1781A/AT

Mic/Line Input Module



COMMERCIAL

General Product Description

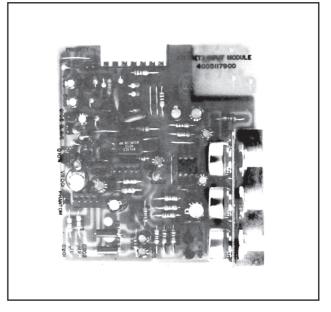
The Electro-Voice® 1781A programmable input module accepts either mic or line level signals through a wide variety of connector interfaces. Standard features include an electronically balanced input stage with adjustable gain, continuously variable high and low pass filters, RFI protection, 48 volt phantom powering, two levels of muting, and remote control capability. Programming is accomplished with plug-in jumpers which may select phantom power (on or off) and mute priority or slave. Electro-Voice® also offers the 1781AT, a programmable input module with a 1785A input isolation transformer installed, which provides an additional 10 dB of gain for improved sensitivity.

The 1781A/AT is designed for use with the Electro-Voice® 1700C Mixer/Preamplifier, and 1707C/ 1715C Mixer/Amplifiers. Four different input connectors are available: the 1791 Female XLR, 1792 Male XLR, 1793 Dual Phono, and 1794 5-Lug Terminal Connector.

Architects' and Engineers' Specifications

The input preamplifier modules shall have phantom power capability, continuously variable high and low pass filters, adjustable gain, and L + R stereo summing. A second model shall also feature a 600 ohm input transformer. In addition, the modules shall be fully compatible with the 1700-series mixer/preamplifier and mixer/amplifier mainframes, and accept any one of the 1790-series input connectors.

The input preamplifier modules shall meet the following performance criteria: Gain: 50 dB (60 dB w/1785A Input Transformer), continuously variable. Frequency Response: 50 Hz to 20 kHz, ±1 dB. Equivalent Input Noise: <120 dB below rated output voltage with a 200 ohm input termination.



Total Harmonic Distortion (THD): <0.05%, 20 Hz to 20 kHz (1781A) or <0.2%, 50 Hz to 15 kHz (1781AT) at minimum gain. High Pass Filter Corner Frequency: 320 Hz. Low Pass Filter Corner Frequency: 5 kHz. High and Low Pass Filter Slope: 6 dB per octave.

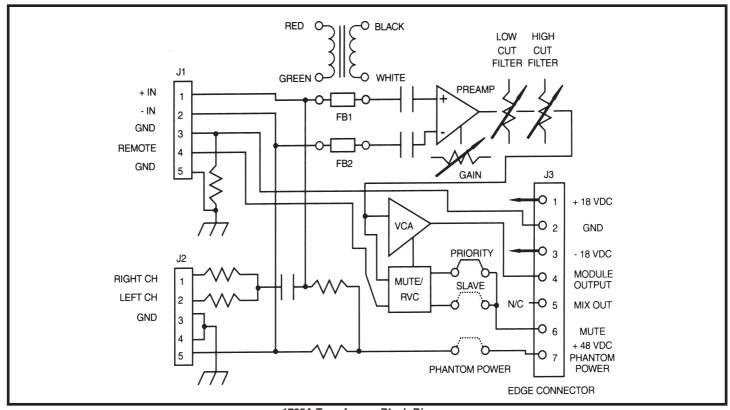
The input preamplifier shall be the Electro-Voice® model 1781A or 1781AT.

To minimize risk of distortion resulting from transformer saturation use the 1781A to accept strong line levels from cassette decks and CD players.

Specifications: Gain: 0 dB to 50 dB, continuously variable Input Sensitivity: (Ref. 1 kHz, 0 dBr = 100 mVrms output, 10 kohm load) Without 1785A: 0.3 mVrms to 100 mVrms (-50 dBr to 0 dBr) With 1785A: 0.1 mVrms to 30 mVrms (-60 dBr or -10 dBr) Input Impedance: (Ref. 1 kHz) Electronically balanced: 8 kohm Transformer balanced: 600 ohm Frequency Response: (Ref. 1 kHz, 100 mVrms output, 10 kohm load) Without 1785A:±1 dB (Minimum gain): 20 Hz to 20 kHz ±1 dB (Maximum gain): 50 Hz to 20 kHz With 1785A:±1 dB (Minimum gain): 20 Hz to 20 kHz±I dB (Maximum gain): 50 Hz to 15 kHz

Total Harmonic Distortion (THD): (Ref. 1 kHz, 100 mVrms output, minimum gain, 10 kohm load, 30 kHz low pass filter) 20 Hz to 20 kHz:
Equivalent Input Noise: <-120 dBr (Ref. 0 dBr= 100 mVrms output, 10 kohm load, 200 ohm input termination maximum gain, A-weighted)
High Pass Filter (Low Cut): (Ref., 100 mVrms output, minimum gain, 10 kohm load) FI:
Low Pass Filter (High Cut): (Ref. 100 mVrms output, minimum gain, 10 kohm load) Fh: 5 kHz (>6 dB at 10 kHz) Slope: 6 dB/oct (20 dB/dec)
Attenuation: (Ref. 1 kHz, 100 mVrms output, 10 kohm load)



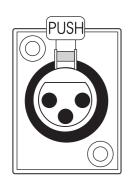


1785A Transformer Block Diagram (Not sold separately - Available only on the 1781AT)

1785A Specifications: -Impedance Ratio: 600 ohm : 10 kohm (Primary: Secondary) Frequency Response: (Ref. 1 kHz, 100 mVrms output) ±1 dB:50 Hz to 15 kHz

Total Harmonic Distortion (THD): (Ref. 1 kHz, 100 mVrms output)

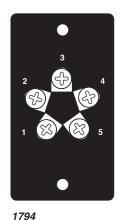
50 Hz to 20 kHz:< <0.2% Insertion loss:<1 dB (Ref. 1 kHz, 100 mVrms output)



1791







Connectors for use with 1783

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

705 Progress Avenue, Unit 46, Scarborough, Ontario, Canada, M1H2X1, Phone: 416-431-4975, 800-881-1685, FAX: 416-431-4588 Canada

Switzerland Keltenstrasse 11, CH-2563 IPSACH, Switzerland, Phone: 41/32-331-6833. FAX: 41/32-331-1221 Hirschberger Ring 45, D94315, Straubing, Germany, Phone: 49 9421-706 392, FAX: 49 9421-706 287 Germany

Parc de Courcerin, Alle Lech Walesa, Lognes, 77185 Marne La Vallee, France, Phone: 33/1-6480-0090, FAX: 33/1-6480-4538 France Australia

Unit 23, Block C, Slough Business Park, Slough Avenue, Silvenvater, N.S.W. 2128, Australia, Phone: 612-9648-3458. FAX: 612-9648-5585
Unit E & F, 21/F, Luk Hop Industrial Bildg., 8 Luk Hop St., San PO Kong, Kowloon, Hong Kong, Phone: 852-2351-3628, FAX: 852-2351-3329

Hong Kong

2-5-60 Izumi, Suginami-ku,Tokyo, Japan 168, Phone: 81-3-3325-7900, FAX:81-3-3325-7789 Japan

3015A Ubi Rd 1, 05-10, Kampong Ubi Industrial Estate, Singapore 408705, Phone: 65-746-8760, FAX: 65-746-1206 Av. Parque Chaputtepec #66-201, Col. El. Parque Edo. Mex. 53390, Phone: (52) 5358-5434, FAX: (52) 5358-5588 Mexico 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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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.