, Beam)
- 1000 Presets
- 1,000 Groups
- 1,000 Effects (relative, absolute or step)
- 99,999 Macros
- Supports two external DVI monitors or one Display Port monitor at minimum 1280x1024 resolution, with optional touchscreen and multi-touch screen control
- Solid State (SSD) hard Disk
- USB ports for flash drives, pointing devices, keyboards

DISPLAY FUNCTIONS

- All show data may be viewed on one or two external monitors. Views may be expanded across both from easily accessed front panel controls. Three user-configurable workspaces per display, with split screen/sizing controls
- The Central Information Area accesses:
  - Browser
  - File Management
  - System Setup
  - Network Configuration
  - Show Data Utilities
  - Printing
  - Record Target Lists
  - Patch functions
  - Help
  - Hue and Saturation Colour Picker
  - On Demand Moving Light Controls
  - Electronic alpha keyboard
  - Command Line
  - Selected Cue
  - Error messages and advisories
- Channel Displays
  - Live channel summary or table view
  - Blind cue, palette and submaster views, in list, channel, table and spreadsheet formats
  - Flexi-channel to determine which channels to display
  - Zoom allows user to define how many channels are viewed
  - Color coded intensity levels indicate direction of move
  - Color coded non-intensity levels indicate change from previous state
  - Graphic differentiation of moving lights, single parameter devices, unpatched channels and deleted channel
- Magic sheets
  - User-definable interactive display layouts
  - Images and symbols may be imported

SPECIFICATIONS

- Patch Views
  - Patch by channel
  - Patch by address
  - Patch by Device List (RDM)
  - Assign proportional patch value, curve, preheat value for intensity
  - Swap pan and tilt
  - Invert pan and tilt
  - Custom fixture editor
- Playback Status Display
  - Graphic representation of cue list status, past and future cues
- Cue List Index
- Effect Editor
- Group Editor
- Park Display
- Fader Display
  - Isolates display to active output by fader contribution
- Dimmer Monitoring

PLAYBACK CONTROLS

- Master Playback crossfade pair with two 60mm potentiometers, Go, Stop/Back and Load buttons
- Grand Master with Blackout
- Playback fader controls include:
  - Timing Disable
  - Off
  - Release
  - Manual Override
  - Rate
- A maximum of 300 submasters (additive or inhibitive) via integral faders

MOVING LIGHT CONTROLS

- On-demand Moving Light controls include labeling and current parameter value on connected display monitor
- Flip and Home functions
- Parameters selectable on screen for mouse-based control or command line actions

MACROS

- May be set to play background or foreground
- Startup and shutdown macros

SPECIFICATIONS

MANUAL CONTROL

- Channel selection from keypad
- Lists constructed with +, -, thru
- Intensity set with level wheel, keypad, "full" and "out"
- True LTP channel faders for direct hands-on intensity control
- Ordered groups
- Offset, including even, odd, random, reverse
- Sneak
- Remainder Dim and restore
- Home by parameter, parameter category or all non-intensity parameters
- Park at level
- Scaled park for temporary percentage adjustment
- 'Recall' from and 'Copy to' commands
- 'About' provides detailed view of selected channels or record targets
- Undo manual control, record, update and delete operations
- Lamp controls to strike, douse, calibrate fixtures

PROGRAMMING FEATURES

- Channel Functions
  - Non Intensity parameters set via numeric entry or On Demand Moving Light Controls
  - Colour matching to gel selector or Hue/Saturation colour picker
- Palette Functions
  - Record and Update functions
  - Toggle display to absolute data
  - Up to 99 decimal values may be inserted between any two whole numbers
  - Selective store to refine contents of record targets
- Effects
  - Create live or blind
  - Pattern based relative dynamic effects
  - Absolute effects
  - Step effects
  - Cycle time, trail and grouping determine channel distribution and behavior when moving through effect
  - Duration of infinite, a specific amount of time or number of passes through pattern
  - Effect attributes to modify basic behavior
  - Channel Level overrides
  - Cue Level overrides
  - Entry mode determines how parameters enter effects
  - Exit mode determines how parameters depart effects
- Cue Recording
  - Record tracking or cue-only
  - Auto-playback recorded cues

SPECIFICATIONS

  - Auto-mark
  - Block at cue or parameter level
  - Follow and hang times
  - Out of sequence link
  - Loop functions
  - Preheat enable
  - Twenty part multi-part cues with default part assignment
  - Cue level rate override
  - Up to 99 decimal cues between each two whole numbered cues
  - Execute List
    - Triggers macros with delay
    - Show control triggers
    - Analog triggers
  - Update and Update Trace functions
  - Undo record and delete
- Submasters
  - Additive, inhibitive or effect submasters
  - Bump button timing to fade up, dwell and fade out
  - Exclusive and Shielded modes
  - Faders as progress controller or intensity master
  - Bump button to mark NPs
  - Independent status
- Curves
  - Assignable in patch to modify dimmer output ramp
  - Assignable at cue or cue part level to modify intensity crossfade profle or non-intensity parameter ramping

INTERFACES

- 2 DMX512-A/RDM Ports
- Ethernet (Net3, ETCNet2, Art-Net and Avab UDP output protocols)
- Contact Closure triggers via D-Sub connector
- Two DVI video connectors support two external DVI displays (1280x1024) with optional touch- or multi-touch control
- One Display Port connector
- Seven USB Multi-purpose ports
- Phone Remote (Dect)
- Net 3 Radio Focus Remote (RFR)
- MIDI In/Out (Timecode, Show Control)
- Additional MIDI/SMPTE Timecode and Show Control through Net3 Gateway
- Additional contact closure (12 analog inputs, 12 SPDT contact outputs and RS-232) through Net3 Gateway

ELECTRICAL

- Power input (100-240V at 50/60 Hz)
- 1.0A at 230/240V maximum power consumption

PHYSICAL

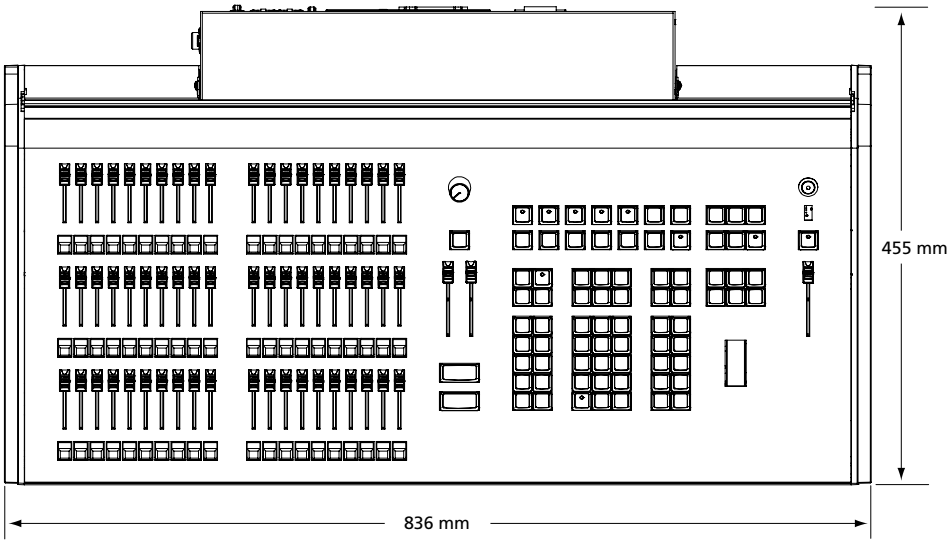
Element Console Dimensions*

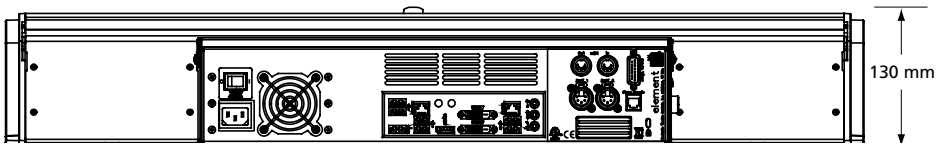
MODEL	HEIGHT	WIDTH	DEPTH
	mm	mm	mm
Element 40	130	836	455
Element 60	130	836	455

Element Console Weights*

MODEL	WEIGHT	SHIPPING WEIGHT
	Kg	Kg
Element 40	13.6	17.0
Element 60	13.7	17.0

*Weights and dimensions typical





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