ETL us · c ETL · CE · **100V 115/120V 230/240V**

GENERAL INFORMATION

Fully integrated control of LEDs, conventional and moving lights in a compact, portable package. Up to four control devices, each with its own workspace, can be used for programming and playback. Synchronized backup is also optional. With Universal Fader Wings, multiple cue lists and up to 300 submasters are available.

APPLICATIONS
- Theatre
- Television Studios
- Houses of Worship
- Corporate Theatre
- Exhibits
- Special Events
- Touring

FEATURES
- 1024, 1536, 2048, 2560 or 3072 outputs
- 10,000 channels
- 4 Discrete Users
- Master playback pair with 60mm faders
- Four discrete palette types (IFCB)
- Presets function as "all palette"
- Effects provide dynamic relational or absolute progressive action
- Central information area (CIA) accesses electronic alpha keyboard, Hue + Saturation color picker, gel picker, browser and other controls
- Configurable high-density channel display, with format and flexi-channel modes
- User configurable topographical channel views
- List views of all record targets
- Mouseless navigation of displays
- ETCNet2, Net3, Artnet and Avab UDP network protocols
- Show Import via ASCII from Obsession, Expression, Emphasis, Strand 300/500
- In/Out: local DMX512 x 2, MIDI In/Out, Networking DMX, MIDI, SMPTE, SERIAL and contact closure via Net3 Gateways

ORDERING INFORMATION

Ion

MODEL	DESCRIPTION
Ion 1000	Ion Console, 1024 outputs
Ion 1500	Ion Console, 1536 outputs
Ion 2000	Ion Console, 2048 outputs
Ion 2500	Ion Console, 2560 outputs
Ion 3000	Ion Console, 3072 outputs
Ion RPU - 2K	Ion Remote Processor Unit, 2048 outputs
Ion RPU - 3K	Ion Remote Processor Unit, 3072 outputs
Ion 500 Up	512 Output Upgrade
Eos - CSK	Eos Client Software Kit

*ETCNet2 or Net3 are distributed using Net3 gateways, which also provide switch closure functionality, MIDI and SMPTE time code.

Two universes of DMX output are available at the console via 5-pin XLR, or all universes may be distributed with ETCNet2 DMX Nodes or Net3 DMX/RDM Gateways. Network equipment must be purchased separately.

Ion Accessories

MODEL	DESCRIPTION
Net3 RFR	Net3 Radio Focus Remote
FADW 1x20	Universal Fader Wing - 1x20
FADW 2x10	Universal Fader Wing - 2x10
FADW 2x20	Universal Fader Wing - 2x20
Net3 RVI	Net3 Remote Video Interface
ETC -TS	19" LCD touchscreen (1280x1024)

Eos Offline Editor software for Mac and PC platforms is available for download from www.etcconnect.com

SPECIFICATIONS

SYSTEM CAPACITY
- 1024, 1536, 2048, 2560 or 3072 Outputs/Parameters
- 10,000 Channels
- 10,000 Cues
- 999 Cue Lists
- 4 x 1000 Palettes (Intensity, Focus, Color, Beam)
- 1000 Presets (all palette)
- 1000 Groups
- 1000 Effects (relative, absolute or step)
- 1000 Macros
- Supports two external DVI monitors or one VGA monitor at 1280x1024 resolution, with optional touchscreen control
- 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.
- The Central Information Area accesses:
  - Browser
  - File Management
  - Display Selection
  - System Defaults
  - Show Defaults
  - Desk Defaults
  - Security Functions
  - Network Configuration
  - Show Data Utilities
  - Printing
  - Record Target Lists
  - Patch functions
  - Help
  - Hue and Saturation Color Picker
  - Electronic alpha keyboard
  - Command Line
  - Selected Cue
  - Error messages
  - Parameter Categories and individual parameters
  - Filters
- Channel Displays
  - Live channel or table view
  - Blind cue, palette, preset and submaster 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
  - Color coded non-intensity levels indicate change from previous state
  - Graphic differentiation of moving lights, single parameter devices, unpatched channels and deleted channels

SPECIFICATIONS

- Patch Views
  - Patch by channel
  - Patch by address
  - 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
  - Expanded cue list for selected cue
- 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 200 playback faders and 300 submasters (additive or inhibitive) via optional fader wings
- A total of six universal fader wings can be attached

MOVING LIGHT CONTROLS
- 4 rotary encoders with toggle state, which posts selected parameter to command line
- Labeling and current parameter value in integral LCD display
- Focus, Color, Form, Image, Shutter and Custom paging controls
- Flip
- Parameters selectable by category (IFCB), sub-category (Form, Image, Shutter) or individually for command line actions, such as setting discrete timing

SPECIFICATIONS

MANUAL CONTROL
- Channel selection from keypad and/or virtual direct selects
- Lists constructed with +, -, thru
- Intensity set with level wheel, keypad, "full" and "out"
- Select Last recalls last sequential channel selection set
- Ordered groups
- Offset, including even, odd, random, reverse
- Fan
- Sneak
- Remainder Dim and restore
- 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 manual control, record, update and delete operations
- Highlight and Lowlight, with optional Rem Dim
- Lamp controls to strike, douse, calibrate fixtures

PROGRAMMING FEATURES
- Channel Functions
  - Non Intensity parameters set via numeric entry or pageable encoders
  - Color matching to gel selector or Hue/Saturation color picker
  - Apply discrete time and delay per channel parameter
- Palette and Preset Functions
  - Record, Record Only and Update functions
  - Toggle display to absolute data
  - Up to 99 decimal values may be inserted between any two whole numbers
  - Filter states to refine contents of record targets
  - 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
  - Cue Level Overrides to modify size, rate and form
  - Multi-part effects easily synchronize parameter activity
  - Entry mode determines how parameters enter effects
  - Exit mode determines how parameters depart effects
- Cue Recording
  - Cue List HTP/LTP Intensity
  - Cue List Independent
  - Cue List Assert
  - Record manual values or channels in use
  - Autoplay back recorded cues

SPECIFICATIONS

- Referenced mark instructions or auto-mark
- Block at cue or parameter level
- Assert at cue or parameter level
- Allfade flag
- Follow or hang times
- Out of sequence link
- Loop functions
- Preheat enable
- Cue level parameter category timing
- 20 part multi-part cues with default part assignment
- Cue level rate override
- Mark flags
- Up to 99 decimal cues between each two whole numbered cues
- Execute List
  - Triggers macros with delay
  - Triggers go of other cues
  - Syncs go to multiple cue lists
  - Show control triggers
  - Analog triggers
- Update and Update Trace functions
- Undo record and delete
- Submasters
  - Additive, effect or inhibitive
  - Bump button timing to fade up, dwell and fade out
  - Assert/Channel select button
  - Exclusive mode
  - 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 profile or non-intensity parameter ramping

INTERFACES
- 2 DMX-512 Ports (RDM ready)
- Ethernet (ETCNet2, Net3,Artnet and Avab UDP protocols)
- Contact Closure triggers via D-Sub connector
- DVI video connectors supports two external DVI displays (1280x1024) with optional touch screen control
- 1 - VGA connector
- USB Multi-purpose (5 ports)
- Phone Remote
- Net 3 Radio Focus Remote
- MIDI In/Out (Timecode, Show Control)
- Additional MIDI Timecode, Show Control through Gateway
- SMPTE Timecode through Gateway
- Additional contact closure (12 analog inputs, 12 SPDT contact outputs, RS-232) through Gateway

ELECTRICAL
- AC input (100-240V at 50/60 Hz)
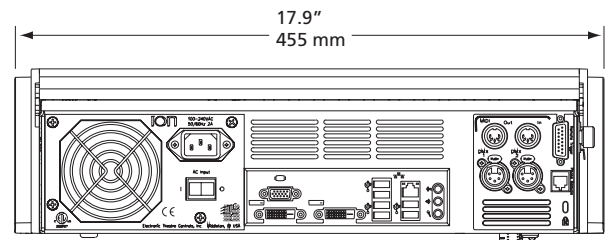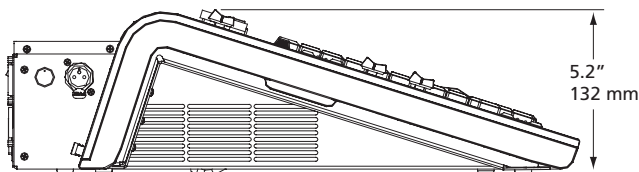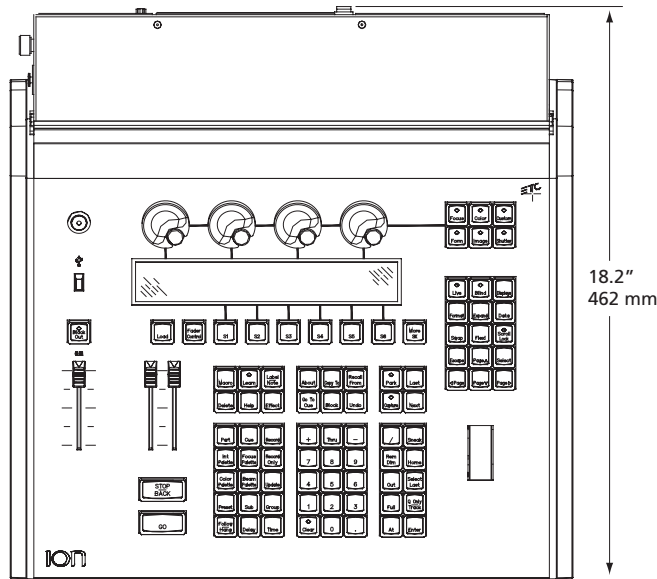- 2 amps at 120V or 1 amp at 240V maximum power consumption

PHYSICAL

Ion Dimensions*

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
Ion Console	5.2	132	17.9	455	18.2	462

Ion Weights*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
Ion Console	20.35	9.23	23.38	10.61

*Weights and dimensions typical

18.2"
462 mm

5.2"
132 mm

17.9"
455 mm