1700C

Six Channel Mainframe Mixer/Preamplifier



General Product Description

The **Electro-Voice® 1700C** Mixer/Preamplifier is a six channel user-configurable mainframe preamplifier. By selecting from the large array of system component options, the **1700C** can become a six-in/one-out microphone mixer or a one-in/six-out distribution preamplifier.

The basic mainframe has six ports which can be input or output. When configuring with **Electro-Voice's 1781A** or **1781AT** Programmable Input modules, the mainframe becomes a powerful six channel mixer. Multiple **1700C** mainframes can be linked together for situations where more then six input/output ports are required.

Built-in features include a top panel trap-door for easy access into the unit, compressor/limiter, low and high frequency shelving equalizers, muting, remote volume control capability, and a tone generator which produces four different sounds.

Input Modules: The **Electro-Voice 1781A/1781AT** Programmable Input module accepts either mic or line level signals through a wide variety of connector interfaces. Further detail on these modules is given later in this document.

Output Modules: The **Electro-Voice 1783** Line Output module allows the user to interface with other professional equipment. Further detail on this module is given later in this document.

The **Electro-Voice** model **1700C** mixer/preamplifer systems respond to most design tasks with the ease and versatility of systems costing much more. As a result, it *is the choice* for use in professional installations requiring high quality, flexibility in design, and low cost.

Architects' and Engineers' Specifications

The mixer/preamplifier shall have six configurable ports and be capable of operating from 100, 120, 200, 220, or 240 Vac, 50/60 Hz line, or from ± 48 VDC. Each port shall be usable with a microphone or other high level device. The mixer/preamplifier mainframe shall include a compressor/



limiter, low and high frequency shelving equalizers, and a tone generator capable of producing general purpose and emergency warning signals.

The preamplifier shall meet the following performance criteria: Frequency Response: 30 Hz to 20 kHz, \pm 1 dB (main output). Source Impedance: 150 ohms to 250 ohms nominal with a microphone preamplifier, 600 ohms with a bridging transformer, 150 ohms to 600 ohms with a line matching transformer, and greater than 30 kohms with a tape preamplifier. Equivalent Input Noise: <-120 dBr with a low impedance microphone preamplifier. Output Noise: <-85 dBm (with all controls off).

The mixer/preamplifier shall be rack mountable and finished in black. The amplifier's dimensions shall be 51/4" (H) x 19" (W) x 121/4" (D) and its net weight shall be 24.2 lbs.

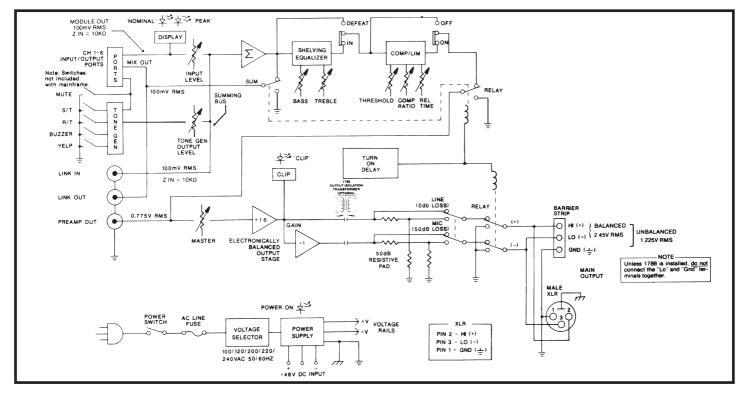
The plug-in accessory modules shall be the **1781A** or **1781AT** Input modules and the **1783** Line Output module (the **1786** Output Isolation transformer is used with the **1783** Line Output module). The accessory transformer usable with the modules shall be the **1786** Output Isolation transformer. The connector subassemblies shall be the **1791** female XLR, **1792** male XLR, **1793** dual phono, and the **1794** 5-lug screw terminal connector.

The mixer/preamplifier shall be the Electro-Voice Model 1700C.

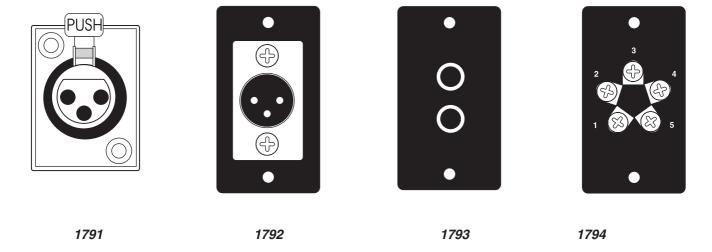


Specifications:	
Rated Output Level: (Ref. 1 kHz)	Rear Panel Controls:
Main Output: (balanced, LINE position)	Tone Generator:
Signal-to-Noise Ratio:	Front Panel: 6 - Green LED's (Nominal Input level), 6 - Red
Main Output:>85dB (rated output, A-weighted, EQ defeated, compressor/limiter off) Preamp Output:>75 dB	LED's (Peak Input level), 1 - Red LED (Main Output clip), 1 - AC Power ON Connectors:
(rated output, A-weighted, EQ defeated, compressor/limiter off) Link Output:>75 dB (rated output, A-weighted)	Inputs: Link Input:
Minimum Load Impedance:	Outputs:
Main Output: Line Level balanced:	Main Output:
Treble: ± 12 dB at 10 Hz	Power Requirements:
Compressor/Limiter: Feedforward Topology	(Ref. 1 kHz, rated output with no modules installed)
Threshold:	AC Mains:
Compression Ratio:	Power Consumption and Heat Produced: 17 watts consumed, 57.5 BTU/hour
Tone Generator: Electronically produced	Operating Temperature Range: Up to 50°C (122°F)
Tones:Buzzer, siren, single-tone chime, & repeating tone chime Control: . All tones are initiated by external switch closures	Dimensions:
Level Adjustment:Rear panel Front Panel Controls:	Width: 19 inches (48.3 cm) Height: 5¼" inches (13.3 cm) (3 standard rack units) Depth: 13 inches (33.0 cm)
Input:	Net Weight:
1 - EQ In/Defeat switch	Finish Color: Black
Output:	Associate included with Mainfrage.
Compressor/Limiter:	Accessories included with Mainframe: Operating/Service Instructions, 1780A/AT, 1781A/AT and 1783 4 - Rubber Feet (installed) 1 - System Configuration Label installed on top cover
Miscellaneous:	1 - International 220/240 VAC voltage decal1 - International Fuse decal

1 - Fuse for International use1 - Rack mount hardware kit



1700C Block Diagram



Connectors for use with 1783

USA 12000 Portland Ave South, Burnsville, MN 55337, Phone: 952-884-4051, FAX: 952-884-0043

Canada 705 Progress Avenue, Unit 46, Scarborough, Ontario, Canada, M1H2X1, Phone: 416-431-4975, 800-881-1685, FAX: 416-431-4588 Keltenstrasse 11, CH-2563 IPSACH, Switzerland, Phone: 41/32-331-6833. FAX: 41/32-331-1221 Switzerland

Germany Hirschberger Ring 45, D94315, Straubing, Germany, Phone: 49 9421-706 392, FAX: 49 9421-706 287

Parc de Courcerin, Alle Lech Walesa, Lognes, 77185 Marne La Vallee, France, Phone: 33/1-6480-0090, FAX: 33/1-6480-4538
Unit 23, Block C, Slough Business Park, Slough Avenue, Silverwater, N.S.W. 2128, Australia, Phone: 61/2-9648-3455, FAX: 61/2-9648-5585 France Australia Hong Kong Unit E & F, 21/F, Luk Hop Industrial Bldg., 8 Luk Hop St., San PO Kong, Kowloon, Hong Kong, Phone: 852-2351-3628, FAX: 852-2351-3329

Japan

2-5-60 Izumi, Suginami-ku,Tokyo, Japan 168, Phone: 81-3-3325-7900, FAX:81-3-3325-7789 3015A Ubi Rd 1, 05-10, Kampong Ubi Industrial Estate, Singapore 408705, Phone: 65-746-8760, FAX: 65-746-1206 Singapore Mexico Av. Parque Chapultepec #66-201, Col. El. Parque Edo. Mex. 53390, Phone: (52) 5358-5434, FAX: (52) 5358-5588 UK 4, The Willows Centre, Willow Lane, Mitcham, Surrey CR4 4NX, UK, Phone: 44 181 640 9600, FAX: 44 181 646 7084

Africa, Mid-East 12000 Portland Ave South, Burnsville, MN 55337, Phone: 952-887-7424, FAX: 952-887-9212

12000 Portland Ave South, Burnsville, MN 55337, Phone: 952-887-7491, FAX: 952-887-9212

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U.S.A. and Canada only. For customer orders, contact the Customer Service department at 800/392-3497 Fax: 800/955-6831 For warranty repair or service information, contact the Service Repair department at 800/685-2606 For technical assistance, contact Technical Support at 866/78 AUDIO Please refer to the Engineering Data Sheet for warranty information. Specifications subject to change without notice.