

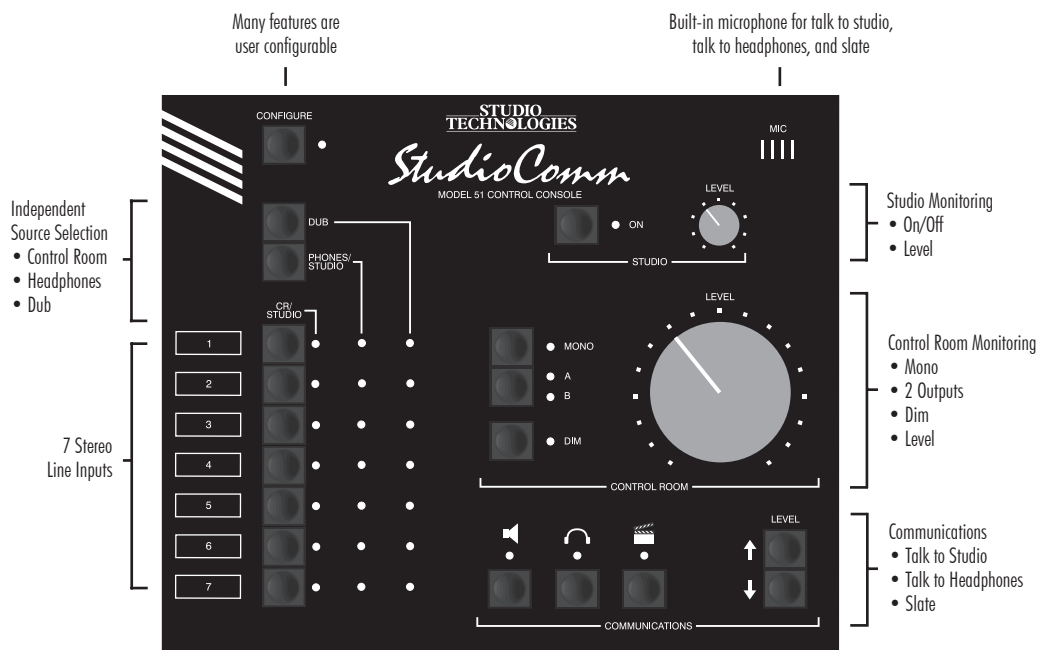
StudioComm

from **STUDIO TECHNOLOGIES INC.**

**Model 50
&
Model 51**

Monitoring & Communications for Audio Production Applications

The Model 50 Central Controller and the Model 51 Control Console are part of the StudioComm family of products. StudioComm equipment is used in audio production facilities that lack flexible monitoring and communications. Model 50 and Model 51 features include control room and studio monitoring, meter output, integrated headphone (cue) system, and dub (copy) output. Communications functions include talk to studio, talk to headphones, and slate. StudioComm products perform to a level rivaling most large consoles, while actually surpassing them in terms of flexibility. With these features, StudioComm products can dramatically increase production efficiency.



Model 51 Control Console Front Panel

Model 50 Central Controller Front Panel



Overview

The Model 50 Central Controller and the Model 51 Control Console work together to provide the features and flexibility that help reduce the time and cost of audio production. A complete system consists of a rack-mounted central controller, a desktop control console, and one or more talent amplifiers. The Model 51 is connected to the Model 50 with a 5-pin, 5-conductor, MIDI-type cable. The units communicate using system-exclusive MIDI messages.

Model 50

Model 50 Central Controller

The Model 50 is the connection point for all audio inputs and outputs, and provides power for the Model 51 and the talent amplifiers. Front panel LEDs indicate the functional status of the Model 51 and the talent amplifiers, and data flow from the Model 51.

Seven Stereo Line Inputs

The analog outputs of workstations, DAT recorders, optical CD recorders, CD players, cassette decks, or virtually any analog source can be connected to the Model 50's line inputs. The inputs accept balanced or unbalanced signals, and can be individually configured for either -10 dBV or $+4$ dBu operating levels. Each input can also be configured to accept a stereo or mono signal. Inputs 1 through 6 are on the back panel. For temporary patch convenience, input 7 is on the front panel.

Monitor Outputs

The Model 50 contains two sets of balanced stereo line level outputs for control room monitors and one set for studio monitors.

Dub Output

A balanced stereo line output is provided for dub (copy) use. The dub output is available from either the back or the front panel of the Model 50, and can be switched between -10 dBV and $+4$ dBu operating levels.

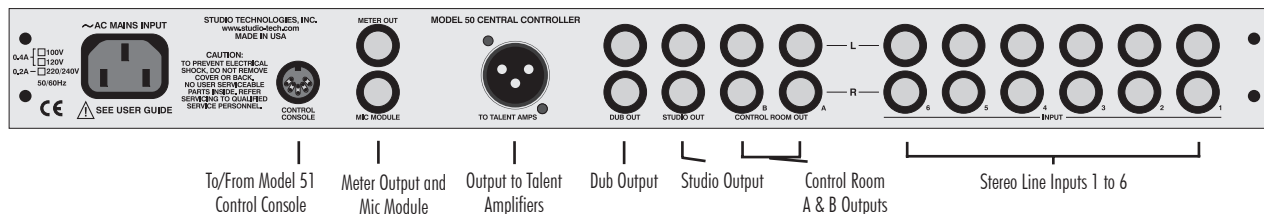
Meter Output

The meter output provides a stereo line-level signal that "follows" the source selected for the control room. The signal is not affected by the control room level circuitry, but does reflect the monaural function. The meter output is intended to be connected to VU- or PPM-type meter panels that contain series current-limiting resistors or input buffer amplifiers.

Headphone Output

The headphone (cue) output is designed to feed up to four StudioComm talent amplifier modules. The output is a 3-conductor XLR-type connector that provides power and left and right audio to the talent amplifiers. The Model 70 Interface is available to convert the talent amplifier output to separate left and right balanced line outputs.

Model 50 Central Controller Back Panel



Model 51

Model 51 Control Console

The Model 51 provides a small but comfortable command center. All routing, switching, and level adjustment functions are located on the control console. Numerous LEDs provide complete status information. The Model 51's unique configure mode provides extensive flexibility.

The Model 51 contains an electret condenser microphone located near the top of the console for convenient wide-range voice pickup. Inputs for remote talk to studio and talk to headphones switches are provided on the back panel.

Routing and Switching

Any of the seven line inputs can be sent to the control room monitors, studio monitors, headphones, or dub. The studio monitor can be set to follow either the control room or the headphone source. Level adjustment, mono, output select switching, and configurable dim are provided for the control room monitors. The studio monitors have a level adjustment and on/off controls.

Communications

Three separate communications functions, each with independent level control, are provided: talk to studio, talk to headphones, and slate. Talk to studio interrupts the studio source and sends voice audio. Talk to headphones either interrupts the headphone source, or blends voice audio with the headphone source. Slate has two operating modes: sending voice to the dub output, or sending voice to the dub output and the headphone output. If configured, slate can send a 50 Hz tone along with voice audio.

Model 35

Headphone Monitoring

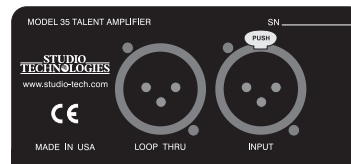
The StudioComm series also includes the Model 35 Talent Amplifier, a full-featured headphone amplifier (cue) module that drives high-impedance headphones (>150 Ω). The audio is loud and very clean. Up to four Model 35s can be connected to the Model 50 using a single 3-pin microphone-type cable; no external power source is needed.

Model 35 Talent Amplifier Front Panel



- Headphone output level control
- Switch between stereo and mono (L+R) output
- 2 Headphone Outputs

Model 35 Talent Amplifier Back Panel



- Connects to additional talent amplifiers
- Connects to Model 50 or another talent amplifier's loop thru connector

Specifications



Model 50 Central Controller

Audio Inputs: 7, stereo

Connectors: ¼-inch, 3-conductor phone jacks

Type: electronically balanced, compatible with balanced or unbalanced signals

Impedance: 24 k ohms

Nominal Input Level: -10 dBV or +4 dBu

Outputs: 2, control room; 1, studio

Type: electronically balanced, stereo

Maximum Output Level: +27 dBu into 10 k ohms, +26 dBu into 600 ohms

Frequency Response: 10 Hz-40 kHz +0/-0.5 dB (down 1 dB @ 80 kHz)

Distortion (THD+N): 0.03%

S/N Ratio: 87 dB (20 Hz-20 kHz)

Dub Output: 1, stereo

Type: electronically balanced

Nominal Output Level: -10 dBV or +4 dBu

Maximum Output Level: +27 dBu into 10 k ohms, +26 dBu into 600 ohms

Frequency Response: 10 Hz-40 kHz +0/-0.5 dB (down 1 dB @ 80 kHz)

Distortion (THD+N): 0.004%

S/N Ratio: 92 dB (20 Hz-20 kHz)

Slate Tone: 50 Hz sine wave

Meter Output: 1, stereo

Type: unbalanced

Nominal Output Level: +4 dBu

Maximum Output Level: +21 dBu into 10 k ohms

Frequency Response: 10 Hz-40 kHz +0/-0.5 dB (down 1 dB @ 70 kHz)

Distortion (THD+N): 0.004%

S/N Ratio: 92 dB (20 Hz-20 kHz)

Talent Amplifier Output: provides power and audio signals for up to four Model 35 Talent Amplifiers

AC Mains Requirement: 100, 120, or 220/240 V, ±10%, factory configured, 50/60 Hz

Dimensions (Overall):

19.00 inches wide (48.3 cm)

1.72 inches high (4.4 cm)

8.75 inches deep (22.2 cm)

Mounting: one standard rack space

Weight: 8.9 pounds (4.1 kg)

Model 51 Control Console

Output Data: generates MIDI system-exclusive messages

Internal Microphone: electret condenser

External Communications Contacts: normally open for talk to studio and talk to headphones

Dimensions (Overall):

7.4 inches wide (18.8 cm)

2.6 inches high (6.6 cm)

7.3 inches deep (18.5 cm)

Weight: 2.5 pounds (1.1 kg)

Model 35 Talent Amplifier

Load: intended for connection to one or two pairs of headphones with total impedance of 75 ohms or greater

Maximum Output Voltage: 16 V peak-to-peak into 150 ohms @ 1% THD+Noise

Distortion (THD+N): 0.03%

Frequency Response: 20 Hz-20 kHz ±0.5 dB

Dimensions (Overall):

4.2 inches wide (10.7 cm)

2.0 inches high (5.1 cm)

5.3 inches deep (13.5 cm)

Weight: 0.8 pounds (0.7 kg)

Model 70 Interface

Connectors: 3-pin XLR-type, 1 female, 3 male

Line Output: 1, stereo

Type: electronically balanced

Nominal Output Level: +4 dBu

Maximum Output Level: +20 dBu into 10 k ohms, +19 dBu into 600 ohms

Frequency Response: 20 Hz-20 kHz +0/-0.5 dB

Distortion (THD+N): 0.02%

Dimensions (Overall):

4.2 inches wide (10.7 cm)

2.0 inches high (5.1 cm)

5.3 inches deep (13.5 cm)

Weight: 0.8 pounds (0.4 kg)

Specifications subject to change without notice.

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