

Appendix C: Technical Information

Specifications

Noise

20 Hz – 20 kHz, 150 Ohm Source Impedance	
Equivalent Input Noise	
(Mic in to Insert Send out, max gain)	-127 dBu
Residual Output Noise	
(All outputs, master levels off, all channel levels off)	
	-95 dBu
(All outputs, master levels unity, all channel levels off)	
	-90 dBu
(All outputs, master levels unity, one channel level unity)	
	-85 dBu

Distortion

20 Hz – 20 kHz	
THD+N, SMPTE IMD	
(Mic input to Main output)	<0.05% @ +4 dBu output

Common Mode Rejection Ratio

1 kHz	
(Mic input to Insert Send output)	60 dB gain at unity

Frequency Response

20 Hz – 30 kHz	
(Mic input to any output, gain at unity)	+0 dB/-1 dB

Crosstalk

20 Hz – 20 kHz	
Adjacent Inputs	-90 dB @ 1 kHz
Inputs to Outputs	-90 dB @ 1 kHz
Fader Off	-90 dB @ 1 kHz
Mute Switch/Break Switch Mute	-90 dB @ 1 kHz

Maximum Levels

All Inputs	+22 dBu
Main Mix XLR	+28 dBu
All other outputs	+22 dBu

Impedances

Mic in	3 kilohms
Channel Insert return	10 kilohms
Ch 1 Instrument Input	1 Megaohm
All other inputs	20 kilohms
Tape out	1.1 kilohms
Phones out	25 ohms
All other outputs	120 ohms

Maximum Voltage Gain (EQ Flat)

Mic Input Channel to	
Insert Output	50 dB
Tape Output	60 dB
USB Output	60 dB
¼ Inch Main Output	70 dB
XLR Main Output	76 dB
Monitor Send	75 dB
FX Send	90 dB
Mono Line Input Channel to	
Insert Output	30 dB
Tape Output	40 dB
USB Output	40 dB
XLR Main Output	56 dB
Monitor Send	55 dB
FX Send	70 dB
Stereo Line Input Channel to	
Tape Output	30 dB
USB Output	30 dB
XLR Main Output	46 dB
Monitor Send	45 dB
FX Send	60 dB
Tape Input to	
Tape Output	20 dB
USB Output	20 dB
XLR Main Output	36 dB
USB Input to	
Tape Output	20 dB
USB Output	20 dB
XLR Main Output	36 dB
Stereo Return to	
Tape Output	10 dB
USB Output	10 dB
XLR Main Output	26 dB
Effects Return to	
Tape Output	10 dB
USB Output	10 dB
XLR Main Output	26 dB
Monitor Send	25 dB

Channel EQ

Low Cut	100 Hz, -18 dB/Octave
High Shelving	±15 dB @ 12 kHz
Mid Peaking	±15 dB @ 2.5 kHz
Low Shelving	±15 dB @ 80 Hz

Digital Effects

I/O	Mono Input/Stereo Output
Number of Presets	16 Mackie-designed presets

Channel Level Set LED

0 dBu (normal operating level)

Channel OL LED

-1 dB before channel clipping
Measured post EQ, pre fader

Meters

Main L/R Mix
 Two columns of 12 segments each:
 OL (+20 dBu), +15, +10, +6, +3, 0 (0 dBu), -2, -4, -7, -10, -20,
 and -30

7 Band Graphic EQ

Frequency Centers 125, 250, 500, 1k, 2k, 4k, 8k
 Gain ±15 dB
 Assignable to Main or Monitor
 Bypassable

USB

Format USB 1.1
 I/O Stereo Input/Stereo Output
 A/D/A 16 Bit, 44.1 kHz/48 kHz

Phantom Power

48 VDC to all Mic channels at once

AC Power Requirements

Voltage Range 100-240 VAC, 50-60 Hz
 Power Consumption: 20 Watts (ProFX8)
 25 Watts (ProFX12)
 Power Connector 3 Pin IEC

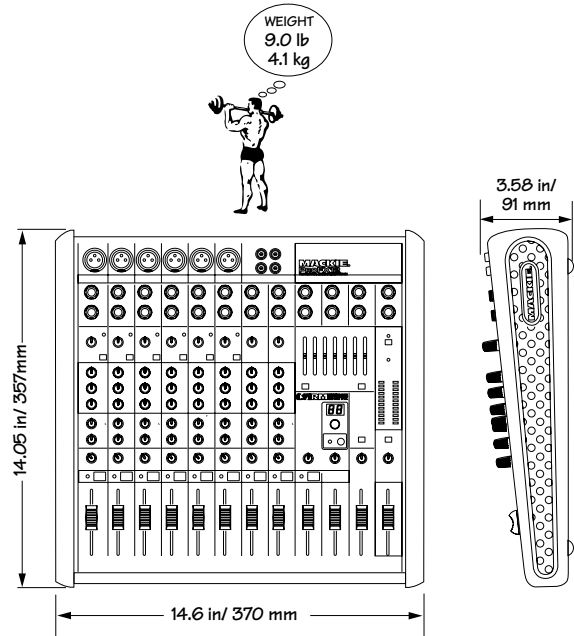
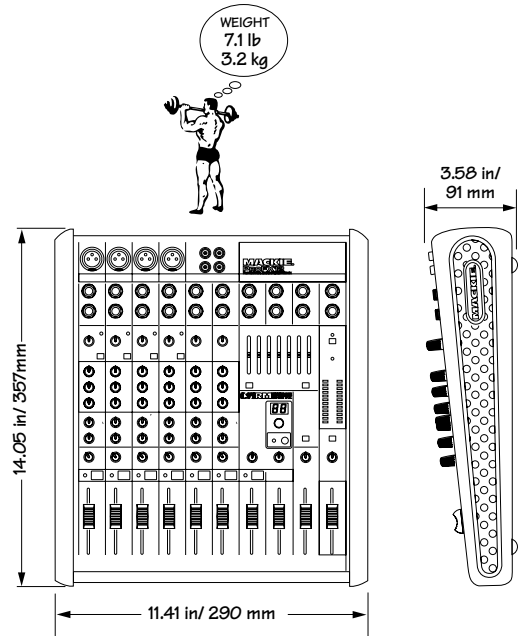
Dimensions (H x W x D)

ProFX8 14.05" x 11.41" x 3.58"
 (357 mm x 290 mm x 91 mm)
 ProFX12 14.05" x 14.6" x 3.58"
 (357 mm x 370 mm x 91 mm)

Weight


ProFX8 7.1 lb (3.2 kg)
 ProFX12 9.0 lb (4.1 kg)

Dimensions



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