ETC® Setup Guide

Congo™ Light Server

Congratulations on your purchase of the ETC® Congo™ Light Server. The Congo Light Server may be configured to run the Congo application software as a server, backup, or client in a Congo and Congo jr console system.

- When the unit is configured as a server, it is the master and maintains the show file and controls output to the lighting system.
- When the unit is configured as a backup, the unit will perform synchronized backup with a server and will take control of the lighting system upon the loss of communication with the server.
- When the unit is configured as a client, you can access real time inputs and outputs of the lighting system through the server.

This document will guide you in the setup and simple operation of the Congo Light Server for use with the Congo and Congo jr control systems. For information on integrating the Congo Light Server with your Congo or Congo jr console, please refer to the Congo/Congo jr Operations Manual that shipped with your console or you may download it from our website at www.etcconnect.com.

Check Shipping Contents

Check the shipping carton to ensure all contents have arrived and are undamaged. Your Light Server ships with the following items:

- USB Mouse
- DVI (male) to VGA (female) adaptor (x2)
- Congo/Congo jr User Manual (on CD)
- IEC Power cords with International connector selection

- USB Keyboard
- Dual DVI video Y-adaptor
- 19" Rack Mount Kit

Electrical and Environmental Specification

- Operating temperature - 100-240VAC, 50-60Hz (2 amps at 120 VAC)
- Ambient temperature and humidity - 0 to 40 degrees C, 95% non-condensing humidity maximum
- Storage temperature and humidity - 0 to 40 degrees C, 95% non-condensing humidity
- CE and ETL Compliant
- Installation Category II, Indoor use only
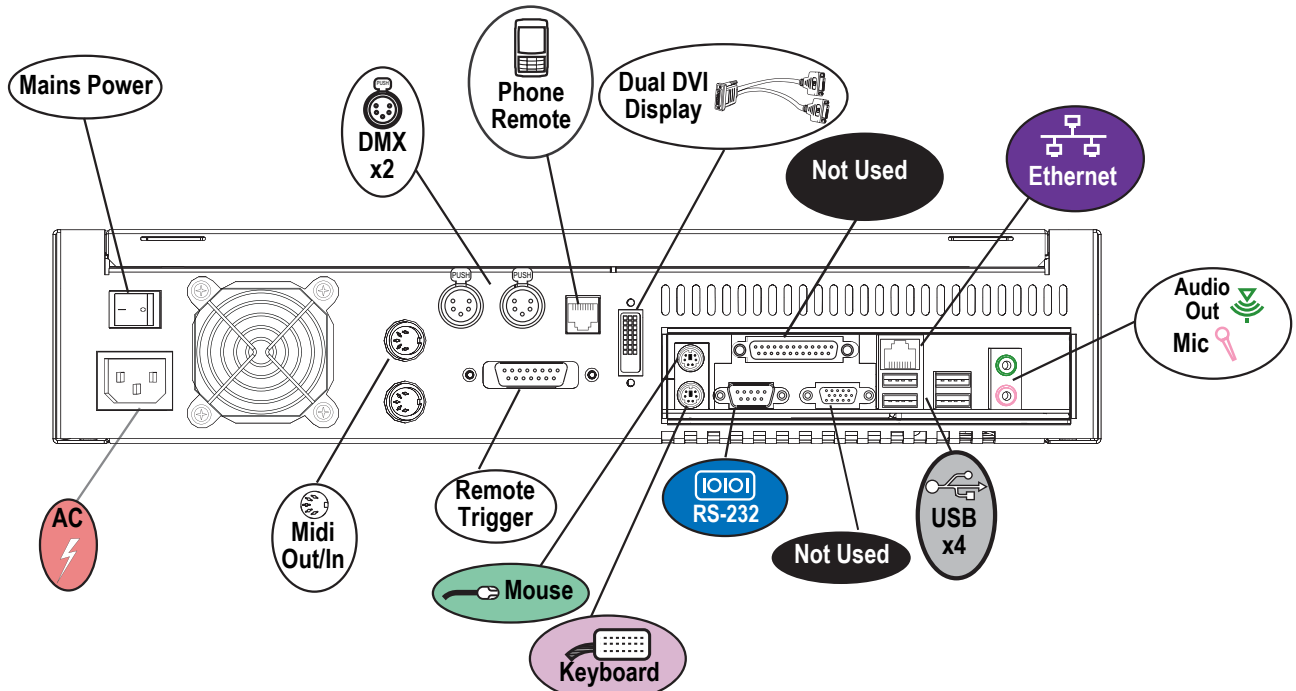- Pollution degree 2
- May operate up to 2000 meters altitude

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Hardware Setup
Connect Cables

Step 1: Attach the appropriate IEC power cord to the power connector, then to the AC receptacle.

Step 2: Attach the dual DVI connector/Y-adapter to the DVI port for digital video output.

Note: *The VGA connector on the rear panel of the unit is disabled. When using VGA monitors, connect the DVI (male) to VGA (female) adaptors (provided) to the DVI Y-adaptor (also provided and installed in step 2).*

Step 3: Connect the USB mouse and keyboard to the USB connectors. To use a PS2 mouse and/ or keyboard, you may use the serial connectors instead.

Step 4: Attach a network ethernet cable to the ethernet port.

Step 5: Connect optional cables as desired including remote trigger, midi, audio, printer and phone remote.

Step 6: When all connections are made, switch the mains power switch on.

Step 7: Press the soft power switch, on the front of the unit, to power up the light server.

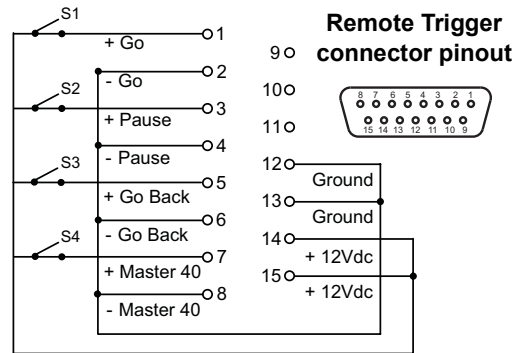**Note:** *If the unit does not power up, check the rear panel to insure the mains power switch is on.*
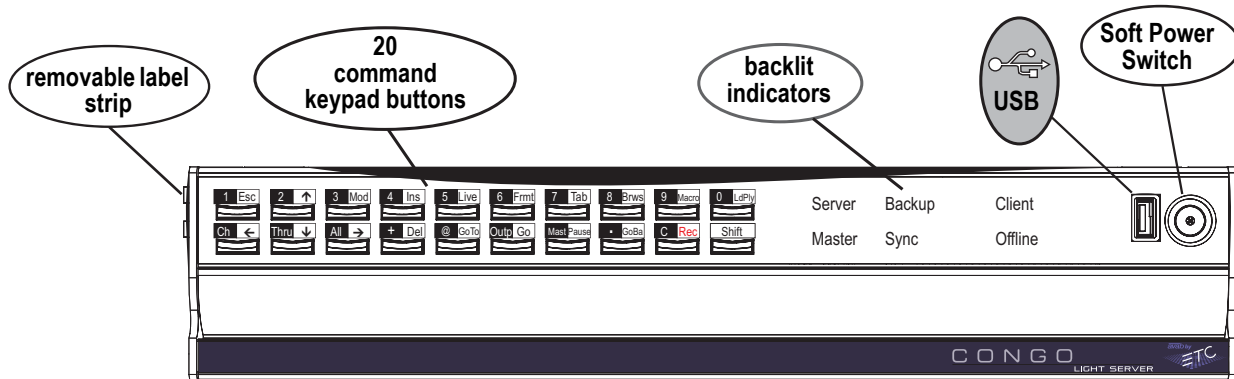

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Connector Pinouts

DMX 512 connector pinout

Pin	Use
1	Common (shield)
2	Data -
3	Data +
4	no connection
5	no connection

Remote Trigger connector pinout

Pin	Signal
1	+ Go
2	- Go
3	+ Pause
4	- Pause
5	+ Go Back
6	- Go Back
7	+ Master 40
8	- Master 40
9	
10	
11	
12	Ground
13	Ground
14	+ 12Vdc
15	+ 12Vdc

S1, S2, S3, S4

Operation Overview

removable label strip

20 command keypad buttons

backlit indicators

USB

Soft Power Switch

Server   Backup   Client
Master   Sync   Offline

CONGO LIGHT SERVER   ETC

Backlit indicators identify the operating status of the light server.
LEDs indicate which mode the unit is operating (server, backup, client) and the status of the operation (master, backup sync or offline).

- The "Server" LED will illuminate when the unit is configured as a server.
- The "Backup" LED will illuminate when the unit is configured as backup and will blink when the unit has control of the lighting system. To control the output of data to the lighting system means the backup is now the master and the "Master" LED will illuminate as well.
- The "Client" LED will illuminate when the unit is configured as a client.
- The "Master" LED will illuminate when the unit is controlling the lighting system.
- The "Sync" LED will illuminate when the unit is synchronized with a server and will blink when the connection to the server has been lost.
- The "Offline" LED is illuminated when the unit is running offline.

20 command keypad buttons are configured for single Congo commands.
The 20 command buttons are set to default button assignments for optimal operation. Press and hold the **[Shift]** button to select the alternate function of any button (for example: **[Shift] [1]** to *Escape*).

USB port is provided for easy show loading to or from a USB storage device.

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Rack Mounting Instructions

Step 1: Locate the rack mounting kit including two rack mounting brackets and installation screws.

Step 2: Align the mounting bracket to the appropriate side of the unit and secure it with the screws provided. Notice that the left and right side brackets are specific to the left and right sides of the unit.