LCD Control Panel

Technical Reference Sheet

TRS-1030-03

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Aveco
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LCD CONTROL PANELS

OVERVIEW

At the heart of any studio, the control panel gives the operator the necessary control required to produce a complex and dynamic show. With the demands of the industry in mind, Aveco has designed fully featured control panels for any studio situation. The LCD Control Panel is configured on-the-fly by the playlist to provide context sensitive control. The powerful capabilities of the LCD Control Panel can greatly improve the efficiency of the operator and reduce the chance of errors in a fast moving environment. The LCD Control Panel has two variants, a 36 button variant and a 72 button variant

Figure 1. 36 Button LCD Control Panel

Figure 2. 72 Button LCD Control Panel

KEY FEATURES

- Desktop control panel
- Short travel push-button switches with LCD displays
- LCD displays programmable with 64 x 32 pixel matrix and 64 backlit colors
- External power supply

ONE DEVICE FOR MANY PURPOSES

The LCD panel is used as the main manual control tool for Aveco automation systems. However, the open nature of this device allows us to adapt it to any other control environment where such a panel provides added value to the users.

The embedded Linux operating system driving the LCD panel accommodates any custom software packages and can communicate using any TCP/IP-based communication protocol.

DESCRIPTION

Each button on the LCD Control Panel can be programmed with unique text and color based on the status and location in the playlist. As the playlist moves from event to event, the button can change such that it controls the devices and server channels that are enabled at that time.

Capabilities of the LCD Control panel:

- Manual playout control of up to five videoserver or CG channels in ASTRA News. Control buttons change colors based on current status.
- Automated live news production with ASTRA Studio for control of multiple devices such as graphics, mix effects, camera robotics, and videoserver channels.
- Programmable to any user's requests.

TECHNICAL SPECIFICATIONS

Connectivity	
Power Connector	Power jack with lock
Control Interface	RJ45, 1000Mbps Ethernet
Communication protocol	TCP/IP Port No. 6000

Power	
Power Supply	SYS1548-6524-T2, 24VDC/65W (positive polarity)
Power Consumption	Max. 15W

36 BUTTON LCD CONTROL PANEL
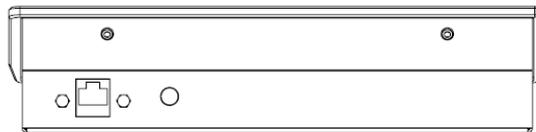
Physical	
Weight	1.2kg
Dimensions(mm)	262x150x65 (WxDxH)

72 BUTTON LCD CONTROL PANEL
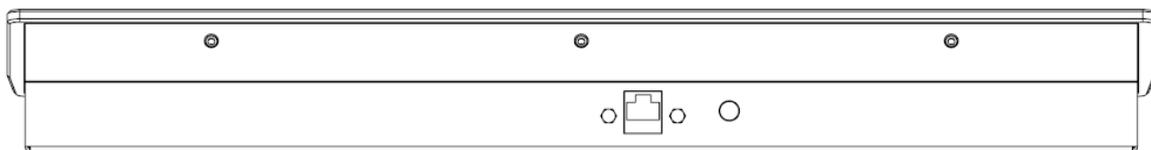
Physical	
Weight	2.2kg
Dimensions(mm)	448x141x58 (WxDxH)

ARCHITECTURE

The LCD Control Panel communicates with Aveco's ASTRA automation servers via Ethernet and TCP/IP protocol. The panel must have the IP address assigned and this IP address shall then be configured in the relevant automation servers, as well.

ASTRA servers
main and mirror

TCP/IP connectivity
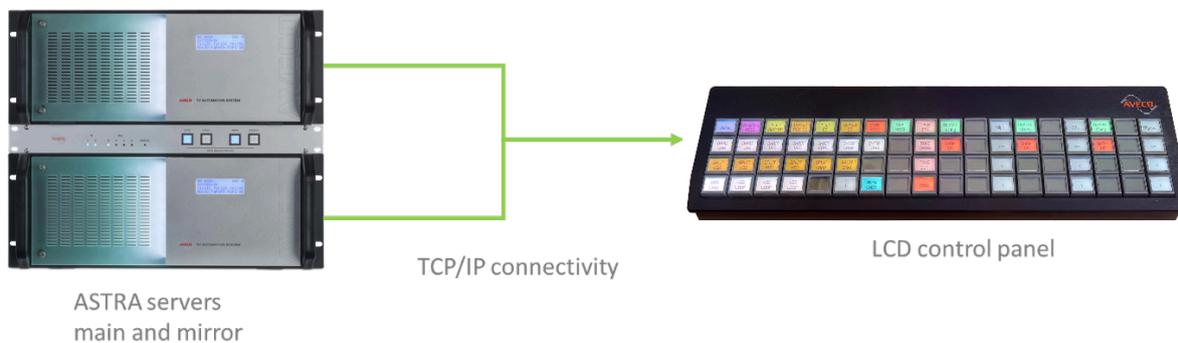
LCD control panel

In terms of redundancy, the ASTRA server which is currently active communicates with the LCD Control panel.

INSTALLATION

HARDWARE

This is a desktop free-standing panel, thus it only needs to be placed at the proper place with power and Ethernet connected.

SOFTWARE

Access to the panel setup is via the MENU button. The setup is self-explanatory and allows setting the following parameters:

- IP address (default 192.168.1.33)
- Gateway (default 192.168.1.1)
- Netmask (default 255.255.255.0)

Please make sure:

- The configuration of main and mirror ASTRA servers include the IP address of the control panel.
- The main and mirror ASTRA servers can freely communicate with the panel by TCP/IP over your network.