Dugan Style Automatic Microphone Mixer

New!



Features

- Automatic mixing with Dugan Speech System
- 6 Mic/Line inputs with selectable gain structures
- 4 Configureable high level direct outputs
- Phantom power switchable on each mic input
- Clip indicator for all inputs
- Assignable group mute on mic/line inputs
- 12 segment LED metering of output level
- Remote gain control capability on master output
- Linkable

Applications

School Board Meetings Council Chambers Courtrooms Corporate presentation Houses of Worship Board Rooms Legislative Chambers Meeting Rooms

The Protech Audio Model 2014 Automatic Mixer is designed specifically for venues requiring high quality sound reinforcement and recording of proceedings. The unit is designed around the patented Dugan Speech System.

Much like an experienced console operator, the Dugan algorithm allows turning up the gain on an active channel, while simultaneously attenuating unused channels. By subtracting additional gain from unused channels, the unit reduces echo and redistributes that gain to active channels. This allows greater gain-before-feedback than gated mixers.

Unlike other mixers with direct outputs the model 2014 provides enough gain to each direct output to properly drive digital recording devices with analog inputs. The gain is adjustable to insure proper recording levels. Each direct output can be configured to provide any combination of inputs.

Engineers at Protech Audio have worked directly with Dan Dugan to develop circuitry that accomplishes his algorithm economically and accurately, bringing transparent automixing to smaller installations.

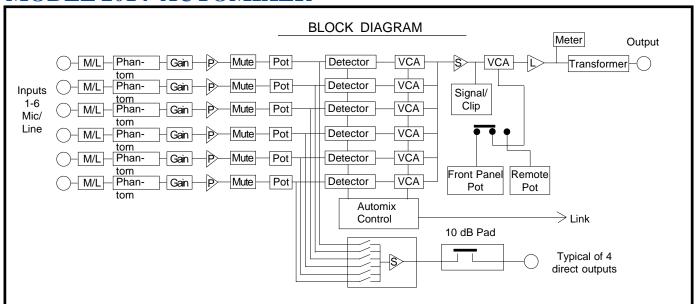
For larger installations, Protech Audio manufactures the Models 2000 and 2000-C Automixers.

www.protechaudio.com



Engineering Data

MODEL 2014 AUTOMIXER



ARCHITECT'S & ENGINEER'S SPECIFICATION

The automatic mixer shall use the Dugan Speech System of automatic mixing.

The automatic mixer shall be constructed in a 1RU chassis, with complete electronics section removable from the front of the chassis, without the need to remove wiring. The unit shall be designed to mount in a standard 19" EIA rack. The auto-mixer shall have a UL recognized power supply.

Each automixer chassis shall accept up to 6 balanced microphone or line level signals. The mic/line inputs shall be switchable between microhone or line level operation, and gain setting jumpers to allow adjustment of input gain structure. The automixer shall allow linking of 2 units.

The automixer shall have 4 configureable line level direct outputs.

Each direct output shall be capable of providing any combination of the 6 inputs. The gain of each direct output shall be configureable to insure sufficient output level.

The automixer shall have a visual indicator for signal presence and clipping, that monitors all inputs. The automixer shall also have a 12 segment LED bar meter to indicate detailed output level.

The automixer shall have provision for assigning mic/line inputs to a group mute bus, via a DIP switch. A closure to ground shall activate the group mute function.

The master output shall be transformer isolated. The master output level shall be controllable via a front panel potentiometer, or a remotely mounted potentiometer.

The automatic mixer shall be:

Protech Audio Corp. Model 2014

SPECIFICATIONS, MODEL 2014

INPUT SECTION **OUTPUT SECTION** 30-50dB, switch selectable, +24dBv Input Gain Micro-Maximum Output Masplus front panel variable -10/0 Relative to Master phone..... ter..... mix gain control Slide Switch Controlled Direct Output 0-20dB, Adjustable 0.07% Maximum Level..... 0- 15dB Master/Slave Operation.....-123dBV (150 Ohm Input Gain 70dB. Min. Distortion + N.....Source) Line..... Noise......30Hz To 20KHz, <u>+</u>0.1dB -10dBvVMic. +20dBv Line Mute Attenuation......1K Ohms Nominal Mic, Frequency Response...... 0 To +70 Degrees C 15K Ohms Line Operating Temperature...... 0.5 Amps/120VAC Maximum Input **DIP Switch Connection To Bus** Power Requirement...... 1.75"H x 19"W x 10.5"D Level..... 15VDC Dimensions......Approx. 11 Lbs. Input Imped-+12dB, To -75dB ance..... Shipping Weight.....

