

Figure 1-1. CCU Front Panel

## What is the Console Control Unit (CCU)?

The Console Control Unit is a compact, panel mounted controller that provides centralized control for multiple tape transports, film transports, and other devices used in the post production environment. A Lynx Time Code Module provides synchronization and control for each transport. The Time Code Modules are then connected through a Lynx System Supervisor (SSU), which is controlled and operated by the CCU.

The Console Control Unit connects to the System Supervisor through a single RS-422 serial communications cable, which uses a serial protocol based on the ES Bus protocol standard. The Console Control Unit sends generalized commands to the System Supervisor, where they are translated into real-time machine control commands and transmitted serially to Lynx Modules that control the machines.

A number of CCUs may be daisy-chained together for simultaneous control from multiple operator positions. Alternatively, the system may be controlled by an external control computer such as an editing system, a computerized audio mixing console, a digital audio workstation, or a personal computer with the appropriate software.

The CCU is designed to be used as a synchronizer control interface in a Post Production System, which includes a Console Control Unit, a Lynx System Supervisor and up to six Lynx Time Code or Film Modules.

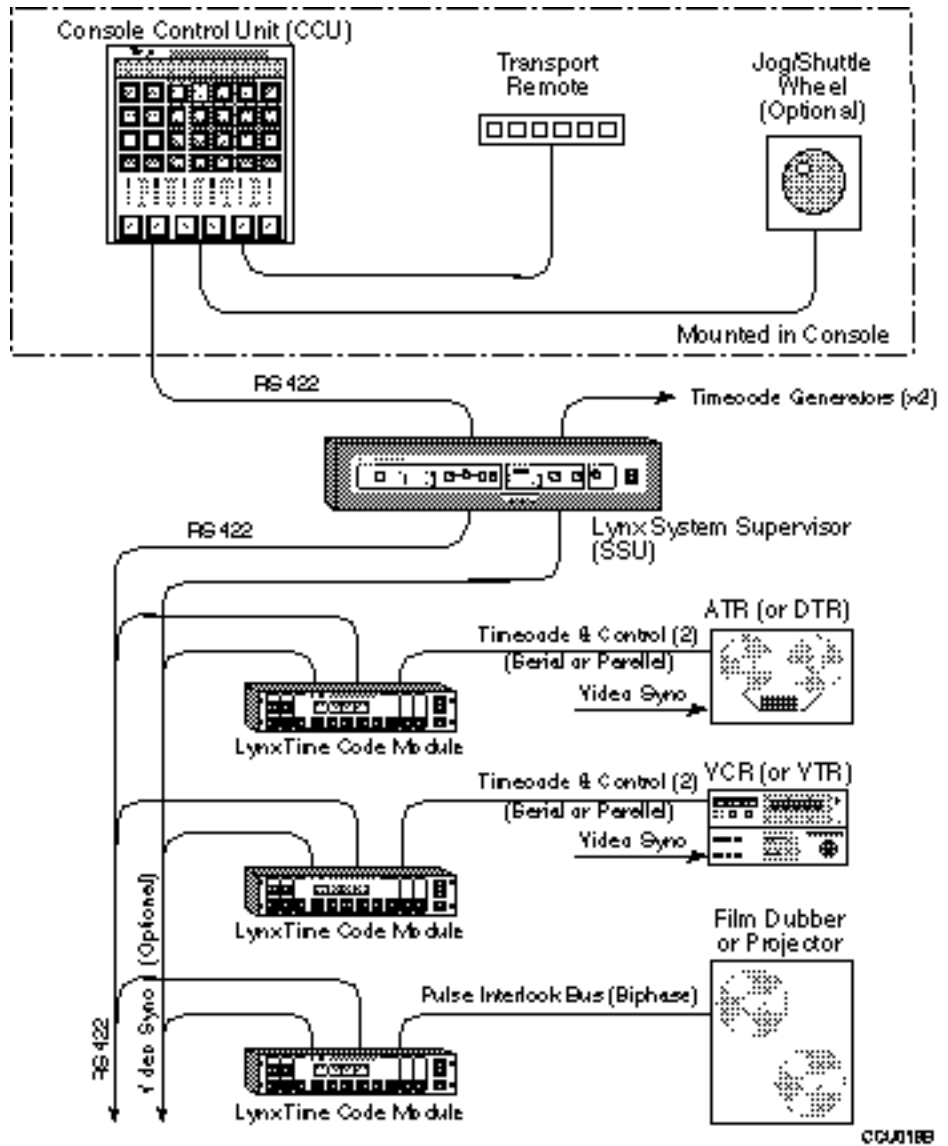


Figure 1-2. General CCU System Block Diagram

---

## System Overview

### Lynx Modules

Each transport in the system is connected to a Lynx module. The Console Control Unit requires Lynx Module firmware version V500-20 or later. Each time the module is powered up, the firmware version number is the first item shown in the module's sign-on display.

### System Supervisor

The System Supervisor is a stand-alone system integration component that handles all high-speed data communications. It connects and controls the CCU, Lynx Modules and transports. Although some instructions for the System Supervisor are included in this manual, you should refer to the System Supervisor manual for detailed information.

The communications to and from the CCU and Lynx Modules are routed through the Lynx System Supervisor, or by a single serial cable.

### Console Control Unit

The Console Control Unit provides functional control for each Lynx Time Code Module connected to the system. In the System Supervisor unit, the CCU also controls the dialog beep function, events GPI relays, and independent time code generators.

The control panel is designed for; ease of operation, with separate banks of keys for Device Selection, Group Select and Special Functions operations. A numeric keypad area is used to address specific devices and their associated memory registers, to perform time calculations, and to allow direct input of time and other numerical data. An alphanumeric display panel is mounted above the keyboard. This 16-character LED display is intuitively programmed to show context sensitive information, always.

## Motion Control Keybank

A Motion Control Keybank may optionally be connected to the CCU. They support control of the edit and loop functions. Soloed or grouped transports can be easily controlled from the keybank.

## Jog Shuttle Wheel

The Console Control Unit has an optional shuttle wheel that allows convenient trimming of numerical data as well as providing Shuttle and Jog modes for transports connected to the system.

## Features

- Full edit functions
- Display select options
- Solo and group mode selection
- User selectable indicator function
- User setup/option entry
- Supports Jog/Shuttle interface
- Supports Motion control interface
- Supports track enable
- 100 memories

## Specifications

<b>Electrical</b>	Mains Input	100-120 VAC at 60 Hz 200-240 VAC at 50 Hz
	Power Requirement	Approximately 30 W
	Power Supply	+5 VDC at 1.5A, external regulated +12 VDC at .2A, external regulated
<b>Communications</b>	RS422 SMPTE ports 38.4 K baud	RS207M standard
<b>Mechanical</b>	Dimensions	5.625"H x 5.4"W x 3"D 14.29 cm H x 13.72 cm W x 7.62 cm D
	Weight	.75 lbs (335 grams)
	Console cutout	4.2"H x 4.0"W 10.67 cm H x 10.16 cm W
	Mounting depth	.375" (.75 cm) below top of console panel (mounts on 4 standoffs)

## Related Products

### Lynx System

71A002	Lynx V500 Time Code Module (TCM)
71A004	Lynx FV500 Film Module
71A005	Lynx Keyboard Control Unit (KCU)
71A013	Lynx System Supervisor (SSU) ES Bus
71A014	System Supervisor with SSL interface card
71B002	SSU Option, SSL Console Computer Interface card

### Micro Lynx System

71A009	Micro Lynx System
71B007	M3 Machine Expansion Card
71B008	ACG-1 Digital Audio Clock Generator Card
71B009	ACG-2 Digital Audio Clock Card with AES/EBU
71B010	VSG Video Sync Generator Card

*TimeLine Vista, Inc. reserves the right to change the design and specifications of equipment without notice.*

# Notes