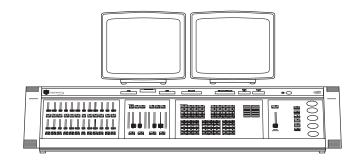
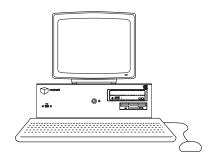
### **Emphasis Series**





### **GENERAL INFORMATION**

Lighting control system harnessing and extending the power of WYSIWYG™ visualization and the acclaimed ETC Expression style operation, software and functionality in a fully integrated, networked system.

APPLICATIONS University, College, School Theatre

Regional Theatre TV Studio Touring Shows

Special Events, Trade Show, Church 500, 1000, 2500 or 5000 channels

32,767 dimmers

**FEATURES** 

Expression-style ease of operation

9,999 cues, 255 focus points, 500 groups, 2000 macros

16-bit fades

Hard drive and CD-RW for file storage and transfer

WYSIWYG-style paperwork, drafting

and visualization

Comprehensive libraries (over 6000 items) Wireframe and shaded visualization of

stage and blind views

Preview and Storyboard in wireframe

and shaded view

Emphasis backup server configuration for

synchronized backup Photo-realistic Rendering

Custom Report and Plot content and layout

Import / Export of WYSIWYG files
Patch and data changes propagate

throughout system Graphic fixture selection

Optional functionality: Emphasis 2D and Emphasis 3D

Supports WYSILink message logging

Full WYSILink option available

**ACCESSORIES** Flat screen monitors

Remote Focus Unit (RFU)

Radio Remote Focus Unit (RRFU) Wireless Remote Focus Unit (WRFU)

ETCNet2 Video Node ETCNet2 DMX Nodes

Alpha Numeric Keyboard (included)

Scroll Mouse (included)

**Tower Stand** 

5-port Ethernet hub/switch (included)

19" equipment rack tray Remote Virtual Face panel Emphasis Offline Editor

### ORDERING INFORMATION

### **Emphasis Servers**

Model #	Description
EMPH-3D-500	3D Server 500 channels
EMPH-3D-1000	3D Server 1000 channels
EMPH-3D-2500	3D Server 2500 channels
EMPH-3D-5000	3D Server 5000 channels
EMPH-3D-500-L	3D Server 500 channels with WYSILink
EMPH-3D-1000-L	3D Server 1000 channels with WYSILink
EMPH-3D-2500-L	3D Server 2500 channels with WYSILink
EMPH-3D-5000-L	3D Server 5000 channels with WYSILink
EMPH-2D-500	2D Server 500 channels
EMPH-2D-1000	2D Server 1000 channels
EMPH-2D-2500	2D Server 2500 channels
EMPH-2D-5000	2D Server 5000 channels
EMPH-2D-500-L	2D Server 500 channels with WYSILink
EMPH-2D-1000-L	2D Server 1000 channels with WYSILink
EMPH-2D-2500-L	2D Server 2500 channels with WYSILink
EMPH-2D-5000-L	2D Server 5000 channels with WYSILink

### **Emphasis Facepanels**

Model #	Description
EMPH-EXPN	Expression ECS Facepanel
EMPH-EXPN-S	Expression ECS Facepanel with SMPTE
EMPH-INST	Insight ECS Facepanel
EMPH-INST-S	Insight ECS Facepanel with SMPTE
EMPH-EXPS	Express ECS Facepanel
EMPH-EXPS24	Express 24/48 ECS Facepanel
EMPH-EXPS48	Express 48/96 ECS Facepanel
EMPH-EXPS72	Express 72/144 ECS Facepanel

#### **Emphasis Accessories**

Model #	Description
D-NODE	See DMX Node datasheets for details
V-NODE	ETCNet2 Video Node
M219	LCD Flat Screen Display
M732	Emphasis Server Tower Stand
M733	Emphasis Server 19" rack-mount tray
N1029	5-port Ethernet Switch
4200A1108	Emphasis Dual Video Upgrade Kit (ETC Hardware)
WYSILink	WYSILink
RFU	Remote Focus Unit
RRFU	Radio Remote Focus Unit
WRFU-FL	Wireless Remote Focus Unit, Full System
LPC250	Express Lighting Playback Controller
LPC400, LPC800, LPC1200	Expression Lighting Playback Controller
LPC512	Insight Lighting Playback Controller



#### **SPECIFICATIONS**

SYSTEM CAPACITY 32,767 DMX512 dimmers/attributes 500/1000/2500/5000 control channels

9,999 cues 500 groups 255 focus points

Effects with up to 100 steps each

2,000 macros

24 submasters/10 pages (108/10 on Insight)

Two timed/manual fader pairs

Hard drive CD/RW drive Diskette drive

Single/Dual VGA outputs

EMPHASIS CONSOLE: FACEPANEL INTERFACE

Playback Monitor Fader status Cue List

MIDI/SMPTE Event List Command Monitor

Stage Blind

Spreadsheet and List

Cue, Sub, Group and Focus Point

Fader

A/B fader and/or C/D fader

Spreadsheet Tracksheet Patch

Proportional levels 32 User-definable profiles

Full integration with data and visualization

Park

Faders

Channel or dimmer

Setup Expand

Flexichannel (displays only used channels)

PLAYBACK CONTROLS

Two timed/manual fader pairs with Go, Hold,

Rate, Clear, and Back keys.

Individual last action fade capability for

each channel Submasters

24 submasters with bump buttons and

integral LEDs (108 on Insight)

**Encoders** 

Five Moving Light attribute encoders<sup>1</sup>

Rate wheel¹ Level wheel¹ Trackpad² Master slider Blackout button

Channel faders and bump buttons

(Two-Scene Express only)

INTERFACES DMX512 Configurable Outputs (four¹/two²)

Ethernet MIDI

MIDI Show Control MIDI Time Code

SMPTE1

Remote Focus Unit (RFU) Remote Macro/Go Remote Trigger<sup>2</sup> File Server

CONTROL KEYPAD

FEATURES

Cue attributes
Cues from .1 to 999.9

Split up/down fade times

Wait times Follow time

Link to cue, macro or submaster

Modified rate

Label<sup>1</sup>

Eight-part multipart cues Selective cue recording

**Channel Functions** 

Lists constructed with And, Thru, Except Sneak sets channel to discrete or fader level

in default/specified time

Only and Except features for group and

channel manipulation Channel Attribute display

Independent channel capability Flip provides inversion of pan/tilt or

lamp/scroll programming Last Action Channels

Dual fader wheels and five control attributes for moving lights<sup>1</sup>

Frame Tables

**Moving Light Functions** 

Six pages of attribute encoders<sup>1</sup>

Focus Points

16-bit fade resolution Pop-up displays Dynamic Effects Group Functions

500 groups with labels Any cue or submaster may be accessed as a group

Submaster Functions

Ten pages of 24 submasters with labels, timing and rate attributes

(108 on Insight)

Bump buttons may be enabled, disabled or solo Range editing of submaster attributes in submaster list

Submasters 13-24 (73-108 on Insight) may be individually

changed between pile-on and inhibitive. Any Submaster can become a Supermaster

of other Submasters

Effect Functions

Live effects editing

Step-based intensity effects
Template-based Dynamic Effects
Comprehensive timing effects
Customize dynamic templates

Effects may be recorded as cues and/or loaded to submasters

Subroutines

Subroutines on submasters

Up to 26 cue stacks (up to 110 on Insight) 100 steps with level and timing attributes.

Multiple step types Multiple playback styles Filter for selective playback

Macro firing

Macros

Macro list

2,000 macros, 1000 steps each

Macros may activate any key or command sequence on

the console. Live Learn mode Blind editing

Remote Macros (via facepanel and video nodes)

Startup Macro

Astronomical Time Clock

Program up to 500 events

Play back according to date, day of week, time of day

Program longitude/latitude of show location

Play back in reference to time before/after sunrise or sunset

**Note:** Some functions that are available may be modified over the life of the product. In addition, functions not described here may also be added. In order to maintain the highest possible standards, ETC reserves the right to change specifications without notice.

<sup>&</sup>lt;sup>1</sup> Expression and Insight facepanels only

<sup>&</sup>lt;sup>2</sup> Express facepanels only

# **Emphasis® Control System**

### **Emphasis Series**

### **SPECIFICATIONS**

**EMPHASIS** Pentium based processor

Hard drive **SERVER** CD/RW drive Floppy drive Sound card USB ports

Serial Ports VGA/DVI<sup>3</sup> monitor output Parallel printer port

19" rack mountable / desktop

**Network Printing** Network file sharing **Partial Show Read Show Mode** 

User log-in USFR

Password protected System Manager log-in Extended Windows™ desktop³ **INTERFACE** 

Scroll Mouse (any pointing device)

Keyboard

Hotkeys, drop-down menus, toolbar icons, shortcuts Pop-up windows

DISPLAYS/ **USER MODES**  Emphasis mode Console Screen — facepanel screens with

wireframe and shaded view3

Console — facepanel screens and virtual console

Subroutine

Quad - wireframe and shaded3 views Wireframe - plan, section and isometric<sup>3</sup>

Shaded<sup>3</sup>

Monitor — one facepanel screen

CAD mode

Wireframe, Quad, Flight case, Shaded<sup>3</sup>

Data mode

Spreadsheet, H Select, V Select, Patch, Errors

Presentation mode

Reports, Plots, Images, Worksheet

Link mode Message log

CONTROL **FEATURES**  Graphic selection of fixtures

Mouse click Multiple selection Mouse click + Ctrl

> Left click dragged box Right click dragged box, specify by type

By layer By Concept Menu tools for

Fixture home state Intensity Full/Out/Specify

Iris Wide/Tight/Specify Colour Palette & Library

Console toolbars

Screen/mode selection, record tools,

configurable buttons Virtual console

Virtual console

Clickable softkeys and menu items Faders mirror levels from facepanel

Blind editing with visualization for

Cues Groups Submasters **Focus Points** 

Preview Mode - visualize any cue, and

current cue +1, +2, +3

Storyboard – visualize multiple cues and

activate live from window

Rendering<sup>3</sup>

File image, and bitmap output

Variable resolution

Full color mixing, amber shift, haze, smoke, radiosity, shadow, ambient light

CAD **FEATURES**  Comprehensive libraries for

Fixtures — over 1400 from 72 manufacturers Truss – over 1400 items from 19 manufacturers Theatrical scenic elements, including over 170 people Colour — gel catalogs from 18 manufacturers Gobos — catalogs from 22 manufacturers

Accessories, Lens, Lamps, Symbols

CAD conventions

Missing Coordinate XYZ command line Relative & Absolute values Ortho, Snap, Cursor, Origin

Undo, Redo, Repeat last command, Group, Ungroup,

Move, Rotate, Focus, Mirror Import from .dwg, .dxf

Interactive & specified object drawing

Dimension & Distance tools

Layers & Scenes

Extrude, Break, Convert, Divide, Fillet, Array

Drawing tools

Riser, Sphere, Column, Pipe, Line, Circle, Arc, Text Label, Surface, Extruded Surface, Focus Position, Camera, Venue: Black Box, Proscenium Arch, Arena Specified and interactive object creation

Fixture property tools
Point of View<sup>3</sup>, Shutter<sup>3</sup>, Barn Door<sup>3</sup>, Barrel Rotate<sup>3</sup>,

Patch, Accessories Fixture photometrics

Quick Tools

Spot, Unit, Purpose, Focus, Channel, Patch,

Dimmer, Circuit, Colour, Gobo

Shortcut tools

Col/Gobo, Fixture, Truss, Accessories, Library, Navigation, Views, Concepts, Palettes

Object property tools

Translusency, Light Emitting Surface, Textures,

Materials, Legs & Borders

Focus Position with Link to Focus Point

**Position Manager** 

DATA

**FEATURES** Fixture layer indication

Fixture control status

**EDMX** 

Patch

Graphic selection

Drag-and-drop patching Spreadsheet data entry & edit Error checking & reporting Data filter

Configurable spreadsheets

Fully interactive with all data entry in system Dynamically updated from any screen, including

changes made at facepanel

PRESENTATION Configurable reports from data Configurable plot printing **FEATURES** 

Images from render & screen bitmaps

Worksheet for plot notes Multi-format output WYSIlink message log

DIMMER MONITORING Pop-up messages

About Dimmer⁴ and About Rack⁴ **FEATURES** 

Node / Device manager<sup>4</sup>

CEM backup look recording & playback4 Graphic dimmer error indication in

wireframe views4

Highlighted dimmer error indication in data views4

EDMX monitoring4

CEM+: Sensor+ connect browser interface

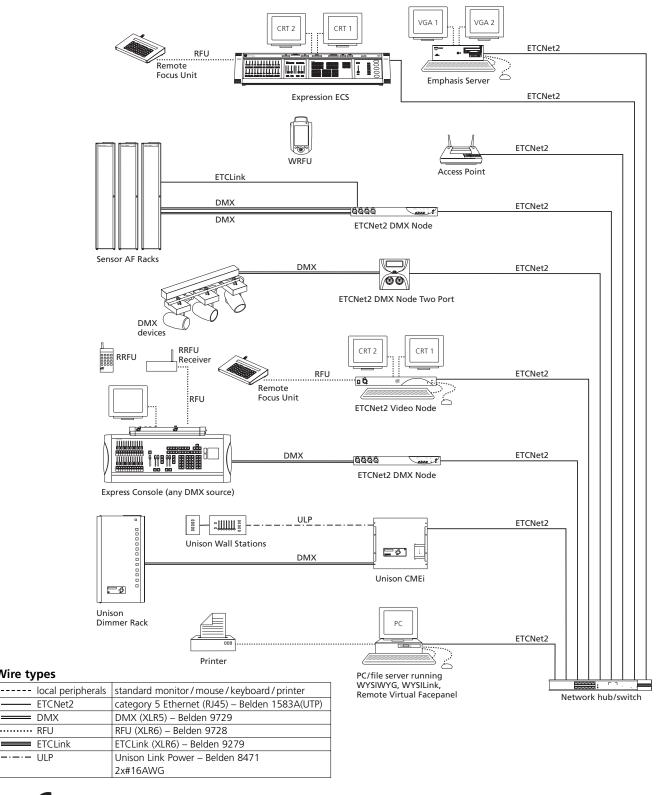
<sup>&</sup>lt;sup>3</sup> Emphasis 3D system only

<sup>&</sup>lt;sup>4</sup>WYSILink add-on option features. Messaging dependant on AF/Standard option for Sensor Dimming system

# **Emphasis® Control System**

## **Emphasis Series**

### TYPICAL SYSTEM RISER





Wire types

..... RFU

---- ULP

Corporate Headquarters = 3031 Pleasant View Rd, PO Box 620979, Middleton WI 53562 0979 USA = Tel +1 608 831 4116 = Fax +1 608 836 1736 London, UK ■ Unit 26-28, Victoria Industrial Estate, Victoria Road, London W3 6UU, UK ■ Tel +44 (0)20 8896 1000 ■ Fax +44 (0)20 8896 2000 Rome, IT = Via Ennio Quirino Visconti, 11, 00193 Rome, Italy = Tel +39 (06) 32 111 683 = Fax +39 (06) 32 656 990

Holzkirchen, DE • Ohmstrasse 3, 83607 Holzkirchen, Germany • Tel +49 (80 24) 47 00-0 • Fax +49 (80 24) 47 00-3 00

Hong Kong ■ Room 605-606, Tower III Enterprise Square, 9 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong ■ Tel +852 2799 1220 ■ Fax +852 2799 9325

Web • www.etcconnect.com • Copyright © 2006 ETC. All Rights Reserved. All product information and specifications subject to change. 4200L1004 Rev. E Printed in USA 07/06