

recording | post-production | broadcast

Model 76 and Model 76D Central Controllers Model 77 and Model 71 Control Consoles



# 76 76D 77 71

The StudioComm Model 77 Control Console and Model 76 Central Controller with analog outputs or Model 76D Central Controller with digital outputs enable simple and effective monitoring of 5.1 surround and stereo audio material. Designed for recording, post-production, and broadcasting applications. System features include:

- Digital audio inputs
- Analog outputs (Model 76)
- Digital outputs (Model 76D)

- Downmix
- Channel mute/solo
- Level adjustment, reference level, and dim









# Model 77 and Model 71 Control Consoles

The Model 77 Control Console is the "command center." Designed to reside at an operator's location, it allows fingertip selection of all monitoring functions. Numerous LED indicators provide complete status information. Five buttons and associated LEDs enable quick selection of the surround and stereo input sources to be monitored. A large, easy-to-use rotary digital encoder provides control of the surround monitor output level in precise 0.5-dB steps. A 4-digit LED readout displays the level of the monitor output. The monitor output level can be adjusted via the rotary level control or pre-set using the reference level function.

The Model 71 Control Console works with the Model 77 to provide additional user locations with the most frequently desired functions: level adjustment, reference level, and dim.

# Model 76 and Model 76D Central Controllers Model 77 and Model 71 Control Consoles









## Model 76 and Model 76D Central Controllers

The Model 76 and Model 76D Central Controllers are rack mountable and offer two surround (5.1) and three stereo (2-channel) digital inputs that are compatible with AES3id sources. Sample rates of up to 192 kHz and bit depth of up to 24 are directly supported. Exceptional dynamic range and extremely low distortion ensure that the audio quality of each source is maintained.

The Model 76 Central Controller has eight analog balanced line-level outputs organized as:

- Surround (5.1)
- Stereo (2-channel)

The Model 76D Central Controller offers 16 digital output channels with transformer-coupled outputs and selectable impedance (75 ohms or 110 ohms):

- Pre-fade surround (5.1)
- Pre-fade stereo (2-channel)
- Post-fade surround (5.1)
- Post-fade stereo (2-channel)

The Model 76D's sync input allows support for video (bi-level and tri-level), word clock, DARS, and AES3id. Sample rate conversion is available on one input. In addition, up to 340 milliseconds of digital delay can be selected to compensate for processing delays in an associated video path.

One Model 76 or Model 76D Central Controller can support a combination of up to four Model 77 or Model 71 Control Consoles.

#### Model 76 Central Controller

General Audio			
Frequency Response	20 Hz to 40 kHz ±0.05 dB (192 kHz sample rate)		
Distortion (THD+N)	0.004%, ref 1 kHz, +4 dBu output		
S/N Ratio	86 dB, ref + 4 dBu output		
Dynamic Range	greater than 106 dB		
Crosstalk	104 dB @ 1 kHz; 90 dB @ 20 kHz, ref –1 dBFS input		
Digital Audio Inputs	five (18 audio channels)		
Configuration	two surround (5.1) and three stereo (2-channel)		
Туре	AES3id/SMPTE 276M (75 ohms, unbalanced)		
Connectors	BNC		
Supported Sample Rate	32, 44.1, 48, 88.2, 96, 176.4, and 192 kHz		
Word Length	24 bits maximum		
Sync Source	all inputs independently self-clocking		
Analog Monitor Outputs			
Configuration	organized as one surround (5.1) and one stereo (2-channel)		
Туре	electronically balanced		
Maximum Level	+26 dBu into 600 ohms or greater		
Connector	25-pin D-subminiature female		
Downmix	5.1 to stereo, stereo to mono		
Stereo to Mono Bandpa	ss Filter		
Response	−3 dB @ 100 Hz and 5 kHz, nominal, 12 dB/octave		
Control Console Interfac	ce		
Туре	RS-485, 115.2 kbit/s, 8-N-1		
Connector	9-pin D-subminiature female		
Power	12 volts DC, 200 milliamperes maximum		
Remote Control Inputs	two		
Functions	remote mute all, remote dim		
AC Mains			
Requirement	100, 120, or 220/240 V, ±10%, factory configured, 50/60 Hz, 30 watts maximum		
Connector	3-blade, IEC 320 C14-compatible (mates with IEC 320 C13)		
Mounting	one space in a standard 19-inch rack		
Dimensions	19.00 in. wide (48.3 cm) x 1.72 in. high (4.4 cm) x 8.75 in. deep (22.2 cm)		
Weight	8.8 pounds (4.0 kg)		

### Model 76D Central Controller

General Audio			
Supported Sample Rates	32, 44.1, 48, 88.2, 96, 176.4, and 192 kHz		
Word Length	24 bits maximum		
Internal Processing	32 bits		
Dynamic Range	134 dB		
Digital Audio Inputs	five (18 audio channels)		
Configuration	two surround (5.1) and three stereo (2-channel)		
Туре	AES3id/SMPTE 276M (75 ohms, unbalanced)		
Connectors	BNC		
Sample Rate Conversion	available on Stereo Input C		
Sync Input			
Sources	video (bi-level, tri-level), word clock, DARS (AES11), AES3id		
Jitter	4 ns (p-p) maximum		
Connector	BNC		
Termination	75 ohms, selectable on/off		
Digital Monitor Outputs	four (16 audio channels)		
Configuration	organized as two surround (5.1) and two stereo (2-channel)		
Туре	AES3id/SMPTE 276M (75 ohms) or AES3 (110 ohms), selectable		
Connector	25-pin D-subminiature female		
Configurable Delay	0 to 340 milliseconds @ 48 kHz sample rate		
Downmix	5.1 to stereo, stereo to mono		
Control Console Interface			
Туре	RS-485, 115.2 kbit/s, 8-N-1		
Connector	9-pin D-subminiature female		
Power	12 volts DC, 500 milliamperes maximum		
Remote Control Inputs	two		
Functions	remote mute all, remote dim		
AC Mains			
Requirement	100 to 230 V, 50/60 Hz, 15 watts maximum		
Connector	3-blade, IEC 320 C14-compatible (mates with IEC 320 C13)		
Mounting	one space in a standard 19-inch rack		
Dimensions	19.00 in. wide (48.3 cm) x 1.72 in. high (4.4 cm) x 7.00 in. deep (17.8 cm)		
Weight	6.2 pounds (2.8 kg)		

#### Model 77 and Model 71 Control Consoles

up to a total of four Control Consoles can be connected to a Central Controller			
ypically provided by Central Controller)			
12 volts DC, 100	milliamperes maximum		
12 volts DC, 35 milliamperes maximum			
face			
RS-	RS-485, 115.2 kbit/s, 8-N-1		
9-pir	9-pin D-subminiature female		
7.20 in. wide (18.3 cm) x 2.20 in. high (5.6 cm)	7.20 in. wide (18.3 cm) x 2.20 in. high (5.6 cm) x 5.40 in. deep (13.7 cm)		
3.20 in. wide (8.1 cm) x 2.20 in. high (5.6 cm)	3.20 in. wide (8.1 cm) x 2.20 in. high (5.6 cm) x 4.1 in. deep (10.4 cm)		
	1.7 pounds (0.8 kg)		
	0.8 pounds (0.4 kg)		
	pically provided by Central Controller)  12 volts DC, 100  12 volts DC, 35 face  RS- 9-pir  7.20 in. wide [18.3 cm] x 2.20 in. high [5.6 cm]		

At Studio Technologies we design and manufacture dependable, high-performance audio products for demanding professionals. For over 30 years we have never wavered in our commitment to building rock-solid products and offering outstanding customer service. Our products are used worldwide in broadcast, studio, stadium, and corporate environments.



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