



## ProSpec™ 1U4M4S and ProSpec™ 1U8M Audio Mixers

### FEATURE OVERVIEW:

- Live Performance mixers designed to operate in Mono, Stereo, or LCR applications.
- ProSpec-1U4M4S: 4 Channels of Professional Quality Burr-Brown Microphone Pre-Amplifiers and 4 balanced stereo line input channels.
- ProSpec-1U8M: 8 Channels of Professional Quality Burr-Brown Microphone Pre-Amplifiers.
- Balanced Left, Right, and Mono (center) XLR outputs use THAT Corporation OutSmarts output devices.
- All front panel switches are internally illuminated.
- Individual Solo switch on each mono and stereo input channel.
- Monitor headphone level control with 1/4" and 1/8" headphone connectors and rear panel APB mixer link connector.
- Each input channel is assignable to Left-Right OR Mono (Center) mix bus
- Level and Pan controls on Mono input channels / Level and Balance controls on Stereo input channels.
- Mono input channels have 48-Volt Phantom Power, High Pass Filter, Polarity Reverse and Assignment switches.
- Stereo input channels have Mute, Polarity Reverse, and Assignment switches.
- Individual Left, Right, and Mono (Center) Metering.
- Front panel Left-Right sum switch
- Mono input channel use Neutrik XLR/1/4" combo connectors and TRS insert points
- Stereo input use individual high quality 1/4" balanced left and right input connectors.
- Low phase-shift, wide bandwidth electronic design derived from APB's Spectra and ProDesk products.



## ProSpec-1U4M4S Rear Panel



## ProSpec-1U8M Rear Panel



# ProSpec™ Specifications

### Mono Input Channel

#### **Balanced Mic Input (XLR Input of Combo Connector)**

Mic Gain (Max): 60 dB  
Mic Input Z: 2k  $\Omega$   
Mic EIN: -127 dBu @ 60dB gain, 150  $\Omega$  source  
THD + Noise (Mic input to Main Output)  
<0.005% @ 15dBu Output  
Bandwidth @ 40dB Gain >200kHz (ref to 1kHz)  
Microphone Input to Main Output  
@ 60dB Gain approx 160 kHz (ref 1kHz)  
Phase response: +/-11 degrees, 20Hz to 20kHz (ref 1kHz)  
HPF: 75Hz @-18dB/Octave  
Unity Gain approx 2 o'clock Pot rotation

#### **Balanced Line Input (TRS input of Combo Connector)**

Line Gain (Max): 42 dB  
Line Input Z: >10k  $\Omega$   
THD + Noise (Line input to Main Output)  
<0.01% @ 15dBu Output  
Bandwidth approx 160kHz (ref to 1kHz)  
Line Input to Main Output  
Phase Response: +1.5/-17.5 degrees 20Hz to 20kHz (ref 1kHz)  
Unity Gain approx 10 o'clock Pot rotation  
10 dB

### Stereo Channel

#### **Balanced Line Input (TRS)**

Max Gain: 20 dB  
Line Input Z: >10k  $\Omega$   
THD + Noise (input to Main Output)  
<0.005% @ 15dBu Output  
Bandwidth: >200kHz (ref to 1kHz)  
Input to Main Output  
Phase Response +3/-9 degrees,  
20Hz to 20kHz (ref 1kHz)  
HPF: 40Hz @-18dB/Octave

Unity Gain approx 10 o'clock Pot rotation  
10 dB Gain at approx 2 o'clock Pot rotation

### Outputs

Balanced XLR using OutSmarts® Driver ICs  
(also capable of unbalanced operation)  
Max Output Level: +26dBu (into 600 ohms or greater)  
Bal Output Z: 50  $\Omega$   
Residual Output Noise: < -95 dBu \*

\*All channels unassigned and channel sends down, Master at unity (2 o'clock)

