



GENERAL INFORMATION

Full-featured console for control of conventional and moving lights, media servers and LEDs with built-in articulating high-resolution multi-touch displays, backlit command keypad, 20 hands-on multipurpose masters (10 motorized faders + 10 endless backlit potentiometers), preset operation, main crossfader playback and full network capabilities, including backup and multi-console operation.

FEATURES

- 2,048 base and up to 16,384 outputs/parameters (32 universes of DMX512A)
- 5,000 control channels (nameable up to 9,999)
- Partitioned control
- Main playback crossfader pair for theatrical-style sequence with split spring-loaded rate controls
- 20 Master Playbacks consisting of 10 motorized master faders plus 10 backlit endless potentiometers; full-color displays
- Two 12.1" multi-touch LCD touchscreens for display, direct selection and context-sensitive control
- Four encoders with wheel keys
- Backlit command keypad
- High-density channel display with formats for channel sorting
- Channel layouts for topographical views of channels and other show data
- Live attributes display for spreadsheet view of devices
- List views and editors for presets, groups, palettes, sequences, chase, dynamic, content and image effects
- Integrated electronic manual and help system
- Integral alpha keyboard for labeling
- MIDI in/out
- ETCNet2™, Net3™/ACN, sACN, ArtNet Ethernet protocols
- RDM via local DMX ports and Net3 DMX/RDM Gateways
- Show import via ASCII (Avab Safari, Expert, Pronto, Presto, ETC Expression®, Express™, Strand 500)
- Support for multiple languages, including: English, German, Swedish, Polish, Spanish, French, Italian, Japanese, and Russian

ORDERING INFORMATION

Cobalt 10

MODEL	DESCRIPTION
CBLT10-US	Cobalt 10 Console, 2,048 Outputs, US Accessories
CBLT-LS-US	Cobalt Light Server, 4,096 Outputs
ETCNOMAD	Cobalt ETCnomad, 1,024 Outputs
CBLT512	Cobalt Output Upgrade, 512 Outputs

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 time code.

Cobalt 10 is offered as a base console with 5000 control channels and 2,048 outputs (four universes of DMX512A). A single control channel may control only intensity (dimmers) or it may control a DMX-controlled device (moving light, LED, media server, etc.).

To increase the capacity of the console, order additional 512-output upgrades.

For example, to take the console to its maximum configuration, order a console and twenty-eight (28) 512-output upgrades.

2,048 outputs + (28x512) = 16,384 outputs (32 universes of DMX512)

Two universes are available at the console via 5-Pin XLR and all universes may be distributed via Ethernet-based methods, including Net3 DMX/RDM Gateways, ETCNet2 DMX Nodes and/or ArtNet nodes (purchased separately).

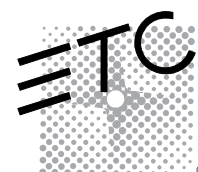
Cobalt 10 Accessories

MODEL	DESCRIPTION
Cobalt MFW20	Cobalt Motorized Fader Wing 20
Cobalt MFW10	Cobalt Motorized Fader Wing 10
NET3 RFR	ETC Net3 Radio Focus Remote
NET3-RFR-RX	ETC Net3 Radio Focus Remote, receiver only
NET3-RFR-TX	ETC Net3 Radio Focus Remote, transmitter only
CBLT Littlite	Cobalt Littlite® Worklights (spare)
CBLT10 Flightcase	Cobalt Flightcase
NET3 RVI	ETCNet3 Remote Video Interface
19" LCD	19" Flat-screen display (1280x1024)
19" LCD-T	19" Touchscreen display
WMON	Wide-format flat-screen display
WMONTS	Wide-format multi-touch display

Cobalt Offline Editor software for Mac and PC platforms is available for download from www.etconnect.com

SHIPS WITH:

- Power cord
- Dust cover
- Two Littlite® worklights
- Mouse and mousepad
- External alpha-numeric keyboard (US model only)



SPECIFICATIONS

SYSTEM CAPACITY

- 16,384 Outputs/parameters
- 5,000 Control Channels
- 9,999,999 Presets
- 4 x 999 Palettes (Focus, Color, Beam, All)
- 999 Groups
- 999 Macros
- 999 Sequences
- 999 Master Pages
- 99 Effect Playbacks
- Supports three external DisplayPort monitors starting at 1280x1024 resolution with optional touchscreen control
- Solid-State Hard Disk
- Seven USB 2.0 ports for USB flashdrive, pointing devices, keyboards

DISPLAY FUNCTIONS

- Tabbed navigation of graphical screens
- All show data may be viewed on a single monitor
- Screen layouts may be recorded for quick recall
- Browser
 - File Management
 - Show Data lists
 - Patch Displays and functions
 - Help
- Channel Displays
 - Live, Blind, Preset, Sequence and Group Editors
 - High-density views of channel data
 - Format allows user to choose a packed Flexichannel-style view of channels
 - Zoom allows user to define how many channels are viewed
 - Current direction of fade and preview of next intensity move
 - Color-coded intensity levels indicate HTP winner
 - FCB indicators of changed or moving data
 - Channel-number color indicates intensity only or device
 - Channel texts and device type displayed on channel
 - User-selectable level of detail: more channels/less information or fewer channels with more information
 - Context menus for often-used commands
- Channel Layouts
 - 999 Channel Layouts
 - User-defined topographical view of channels
 - May include other types of data – Presets, Palettes, Groups, etc.
 - Auto-selectable (visible layout changes based on channel selection)
- Attribute Displays
 - Live Attributes with Formats to display current rig status
 - Parameters may be edited directly in the Live Attributes tab
 - Attribute views in editors for viewing and editing parameter and time/delay data

SPECIFICATIONS

- List Views
 - High-density view of recorded data
 - Group, Focus Palettes, Color Palettes, Beam Palettes, All Palettes, Preset, Sequence, Dynamic Effects, Master Page List views
 - Apply text labels to show data
 - Access Editor displays from within list views
- Editor Views
 - View and edit show data within editor views
 - Group, Focus Palettes, Color Palettes, Beam Palettes, All Palettes, Preset, Sequence, Dynamic Effects, Master Page, Template Editor views
 - Multiple editor views may be open at the same time
 - Organizer view for drag-and-drop editing/importing of data
- Patch Views
 - Output Editor
 - Channel List, Output List, Device List
 - Channel Database for applying up to four labels to each channel
 - Patch Wizard for clearing patch, range patching and device 'next available' patching
 - Comprehensive device library with calibrated color data, gobo bitmaps
 - Custom device template editor
- Playback Views
 - Main Playback view
 - Connected Master Playback view
 - Timeline view of current crossfade progress and preview of next crossfade
 - On-screen playback controls
 - Drag and drop sequence editing

PLAYBACK CONTROLS

- Main Playback crossfader pair for theatrical-style sequence with split spring-loaded rate controls
- Master Playback for connection to sequences on the Masters
- Manual or timed fade control
- 999 Sequences (triggered by manual playback, "Go" or chaser mode)
- Grandmaster fader
- Blackout/On/Freeze rotary switch

MASTERS SECTION

- 80 multipurpose master fields
- 20 master playbacks with full-color graphical LCD displays
- Top and bottom rows of master playbacks may be independently assigned to any range of 10 masters
- Bottom 10 master playbacks with motorized faders and master/flash keys
- Top 10 master playbacks with backlit color-coded endless potentiometers with built-in flash key and master key
- 999 Master Pages
- Masters may be independently paged in banks of 20 faders (top/bottom)
- Paging and range selection for each bank of Masters
- Channels Only and Device Mode keys
- Masters Mode key

SPECIFICATIONS

DEVICES SECTION

- Four Encoders with keys
- Focus, Color and Beam encoder pages
- User-defined encoder pages
- Interactive touchscreen device controls
- Interactive touchscreen direct selects
- Highlight, Fan and Mask
- Dynamic group selection
- Device controls dock with a color picker and with touch- or mouse-based control features for all parameters without paging

INDEPENDENT SECTION

- Six rotary faders
- Three switches with LED indicators
- May contain any channel data, including attributes
- Switches may be assigned latch or momentary operation
- All may be assigned inclusive, inhibitive or exclusive operation

BACKLIT PROGRAMMING PAD FEATURES

- Channel Functions
 - Selection lists constructed via touchscreen or keypad Channel, +, -, Thru keys
 - Levels set with direct selects, level wheel or @ Level key
 - Assign palettes and dynamic effects quickly
 - Assign channels to masters
- Preset Functions
 - Record and update
 - Apply timing
 - Fetch and select data based on recorded presets
 - Assign presets to masters
- Sequence Functions
 - Create and assign sequences to the main playback and masters
 - Insert and edit steps
 - Apply step timing
- Group Functions
 - Create and edit groups
 - Assign groups to masters
- Palette Functions
 - Create and edit palettes
 - Assign palettes to masters
- Effects Functions
 - Insert effect playbacks for chase, dynamic, content and image effects
 - Adjust parameters of effect playbacks on the fly
 - Create chase objects
 - Create effect series and channel sets
 - Create and edit dynamic-effect templates
 - Assign dynamic effects to channels
 - Insert running dynamic effects into the library
 - Modify running effect playbacks
 - Assign effect playbacks to masters
- Electronic Manual and Help System
 - Up-to-date documentation provided within every software release
 - Text-based search function within console
 - Create favorites and add notes/comments to electronic manual

SPECIFICATIONS

INTERFACES AND ACCESSORIES

- Two individually configurable Ethernet ports, 802.3af compliant PoE
- ETCNet2, Net3 (powered by ACN), sACN and ArtNet output protocols
- Two DMX512A/RDM ports
- Contact closure triggers via D-Sub connector
- Three female IEC connectors
- Three video connectors support DisplayPort external displays (1280x1024 minimum resolution) with optional single- or multi-touch screen control
- USB 2.0 multipurpose (seven ports)
- Client PC via Ethernet (requires ETCnomad Dongle)
- Net3 Radio Focus Remote (RFR) via USB or Ethernet
- Phone Remote
- OSC Open Sound Control via Ethernet
- UDP event triggering via Ethernet
- aRFR for Android devices and iRFR for Apple iOS devices via wireless Ethernet
- MIDI in/out (MIDI timecode, MIDI notes, MIDI Show Control (MSC))
- MIDI timecode, MIDI Show Control through Net3 Show Control Gateway
- SMPTE timecode through Net3 Show Control Gateway
- Contact closure (12 analog inputs, 12 SPDT contact outputs, RS-232) through Net3 I/O Gateway
- Support for up to 60 additional master playback faders using Cobalt Motorized Fader Wings, Universal Fader Wings or the Congo jr™ Master Playback Wing

ELECTRICAL

- AC input (100 - 240V at 50/60 Hz)
- Maximum power consumption (excluding external monitors) approximately 2A 120/240V

PHYSICAL

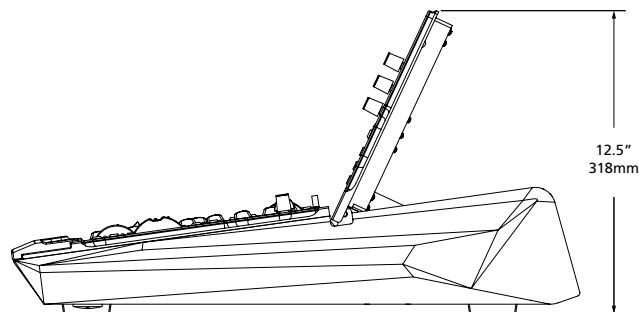
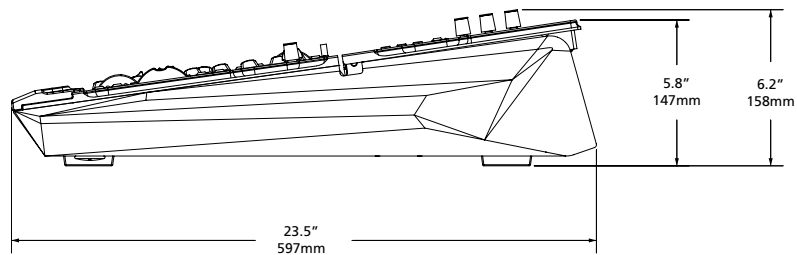
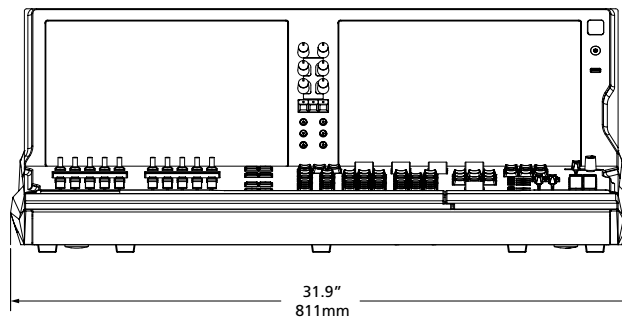
Cobalt Dimensions*

MODEL	HEIGHT (MAX)		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
COBALT 10	12.5	318	31.9	811	23.5	597

Cobalt Weights*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
COBALT 10	55	24.9	63.5	28.8

*Weights and dimensions typical.



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