

# TRIDENT SERIES 8T CONSOLE



## CONTROL LAYOUT AND FUNCTIONALITY

XLR MICROPHONE  
INPUT

BALANCED  
LINE LEVEL INPUT

BALANCED  
TAPE INPUT

CHANNEL INSERT POINT  
(TIP=SEND RING= RETURN)

CHANNEL DIRECT OUTPUT  
(BALANCED)

MICROPHONE GAIN  
ADJUSTABLE FROM +10  
TO +60dB

LINE INPUT GAIN  
ADJUSTABLE FROM -15  
TO +15dB

LEVEL CONTROL FOR  
AUX BUSS 1 OR 3

LEVEL CONTROL FOR  
AUX BUSS 2 OR 4

LEVEL CONTROL FOR  
AUX BUSS 5 TO 8

MONITOR/AUX 7&8  
PAN CONTROL

MONITOR/AUX7&8  
LEVEL CONTROL

HI SHELF TURNOVER  
FREQUENCY 8KHz OR 12KHz

HI MID FREQUENCY  
ADJUSTABLE FROM  
1K TO 15K

LO MID FREQUENCY  
ADJUSTABLE FROM  
100Hz TO 1K5

50Hz LO-CUT FILTER

LO SHELF TURNOVER  
FREQUENCY 60Hz OR 120Hz

CHANNEL PAN  
CONTROL

100mm CHANNEL FADER

CHANNEL IDENTIFICATION  
AND WRITING STRIP

TRACK BUSS OUT 1-8  
(BALANCED 1/4" jack)

STEREO RETURN INPUTS 1-4  
(BALANCED 1/4" jack)

AUX SEND MASTER OUTPUTS  
(BALANCED 1/4" jack)

ANALOGUE VU METERS

TRACK BUSS MASTERS

This section contains the master level controls for each of the 8 tracking busses.

There is a solo function for every track buss and a L/R enable function for each pair of busses (1&2,3&4,5&6,7&8)

For example:  
When the L/R function for buss 1&2 is enabled, it will connect buss 1 to the left buss and buss 2 to the right buss.

This L/R enable function also changes the operation of the solo switch as follows:

With the L/R right button pressed, buss 1 solo will only appear in the left monitor and buss 2 in the right. This enables the user to solo in stereo by hitting both solos.

When the L/R button is not engaged the solo'd signal for each buss will appear in both monitors equally.

STEREO RETURNS

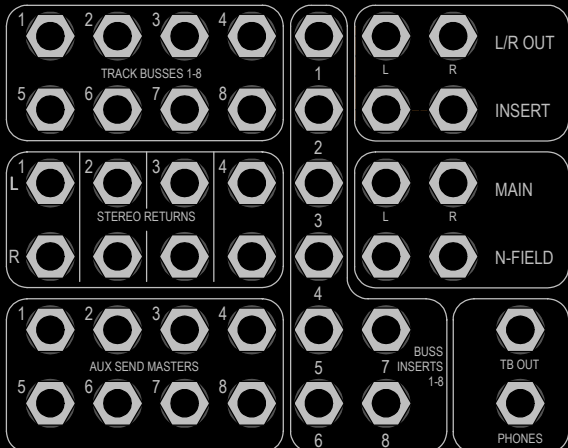
The 8T console features 4 stereo return inputs, 2 of which can be used simultaneously.  
Return 1/2 level control also features a dedicated "Playback" function which mutes the output from the console and feeds the selected stereo playback source directly to the monitors and the option to connect stereo Return 1/2 to the L/R buss instead of just the monitors. Return 3/4 is permanently routed to the L/R buss.

MONITORING SECTION

'Monitor master' controls the master level of the dedicated monitor buss. It also features a L/R enable switch to enable the Monitor buss to be used as an additional mix buss.

A 'Mono' function is provided for checking phase in stereo program and mono compatibility.

The control room master controls the final output to the speaker system(s). 2 speaker select switches are included for main and nearfield monitoring, both outputs can be used simultaneously.



MAIN L/R BUSS OUTPUTS  
(BALANCED 1/4" jack)

MAIN SPEAKER OUTPUTS  
(BALANCED 1/4" jack)

NEARFIELD SPEAKER OUTPUTS  
(BALANCED 1/4" jack)

TALKBACK OUTPUT  
(BALANCED 1/4" jack)

HEADPHONE OUTPUT

TRACK BUSS INSERT POINTS  
TIP=SEND RING=RTN

METER SELECT FUNCTION:

The main VU meters can be switched to monitor the main L/R buss, track busses in pairs (1&2,3&4,5&6,7&8) and stereo 2-track return 1. Meters are set for 0VU = +4dBu. A -10 dB switch is provided for compatibility with digital metering levels.

MASTER AUX SEND SECTION

This section contains the master auxiliary send level controls for each of the 8 Aux busses.

Each aux master has a solo switch. When one of these 8 solo switches are depressed, the signal is heard equally across both left and right control room monitor outputs. In addition, the level of the solo'd signal is displayed on the main VU meters.  
The red 'SOLO' indicator between the VU meters will also light when this or any other solo switch is depressed.

A convenient writing strip area is also provided here for naming aux devices and/or headphone feeds.

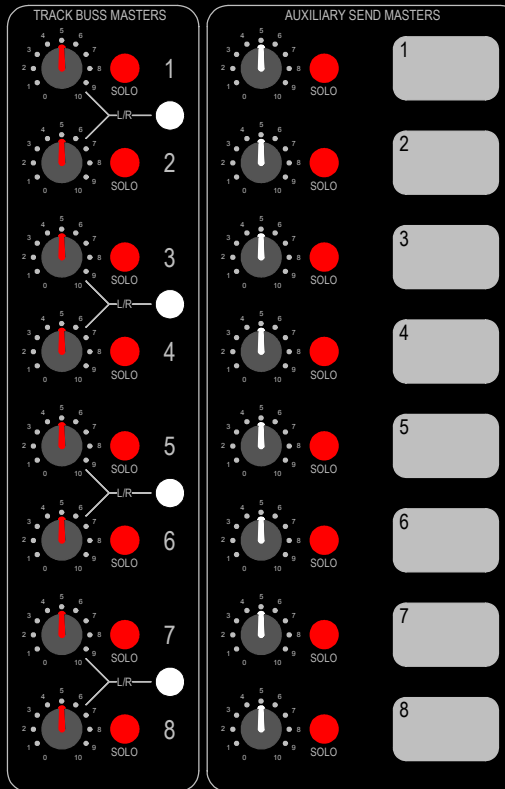
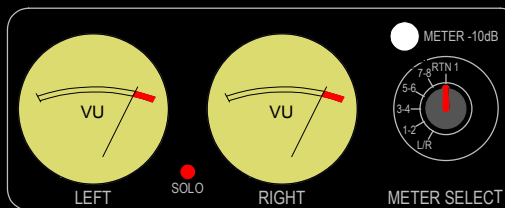
SOLO MASTER LEVEL

HEADPHONE LEVEL

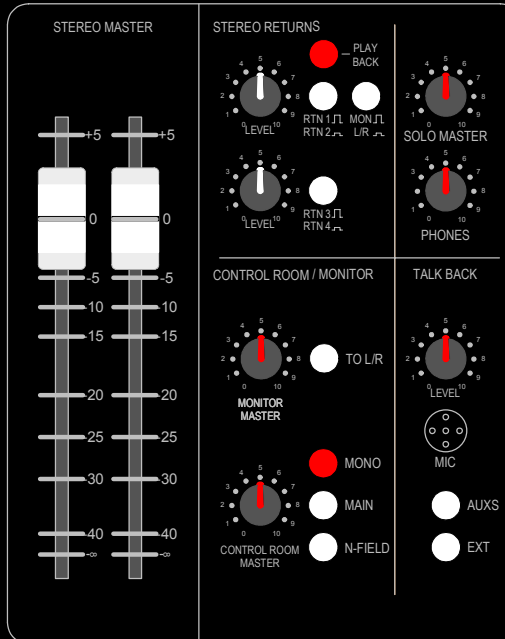
TALKBACK SECTION:

This section provides a built-in Talkback microphone with level control. Talkback signal can be sent to the aux busses as well as an external destination.

Talkback is enabled when 1 or both of the destination buttons is held down.

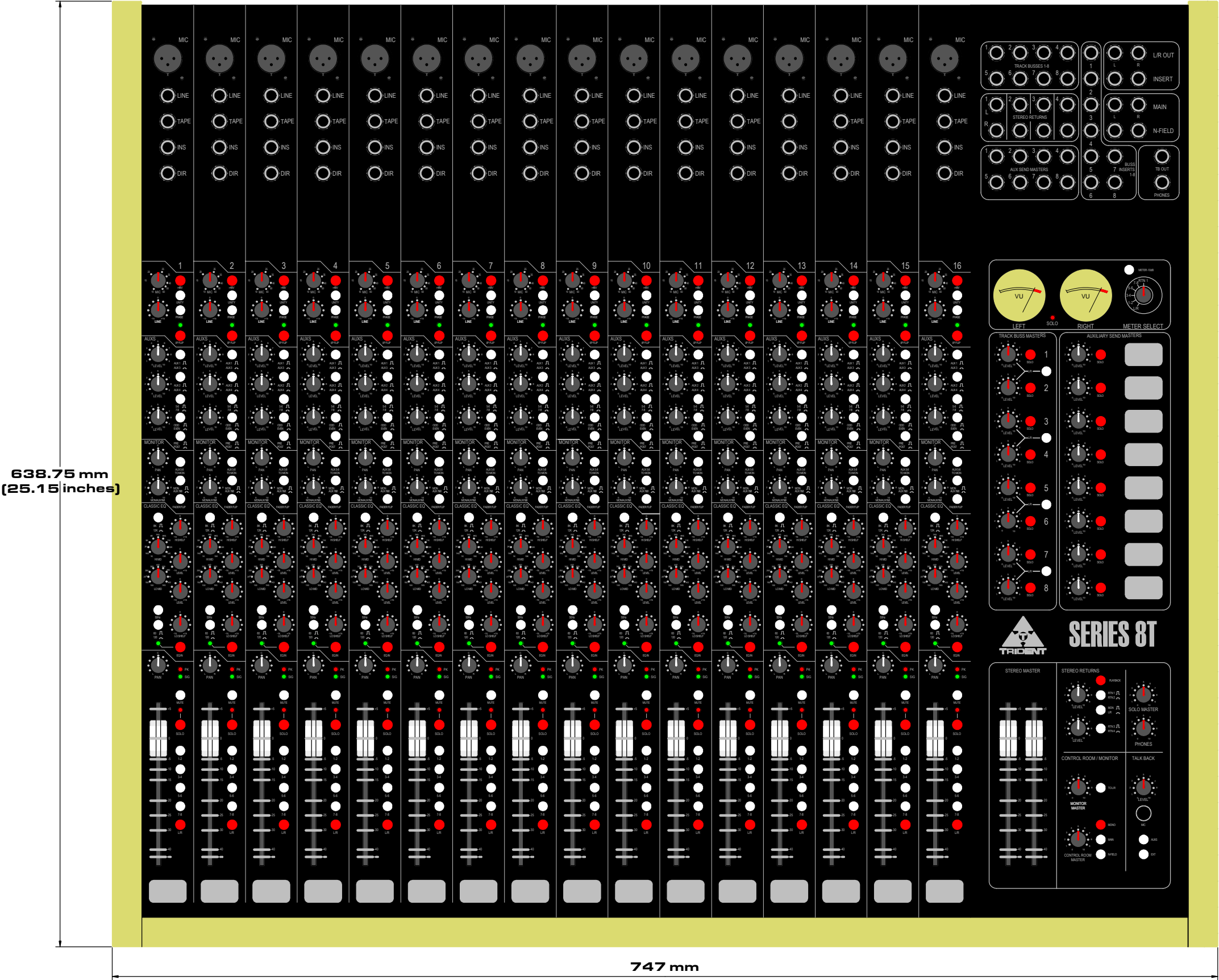


## SERIES 8T

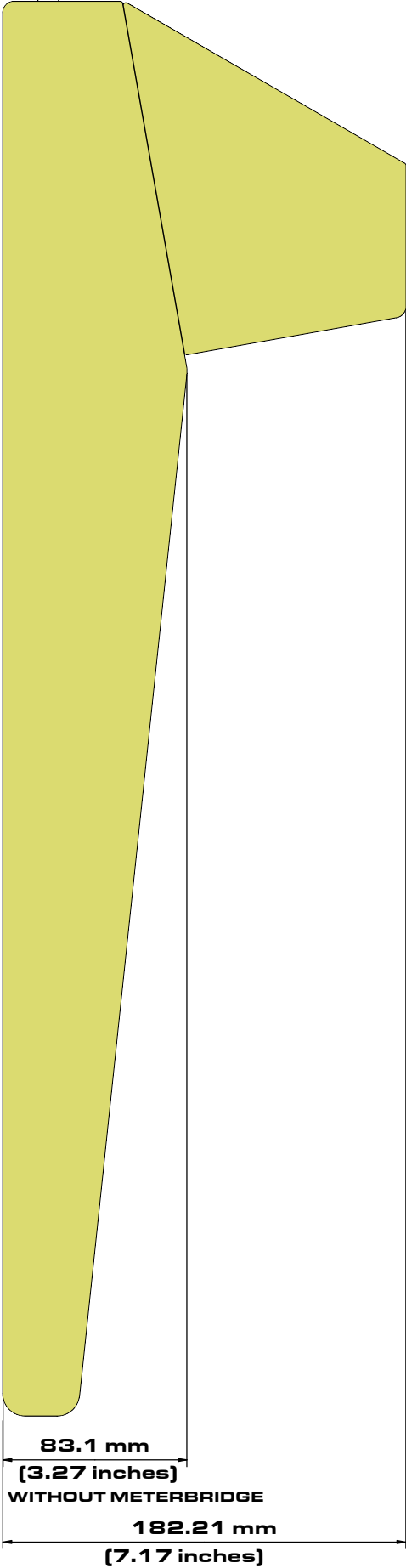


MAIN L/R MASTER FADERS

OVERHEAD VIEW OF 8T CONSOLE  
[WITHOUT METERBRIDGE]



SIDE VIEW OF 8T CONSOLE  
[WITH METERBRIDGE]



MODEL	WIDTH
8T - 16 Channel	747mm
	29.41 inches
8T - 24 Channel	987mm
	38.85 inches
8T - 32 Channel	1267mm
	49.88 inches

<b>TRIDENT AUDIO Ltd.</b>		<b>REV. 1</b> <b>Feb. 2006</b>
<b>8T CONSOLE</b>		
<b>DIMENSION DIAGRAM</b> COPYRIGHT (C) TRIDENT AUDIO Ltd. 2006		



# Technical Specification

## TRIDENT SERIES 8T CONSOLE

### Input Impedance

Microphone:	>1.2 k $\Omega$ electronically balanced
Line & Tape:	>10 k $\Omega$ electronically balanced

### Output Impedance

All outputs:	>100 $\Omega$ electronically balanced
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### Gain

Microphone:	+70 dB [input to group output]
Line:	+25 dB [input to group output]

### Noise

Microphone:	<- 128 dBu e.i.n ref 200 $\Omega$ , 20Hz to 22kHz Line:
	<- 89 dBu [Eq in, direct output] wideband

### Maximum Levels

Microphone Input:	+22 dBu wideband
Line Input:	+22 dBu wideband
All Outputs:	+28 dBu balanced, +22 dBu unbalanced

### Distortion

Microphone:	<0.008% THD [-50 dBu input, +14 dBu output]
Line:	<0.005% THD [+14dBu input, +24 dBu output]

### Frequency Response

Microphone:	20Hz to 20 kHz within 1 dB, -3 dB@45 kHz
Line:	20Hz to 20 kHz within 1 dB, -3 dB@45 kHz

### Crosstalk

Adjacent Channel:	-80 dB@1 kHz, -75 dB@15 kHz
Adjacent Group:	-85 dB@1 kHz, -80 dB@15 kHz

### Nominal Level

0 V.U:	+4 dBu
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Specifications may change in the interests of improvement