



GENERAL INFORMATION

Designed for venues using primarily conventional lighting, the Element 2 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. Moving Light Controls are available to facilitate the use of conventional accessories like moving mirror heads, color scrollers or gobo rotators, or to make controlling small numbers of moving lights simple and direct. Element 2 can be backed up by another Element 2, ETCnomad 6144 or ETCnomad Puck 6144 mini-computer.

FEATURES

- 1,024 or 6,144 outputs
- 32,768 control channels (any number from 1 - 99,999)
- Up to 99 discrete users
- Partitioned control
- Master playback pair with 100mm faders
- 40 45mm faders x 100 pages for configurable faders, for channel, submaster and palette/preset, timing and effect master playback control
- User-definable direct selects
- Four discrete palette types (IFCB)
- Presets function as "all palette"
- Effects provide dynamic relational and absolute progressive behavior
- Central information area (CIA) accesses the browser and other controls
- Configurable high-density channel display, with format and flexi-channel modes
- Up to six abstract colour spaces, tinting, spectrum and fade path tools.
- User configurable, interactive Magic Sheets
- ETCNet2 and Net3 (powered by ACN), Art-Net and Avab® UDP network output protocols
- Show import from Obsession®, Express, Expression®, Emphasis®, Congo®, Cobalt®, Grand MA1, Grand MA2, Safari and Strand 500/300 Series
- Two individually configurable Ethernet ports
- Multiple MIDI and/or SMPTE TimeCode Inputs, Analog/Serial Inputs, OSC transmit/recieve
- Virtual Media Server function for pixel mapped effects, images, animations
- Support for multiple languages, including English, German, Spanish, French, Italian, Japanese, Korean, Russian and Chinese (Simplified and Traditional)

ORDERING INFORMATION

Element 2

PART NO.	DESCRIPTION
4331A1011-EU	Element 2 console, 1,024 outputs
4331A0061	Element 2 Initial upgrade to 6,144 outputs
4331A0060	Element 2 After-sale upgrade to 6,144 outputs
4280A1011	ETCnomad 512 (as client for Mac/PC)

Output protocols are distributed using ETCNet2 DMX Nodes or Net3 DMX/RDM Gateways. I/O Gateways and Show Control Gateways provide switch closure functionality, MIDI and SMPTE TimeCode.

Element 2 Accessories

PART NO.	DESCRIPTION
4250A1130-EU	Net3 Remote Video Interface 3
4250A1122	ETCpad - Portable Access Device
M8200-F	27" 10-Point Multi-touch Screen, 1920x1080
M8199-F	23" 10-Point Multi-touch Screen, 1920x1080
M240	22" Multi-touch Screen 1280x1024
4331A4006	Element 2 Dust Cover (replacement)
PSR1079	Element 2 Pelicase-style Flightcase

Eos Family Offline Editor software for Mac and PC platforms is called ETCnomad and is available for download from www.etconnect.com

Element 2 requires Windows 7 compatible external monitors, 1280x1024 minimum resolution, standard, touch or multi-touch

SHIPS WITH:

- Dust cover
- One Littlite
- Mouse and mousepad
- Two active display-port to DVI adapters
- Locking IEC to UK13A and NF/Schuko power cords

NOTE: External backlit keyboards available in US English, German, Spanish, French, Scandinavian and Russian versions.



SPECIFICATIONS

SYSTEM CAPACITY

- 1,024 or 6,144 Outputs
- 32,768 Control Channels (devices)
- 10,000 Cues
- One Cue List
- 999 Submasters
- 100 Fader Pages
- 4 x 1,000 Palettes (Intensity, Focus, Colour, Beam)
- 1,000 Presets (all palette)
- 1,000 Groups
- 1,000 Effects (relative, absolute or step)
- 99,999 Macros
- 1,000 Snapshots
- 1,000 Curves
- 1,000 Colour Paths
- Supports two external display-port monitors at 1280x1024 minimum resolution, with optional touch or multi-touch control
- Solid-state hard drive
- Five USB ports for flashdrives, pointing devices, keyboards

DISPLAY FUNCTIONS

- All show data may be viewed on a single external monitor. External views may be posted separately or expanded across a maximum of two monitors. Three user-configurable workspaces per display, with split-screen/sizing controls.
- The Central Information Area accesses:
 - Browser
 - File Management
 - System Defaults
 - Show Defaults
 - Desk Defaults
 - Partition Definitions
 - Network Configuration
 - Show Data Utilities
 - Print to PDF
 - Record Target Lists
 - Patch functions
 - Help
 - Electronic alpha-numeric keyboard
 - Command Line
 - Selected Cue
 - Error messages
 - Context-Sensitive Control
 - Parameter Categories and individual parameters
 - Filters
- Channel Displays
 - Live channel or table view
 - Blind cue, palette, preset and group views, in list, channel, table and spreadsheet formats
 - User-configurable to show required parameters and/or parameter categories (IFCB)
 - 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

SPECIFICATIONS

- Colour-coded non-intensity levels indicate change from previous state
- Graphic differentiation of moving lights, single parameter devices and unpatched channels
- Magic Sheets
 - User-defined interactive display layouts
 - Objects and images may be imported
- Patch Views
 - Patch by channel
 - Patch by address
 - Patch by Device List (RDM)
 - Assign proportional patch value, curve and, preheat value for intensity
 - Swap pan and tilt
 - Invert pan and tilt
 - Custom fixture editor
 - User configurable shutter order
- Playback Status Display
 - Accesses status of 100 fader pages
 - Expanded cue list for selected cue, optional dynamic countdown of active cues
- Cue List Index
- Effect Editor
- Group Editor
- Park Display
- Dimmer Monitoring
- Submaster List
- Fader Config Display

PLAYBACK CONTROLS

- Master Playback crossfade pair with two 100mm potentiometers, Go and Stop/Back
- 100 pages of 20 45mm faders, each configurable as:
 - IFCB Palette/Preset Lists or single instances
 - Configurable Grand Master with Blackout
 - Additive or Inhibitive Submaster, with user-configurable button/slider behavior
 - Channel faders
 - Filtered Manual Timing Master
- Rate Controller
- Playback fader controls include:
 - Load to assign content
 - Timing Disable
 - Release
 - Freeze
 - Manual Override
 - Rate
 - Background Enable/Disable
 - 10 Priority States
 - 10 Background Priority States
 - Parameter and channel filters
- Macros
 - May be set to play background or foreground
 - Startup and Shutdown Macros
 - Disconnect Macros

SPECIFICATIONS

MANUAL CONTROL

- Channel selection from keypad and/or multi-touch direct selects
- Lists constructed with +, -, thru
- Intensity set with level wheel, keypad, level button, full and out
- Select Last recalls last sequential channel selection set
- Select Manual selects all channels with manual values
- Select Active selects all channels with intensity above zero
- Ordered groups
- Offset; including even, odd, random and reverse
- Fan
- Sneak
- User-definable home
- Home by parameter, parameter category or all non-intensity parameters
- Capture
- 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
- Highlight and Lowlight, with optional user-definable Rem Dim
- Lamp controls to strike and douse arc sources, calibrate devices

PROGRAMMING FEATURES

- Channel Functions
 - Non-intensity parameters set via numeric entry or pageable encoders
 - Encoders support software-controlled tactile response
 - Local display of color and gobo images
 - Color matching to gel selector
 - Color Path, color tinting and color spectrum tools.
 - Apply discrete time and delay per channel parameter
- Palette and Preset Functions
 - Record and Update
 - Toggle display to absolute data
 - Up to 999 decimal values may be inserted between any two whole numbers
- Effects
 - Create live or blind
 - Pattern-based relative dynamic effects
 - Absolute effects
 - Step effects
 - Channel level overrides
 - Cue level overrides
 - Entry mode determines how parameters enter effects
 - Exit mode determines how parameters depart effects
- Cue Recording
 - Cue List HTP/LTP Intensity
 - Cue List Priority and Background Priority
 - Fader as progress controller, manual or intensity master
 - Record manual values or channels in use
 - Auto playback of recorded cues
 - Auto-mark instructions
 - Block at cue or parameter level

SPECIFICATIONS

- Follow or hang times
- Out of sequence link
- Loop functions
- Cue level parameter category timing
- 20-part multi-part cues
- Cue-level rate override
- Up to 999 decimal cues between each two whole-numbered cues
- Execute List
 - Triggers snapshot
 - Triggers macros
 - Show-control triggers
 - Analog triggers
- Update and Update Trace functions
- Undo record and delete
- Submaster Recording and Playback
 - 999 additive or inhibitive submasters
 - Bump button timing for fade up/dwell/fade out
 - Exclusive or Shielded Mode
 - Background enable/disable
 - Restore to background or minimum value
 - LTP/HTP intensity
 - Fader as progress controller or intensity master
 - Priority and Background Priority status
- Curves
 - Assignable in patch to modify dimmer output ramp
 - Assignable at cue or cue part level to modify intensity crossfade profile or non-intensity parameter ramping

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 or touchscreen control or command-line actions

INTERFACES

- Two individually configurable ethernet ports
- ETCNet2, Net3 (powered by ACN), ArtNet and Avab UDP output protocols
- Four DMX/RDM ports
- Contact-closure triggers via D-Sub connector
- Two video connectors support display-port external displays (1280x1024) with optional single-touch or multi-touch screen control
- USB multipurpose (five ports)
- OSC Transmit/Receive
- UDP Transmit/Receive
- MIDI TimeCode, MIDI Show Control through Gateway
- SMPTE TimeCode through Gateway
- Contact closure (12 analog inputs, 12 SPDT contact outputs, RS-232) through Gateway

ELECTRICAL

- AC input (100 - 240V at 50/60 Hz)
- Power consumption (less external monitors) approximately 1 amp at 230/240V

PHYSICAL

Element 2 Dimensions*

MODEL	HEIGHT	WIDTH	DEPTH
	mm	mm	mm
Element 2	111	868	362
Element 2 in shipping container	241	1,022	495
Element 2 in roadcase	212	1,146	464

Element 2 Weights*

MODEL	WEIGHT
	kg
Element 2 console	7.3
Element 2 in shipping container	9.3
Element 2 in roadcase	18.9

*Weight and dimensions typical

