

# TECHNICAL DATA

## SPIRIT M SERIES

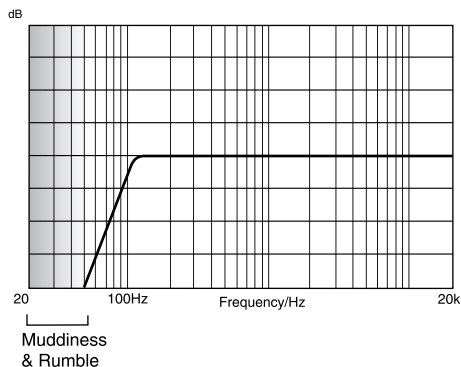
### INTRODUCTION

- 4/8/12 mono inputs with 3-band EQ (swept mid)
- Rugged chassis design, with integral rack mount capability
- 4 dedicated level-controlled FX returns with master level control
- 4 auxiliary sends - 2 pre-fade, 2 post-fade
- Pre-/post-fade switchable direct output on every mono input channel
- Signal detect and peak LEDs on all input channels
- S/PDIF digital output
- Global 48V phantom power
- 100mm faders throughout
- 4 stereo inputs

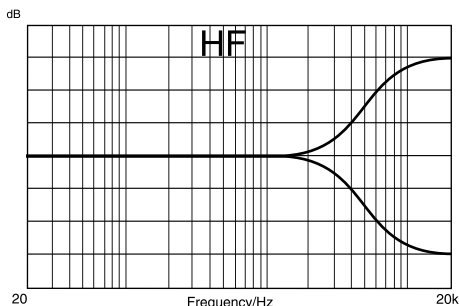
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### TYPICAL EQ CURVES

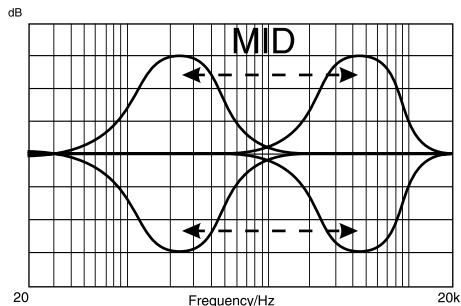
**HIGH PASS FILTER**



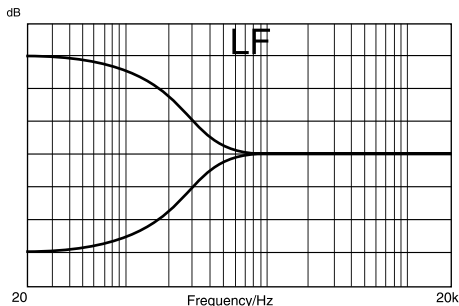
**HF EQ CURVES**



**SWEPT MID EQ CURVE**



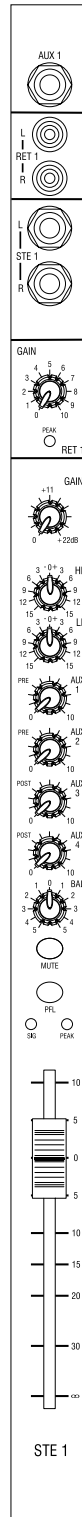
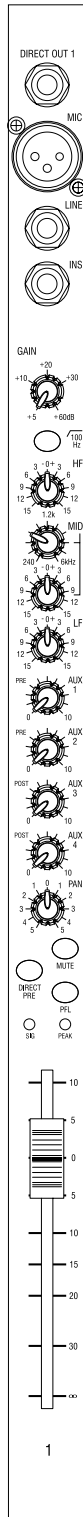
**SWEPT MID EQ CURVE**



# TECHNICAL DATA

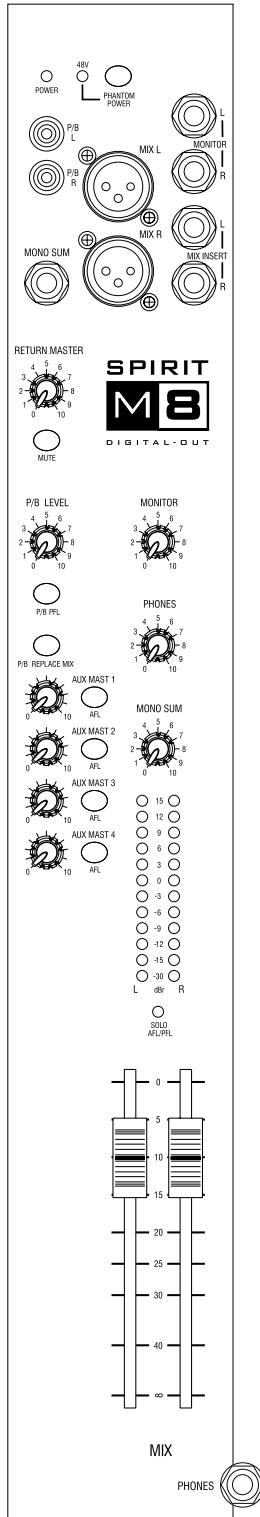
## MONO/STEREO INPUTS

## SPiRiT M SERIES



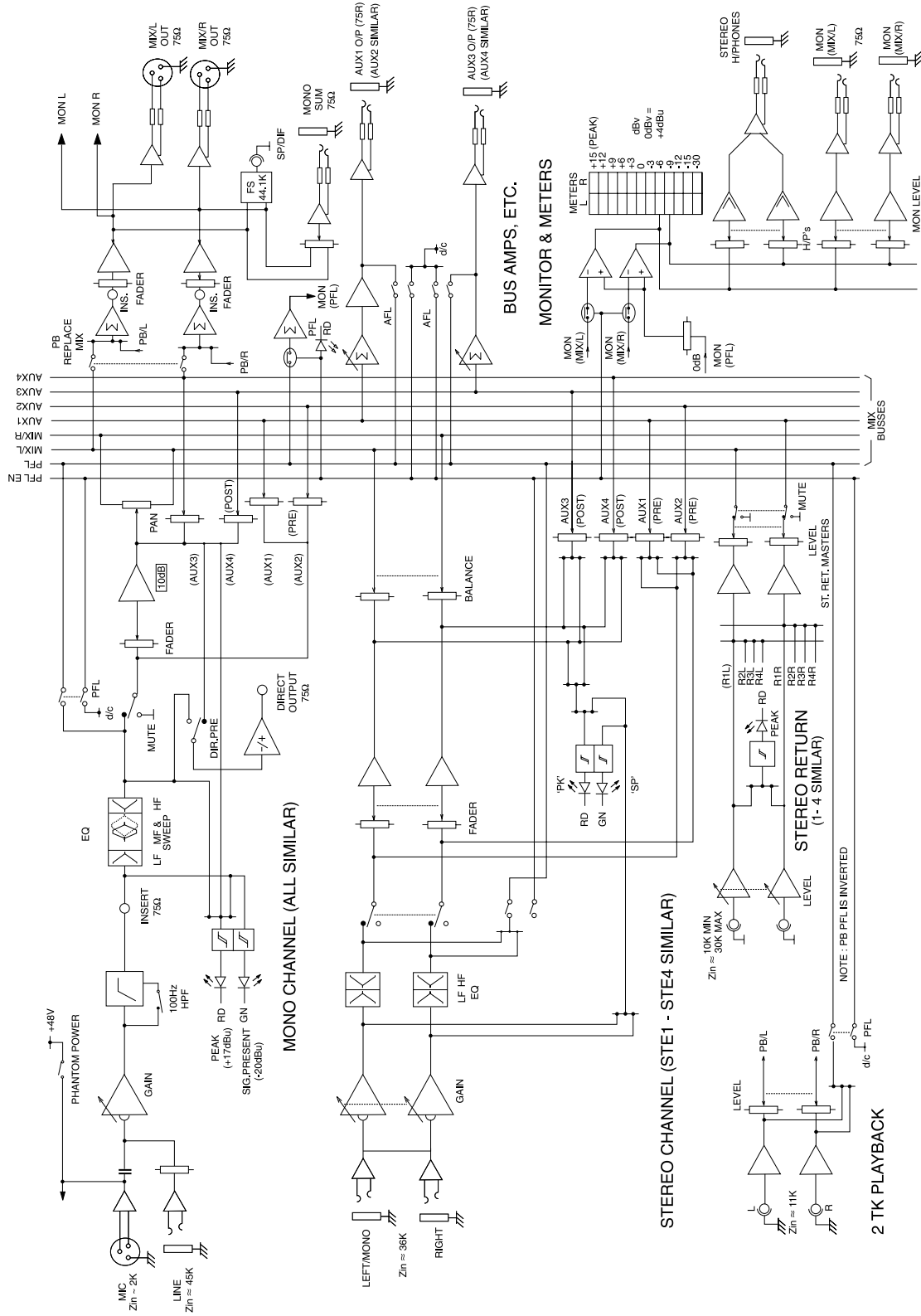
## MASTER SECTION

## SPiRiT M SERIES



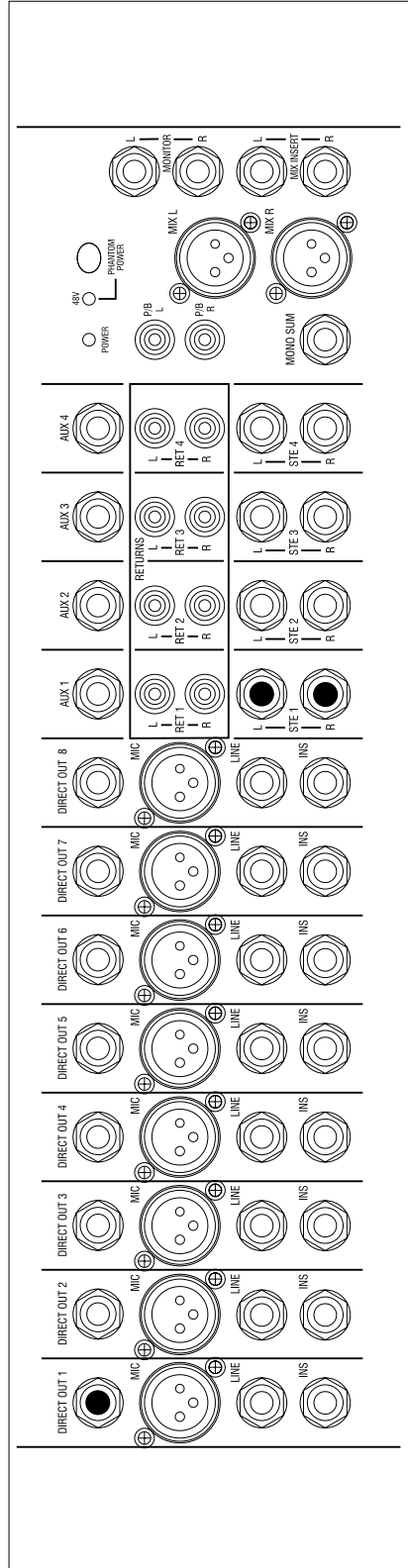
## BLOCK DIAGRAM

## SPiRiT M SERIES



## CONNECTORS

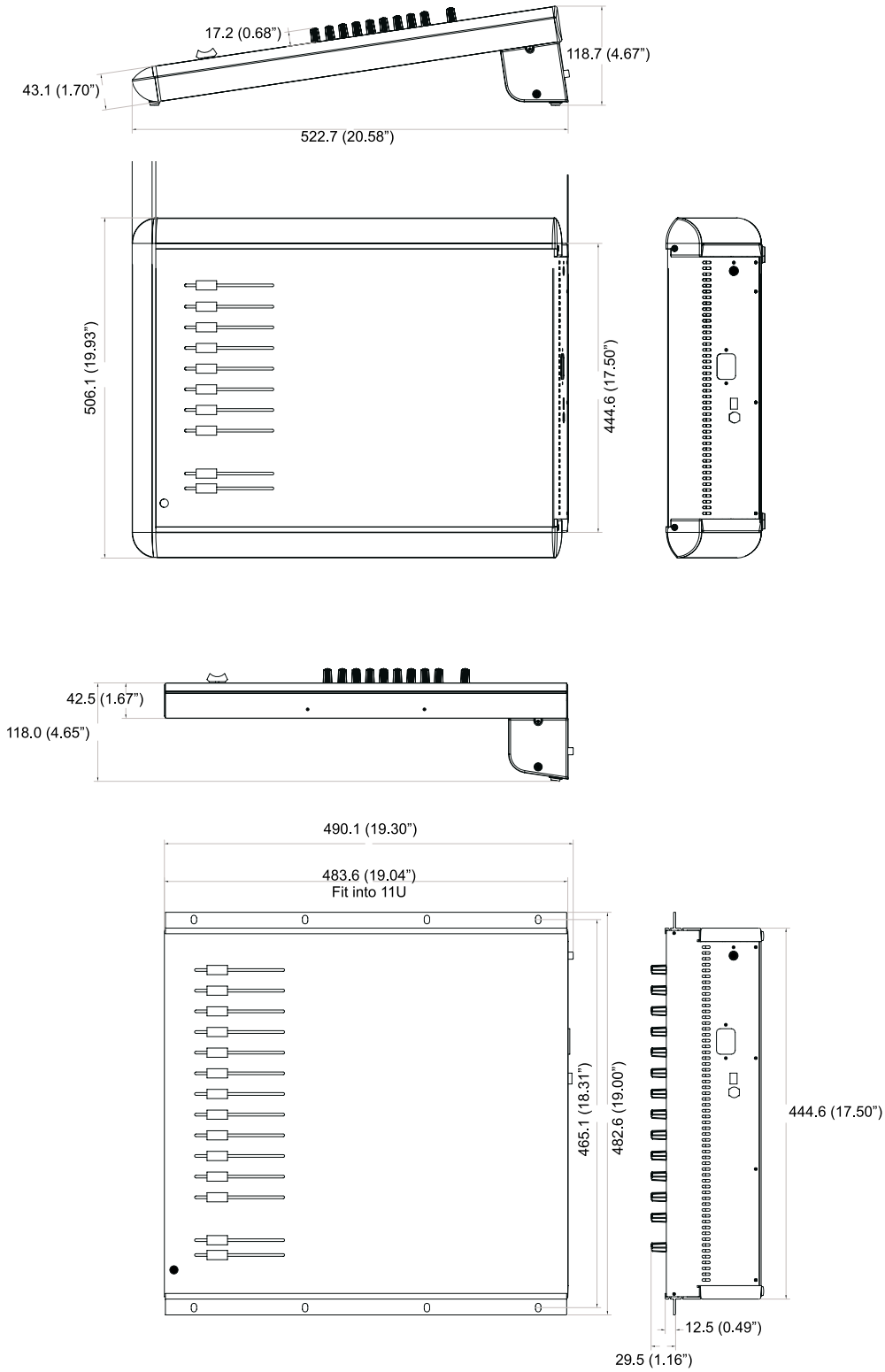
## SPiRiT M SERIES



# TECHNICAL DATA

## M8 & M12 DIMENSIONS

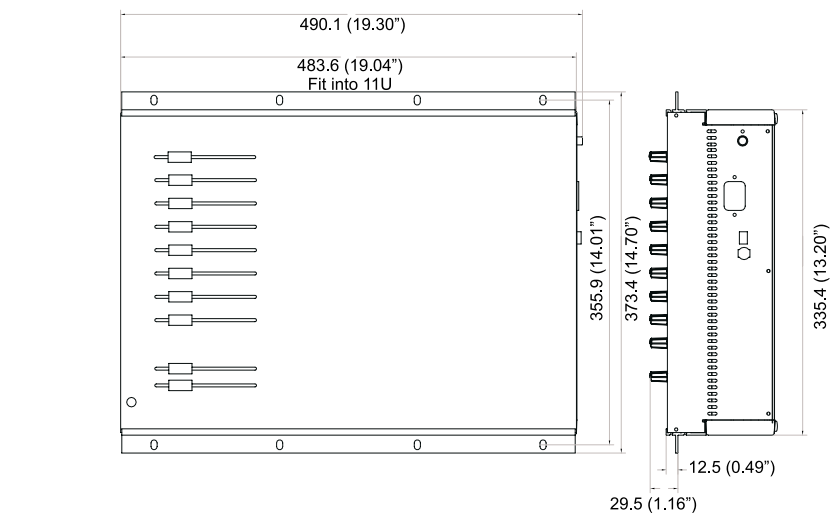
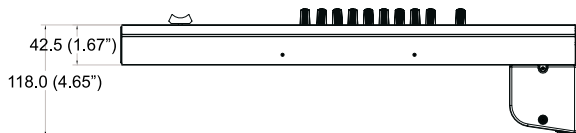
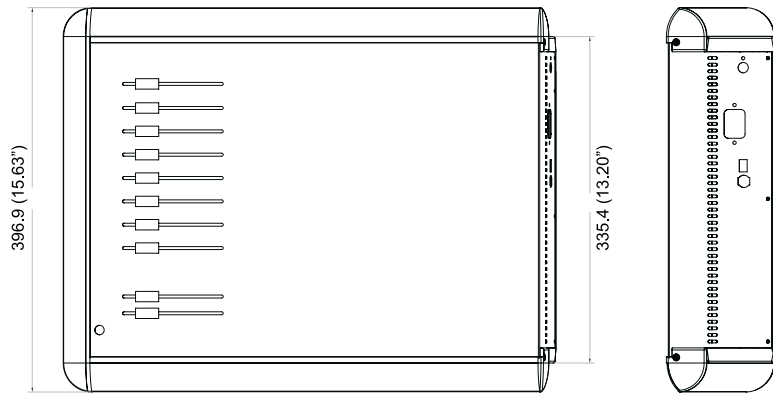
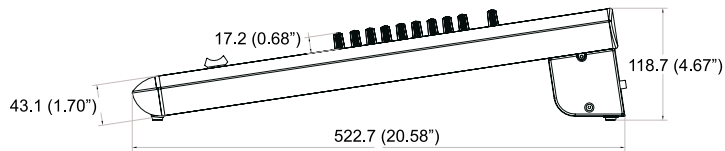
## SPIRIT M SERIES



# TECHNICAL DATA

## M4 DIMENSIONS

## SPIRIT M SERIES



## TYPICAL SPECIFICATIONS

## SPiRiT M SERIES

### NOISE

Measured 22Hz to 22kHz, unweighted  
 AUX & MIX O/Ps (8 Channels routed, faders down) ..... <-84 dBu

### E.I.N.

Microphone Input  
 (Maximum Gain, measured 22Hz - 22kHz, unweighted) ..... -128 dBu

### CROSSTALK

	20Hz - 10kHz	10kHz - 20kHz
Channel mute .....	<90 dB	<80 dB
Fader cutoff (rel to 0 mark) .....	<90dB	<80dB
Routing isolation .....	<90dB	<80dB

### FREQUENCY RESPONSE

Mic/Line Input to any output 20Hz to 20kHz ..... ±1dB

### T.H.D.

Mic Gain. +30dBu, +20dBu at all outputs @ 1kHz ..... < 0.008%

### INPUT & OUTPUT IMPEDANCES

Microphone Input ..... ~2 kΩ  
 Mono Channel Line Input ..... >40 kΩ  
 Stereo Input (Stereo Mode) ..... >30 kΩ  
 Stereo Returns ..... >10 kΩ  
 Headphones Output ..... ~40 Ω  
 All other audio outputs ..... 75 Ω

### INPUT & OUTPUT LEVELS

Mic Input Maximum Level ..... +12 dBu  
 Mono Channel Line Input Maximum Level ..... +38 dBu  
 Insert Point Send / Return Levels ..... +21 dBu  
 Stereo Input Maximum Level ..... +21 dBu  
 Headphones (@200W) ..... 150mW  
 All other audio outputs ..... +21dBu into 10kΩ

### Filter

High Pass ..... 100Hz, 18dB/octave

### EQ

HF ..... 12KHz, ±15dB  
 MF ..... 240Hz - 6KHz, ±15dB  
 LF ..... 60Hz, ±15dB

### Dimensions

M4 (With Sides) ..... W: 397 (15.6") x H: 119 (4.7") x D: 523 (20.6")  
 M4 (No Sides) ..... W: 373 (14.7") x H: 119 (4.7") x D: 490 (19.3")  
 M8/12 (With Sides) ..... W: 506 (19.9") x H: 119 (4.7") x D: 523 (20.6")  
 M8/12 (No Sides, rackmount) ..... W: 483 (19.0") x H: 119 (4.7") x D: 490 (19.3")

### Weight

M4 ..... 6.75Kg (14.8lbs)  
 M8 ..... 8.25Kg (18.1lbs)  
 M12 ..... 8.55Kg (18.8lbs)

### Inrush Current (M Series family)

Worst Case: M12 @ 115V AC ..... 4 Amps Peak

### Average Power Consumption (quiescent)

M4 ..... 19.51 Watts  
 M8 ..... 24.48 Watts  
 M12 ..... 30.00 Watts

### Min / max operating temperature (m series family)

Centigrade / Fahrenheit ..... 0°C - 50°C / 32°F - 122°F