ETC Express ™ 24/48
Express Console Series

GENERAL INFORMATION

Hands-on foundational lighting control console with manual 2-scene preset operation, industry-acclaimed ETC Expression software and functionality.

APPLICATIONS
- College
- Middle/ High School
- Community Theatre
- Trade Show
- Small TV Studio
- Church

FEATURES
- Preset style operation
- 48 Channels
- 1024 DMX outputs
- 600 Cues
- 500 Groups
- 2000 Macros
- 10 pages of 24 Submasters
- Two scene preset or preprogrammed operation
- Preset Focus points
- Moving Light features
- LTP (Latest Takes Presidency) Channels
- Spreadsheet Editing
- Ethernet for DMX, Video and other signal distribution
- MIDI, MIDI Show Control and MIDI Time Code interface
- Supports ETCLink Dimmer feedback

ACCESSORIES
- Video Node
- DMX Node
- Remote Focus Unit (RFU)
- Radio Remote Focus Unit (RRFU)
- Gooseneck Lamps
- Expression Offline
- Expression Offline for Windows
- Express LPC

ORDERING INFORMATION

Express

<table>
<thead>
<tr>
<th>Model#</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXPS 24/48</td>
<td>Express 24/48</td>
</tr>
<tr>
<td>LPC/250</td>
<td>Express 250 Channel LPC</td>
</tr>
</tbody>
</table>

Express Accessories

<table>
<thead>
<tr>
<th>Model#</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN0DE-RF</td>
<td>DMX Node - rack mount front entry</td>
</tr>
<tr>
<td>DN0DE-RR</td>
<td>DMX Node - rack mount rear entry</td>
</tr>
<tr>
<td>DN0DE-W</td>
<td>DMX Node - wallbox mount</td>
</tr>
<tr>
<td>VNODE-R</td>
<td>Video Node</td>
</tr>
<tr>
<td>RFU</td>
<td>Remote Focus Unit</td>
</tr>
<tr>
<td>RRFU</td>
<td>Radio Remote Focus Unit</td>
</tr>
<tr>
<td>M218</td>
<td>VGA Color Monitor</td>
</tr>
<tr>
<td>M219</td>
<td>LCD Flat Screen Display</td>
</tr>
<tr>
<td>4000A4003</td>
<td>Monitor Dust Cover for M218</td>
</tr>
<tr>
<td>M715</td>
<td>Littlelite Work Light</td>
</tr>
<tr>
<td>M604</td>
<td>Parallel Printer</td>
</tr>
<tr>
<td>EOL</td>
<td>Expression Offline</td>
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</tbody>
</table>

Other Consoles in Express Family

<table>
<thead>
<tr>
<th>Model#</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>EXPS 125</td>
<td>Express 125</td>
</tr>
<tr>
<td>EXPS 250</td>
<td>Express 250</td>
</tr>
<tr>
<td>EXPS 48/96</td>
<td>Express 48/96</td>
</tr>
<tr>
<td>EXPS 72/144</td>
<td>Express 72/144</td>
</tr>
<tr>
<td>LPC/250</td>
<td>Express 250 Channel LPC</td>
</tr>
</tbody>
</table>
### SPECIFICATIONS

**GENERAL**
- 96 channels
- 1,024 DMX512 dimmers
- 600 cues
- 500 groups
- 99 focus points
- Effects with up to 100 steps each
- 2,000 macros
- 24 submasters x 10 pages
- 2 timed/manual fader pairs
- Diskette drive
- Single VGA output
- Printer port
- UL, cUL, CE listed

**DISPLAY FUNCTIONS**
- (Requires VGA monitor)
  - Cue List
  - Stage
  - Blind
  - Fader status
  - Spreadsheets and Lists
    - Cue, Sub, Group and Focus point views
  - Patch
    - Proportional levels
    - 32 user-definable profiles
    - Dimmer Doubling capability (see Dimmer Doubling data sheet)
  - Setup
    - Flexichannel (displays only used channels)
  - Faders
    - 2 Timed/manual fader pairs with Go, Hold, Rate, Clear, and Back buttons
    - Individual last action fade capability for every channel
  - Trackpad
  - Master slider
  - Blackout button
  - 48 Channel faders
    - 24 channel two-scene operation
    - 48 channel single scene operation
    - Individual bump buttons
  - Submasters
    - 24 submasters (times 10 pages) with bump buttons and integral LEDs

**INTERFACES**
- DMX512 Outputs (2)
- Ethernet
- ETCLink
- MIDI, MIDI Show Control, MIDI Time Code
- Remote Macro/Go
- Remote Trigger

**CONTROL KEYPAD FEATURES**
- Cues from .1 to 999.9
- Split up/down fade times
- Wait times
- Follow time
- Link to cue or macro
- Modified rate
- 8-part multipart cues
- Selective cue recording

**PLAYBACK CONTROLS**
- Channel Functions
  - Lists constructed with +, –, Except, And, Thru
  - Sneak sets channel to discrete or fader level in default/specify time.
  - Only and Except features for group and channel manipulation.
  - Channel Attribute Display
  - Independent channel capability
  - Last Action Channels
  - X/Y Link List
- Focus point
- 16-bit fade functions
- Pop-up displays
- ML Patch
- Group Functions
  - 500 groups with labels
  - Any cue or submaster may be accessed as a group
- Submaster Functions
  - 10 pages of 24 submasters with labels, timing and rate attributes
  - Bump buttons may be enabled, disabled or solo
  - Range editing of submaster attributes in submaster list
  - Submasters may be individually changed between pile-on and inhibitive
- Effect Functions
  - 100 steps each
  - Step times
  - In/Dwell/Out step times
  - High/Low levels
  - In/Dwell/Out effect times
  - Effects may be recorded as cues and loaded to submasters.
  - Range editing of effect step values and attributes
  - Live effects recording
- Macros
  - 2,000 macros
  - Macros may activate any button on the console
  - Live Learn mode
  - Blind editing
- Astronomical Time Clock
  - Program up to 500 events
  - Play back according, day of week, time of day or in reference to time before/after sunrise or sunset

**OPTIONAL EQUIPMENT**
- DMX Node
  - ETCNet 2 device with remote DMX output, RFU
- Video Node
  - ETCNet 2 device with keyboard, RFU, VGA, Printer ports, Serial
- Remote Focus Unit
  - Handheld device with a keypad and LCD screen accesses most system functions for local adjustments and show editing
- Radio Remote Focus Unit
  - Wireless handheld transmitter with a backlit keypad and small receiver unit accesses most system functions for local adjustments
- Expression Off-Line
  - Available for free download from ETC via www.etcconnect.com
- Parallel Printer
- VGA Monitor
CONSOLE CONNECTIONS

Wire Types for Express consoles with....

<table>
<thead>
<tr>
<th>Device</th>
<th>Wire Type</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor Racks</td>
<td>DMX (XLR5) (1) Belden 9729</td>
<td></td>
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<tr>
<td></td>
<td>ETC Link (XLR6) (1) Belden 9729 (2) #16 AWG Stranded</td>
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<tr>
<td>Video Node</td>
<td>Category 5 Ethernet (RJ45) (1) Belden 1583A (UTP)</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>DMX Node rack mount</td>
<td>Category 5 Ethernet (RJ45) (1) Belden 1583A (UTP)</td>
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</tr>
<tr>
<td>Device</td>
<td>Wire Type</td>
<td>D</td>
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</tr>
<tr>
<td>RFU (XLR6) (1) Belden 9728 (2) #16 AWG Stranded</td>
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<td></td>
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</tr>
<tr>
<td>Printer - Parallel</td>
<td>Standard Parallel Printer Cable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote Macro</td>
<td>DB 15 Consult Manual or ETC Technical Services for details</td>
<td></td>
<td></td>
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</table>

*Ethernet distribution equipment required
# Express™ 24/48

## Express Console Series

### PHYSICAL

![Express™ 24/48 Diagram](image)

### DIMENSIONS

<table>
<thead>
<tr>
<th>Express 24/48 Dimensions</th>
<th>Model</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
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<tbody>
<tr>
<td></td>
<td>inches/mm</td>
<td>inches/mm</td>
<td>inches/mm</td>
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</table>
| Express 24/48            | 6.0/150     | 43.0/1090 | 15.0/380  

### Express Accessories Dimensions

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<td></td>
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</tbody>
</table>
| Express LPC        | 1.8/45 | 17.0/432 | 12.5/320  
| DMX Node - rack    | 1.8/45 | 17.0/432 | 12.5/320  
| DMX Node - wallbox | 8.0/203 | 8.0/203 | 4.1/105  
| Remote Focus Unit  | 1.4/34  | 8.5/250  | 5.5/140  
| Radio Remote Focus Unit | 4.5/11.5  | 1.5/6.5  | 0.8/2.0  
| Transmitter        | 4.4/11.2 | 2.8/7.1  | 1.6/4.0  
| Receiver           | 1.8/45  | 17.0/432 | 12.5/320  
| Video Node         | 1.8/45  | 17.0/432 | 12.5/320  

### WEIGHTS

<table>
<thead>
<tr>
<th>Express 24/48 Weights</th>
<th>Model</th>
<th>Weight</th>
<th>Shipping Weight</th>
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</thead>
<tbody>
<tr>
<td>lbs/kg</td>
<td>lbs/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Express 24/48</td>
<td>30/13.6</td>
<td>32/14.5</td>
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</thead>
<tbody>
<tr>
<td>lbs/kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Express LPC        | 11.0/5.0 | 18.3/8.3  
| DMX Node - rack    | 8.0/3.6  | 18.0/8.2  
| DMX Node - wallbox | 2.2/1.0  | 10.0/4.5  
| Remote Focus Unit  | 3.0/1.4  | 5.0/2.3   
| Radio Remote Focus Unit | 0.6/0.3  | 2.0/0.9   
| Transmitter        | 1.0/0.5  |                  
| Receiver           | 8.0/3.6  | 18.0/8.2  
| Video Node         | 1.8/45   | 12.5/320  

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