



ProFXv2 Series Mixers

ProFX4v2 • ProFX8v2 • ProFX12v2

ProFX16v2 • ProFX22v2 • ProFX30v2

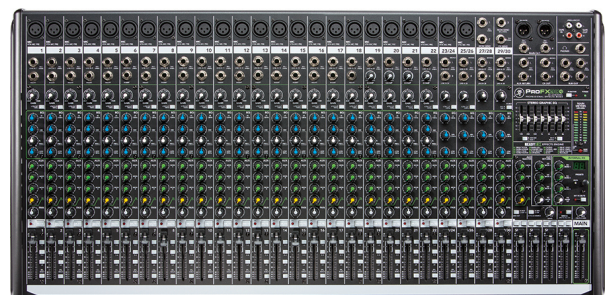
Mackie ProFXv2 Series mixers provide a comprehensive live sound solution, with models from 4- to 30-channels, covering a huge range of applications.

Delivering unmatched sound quality, ProFXv2 features all-new Mackie Vita™ preamps, which are virtually noiseless and designed specifically for the highly-dynamic world of live sound.

ProFXv2 also includes the immensely powerful new ReadyFX™ effect engine, harnessing floating-point DSP to deliver 16 rich effects that elevate any performance.

The ProFXv2 no-compromise live sound toolkit includes a room-shaping GEQ, flexible I/O and a built-in USB interface for hassle-free recording/playback¹.

With a rugged steel chassis and unmatched sonic performance, ProFXv2 is truly the life of your live mix.



APPLICATIONS

Live sound mixing, houses of worship, clubs, gymnasiums, banquet halls, conference rooms, boardrooms, studio and field recording, video post-production, multimedia applications, broadcast, and many, many more.



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¹ Available on ProFX8v2, ProFX12v2, ProFX16v2, ProFX22v2, ProFX30v2.

FEATURES:

- **Unmatched Sound Quality**
 - Extremely low-noise Mackie Vita™ mic preamps designed to add life to any input
 - All-new ReadyFX™ effects engine with 16 great-sounding effects like reverbs, delays and choruses
 - Single-knob channel compression for smooth, even dynamic control¹

- **No-Compromise Live Mixing Toolkit**
 - Graphic EQ for tuning mains or monitors
 - Built-in USB interface to record the show or provide music playback²
 - 4 flexible subgroups for professional mix management¹
 - Aux output(s) perfect for driving a monitor mix, fill speakers and more
 - Additional stereo channels
 - Extra stereo/aux return for external effects or stereo playback devices²
 - High-headroom line level inputs
 - Individual channel mutes and overload indication²
 - Channel inserts for connecting outboard processing²
 - EQ on all channels
 - 60mm faders²
 - Directly connect guitar, bass and other instruments via Hi-Z input³
 - 100Hz low-cut filter and 48V phantom power on all mic channels
 - Stereo RCA tape I/O with input level control
 - Headphone output with separate level control³
 - Control room / headphone outs with level control¹
 - Balanced XLR and/or balanced/unbalanced 1/4-inch main outputs
 - FX mute with remote control via footswitch⁴
 - Break switch mutes all channels for music playback between sets²

- **No-Hassle USB Recording/Playback²**
 - Built in USB recording interface with simple setup via Mac or PC
 - Choose to record subgroups 1/2 or main L/R mix¹
 - Separate USB input level control to mains²
 - USB routable to full-featured channel strip¹
 - Great for live recording and perfect for home studios
 - Stream playback music for live or studio applications
 - Includes user-friendly Tracktion® recording software

- **Rugged, Roadworthy Design**
 - Legendary Mackie “Built-Like-A-Tank” design
 - Solid steel chassis protects your investment
 - Tough ABS side protection
 - Robust internal multi-voltage power supply²

¹ Available on ProFX16v2, ProFX22v2, ProFX30v2.

² Available on ProFX8v2, ProFX12v2, ProFX16v2, ProFX22v2, ProFX30v2.

³ Available on ProFX4v2, ProFX8v2, ProFX12v2.

⁴ Available on ProFX8v2, ProFX12v2, ProFX16v2, ProFX22v2.

PROFX^{v2} SERIES SPECIFICATIONS

Noise Characteristics

| | |
|---|--|
| Equivalent Input Noise (EIN) (150 Ω source impedance, 20 Hz to 20 kHz) | |
| Mic in to FX send, max gain | -128 dBu ¹ |
| Mic in to insert send out, max gain | -125 dBu ² |
| Mic in to insert send out, max gain | -128 dBu ³ |
| Residual Output Noise | |
| All outputs, master levels off, all channel levels off | -95 dBu |
| All outputs, master levels unity, one channel level unity | -85 dBu ⁴ -80 dBu ² |

Frequency Response

| | |
|--|------------------------------|
| Mic input to any output (gain at unity, +0 dB / -1 dB) | |
| | 20 Hz to 40 kHz ⁴ |
| | 20 Hz to 30 kHz ² |

Distortion (THD+N)

| | |
|------------------------------------|--|
| (22 Hz to 80 kHz bandwidth) | |
| Mic in to Main out (+4 dBu output) | <0.01% ⁴ <0.03% ² |

Attenuation and Crosstalk

| | |
|---|---|
| Adjacent Inputs @ 1 kHz | -80 dB ¹ -90 dB ⁵ |
| Inputs to Outputs @ 1 kHz | -80 dB |
| Fader Off @ 1 kHz | -80 dB ¹ -75 dB ⁵ |
| Mute Switch / Break Switch Mute @ 1 kHz | -90 dB ² -100 dB ³ |

Common Mode Rejection Ratio (CMRR)

| | |
|-------------------------------------|-------|
| Mic In to Main Out, max gain, 1 kHz | 70 dB |
|-------------------------------------|-------|

Maximum Levels

| | |
|-------------------|----------------------|
| All inputs | +22 dBu |
| Main Out | +22 dBu ¹ |
| Main Out XLR | +28 dBu ⁵ |
| All other outputs | +22 dBu |

Impedances

| | |
|-----------------------|--|
| Mic In | 3.3 kΩ ³ 3.8 kΩ ⁶ |
| Channel Insert Return | 10 kΩ ⁵ |
| All other inputs | ≥20 kΩ |
| Tape output | 1 kΩ |
| Phones output | 25 Ω |
| All other outputs | 120 Ω Unbalanced, 240 Ω Balanced |

¹ ProFX4v2.

² ProFX8v2, ProFX12v2.

³ ProFX16v2, ProFX22v2, ProFX30v2.

⁴ ProFX4v2, ProFX16v2, ProFX22v2, ProFX30v2.

⁵ ProFX8v2, ProFX12v2, ProFX16v2, ProFX22v2, ProFX30v2.

⁶ ProFX4v2, ProFX8v2, ProFX12v2.

Equalization

| | |
|-----------------------------------|-----------------------|
| ProFX4v2 • ProFX8v2 • ProFX12v2 | |
| Low | ±15 dB @ 80 Hz |
| Mid [ProFX8/12v2] | ±15 dB @ 2.5 kHz |
| High | ±15 dB @ 12 kHz |
| Low Cut Filter | 18 dB/octave @ 100 Hz |
| ProFX16v2 • ProFX22v2 • ProFX30v2 | |
| Mono Channels | |
| Low | ±15 dB @ 80 Hz |
| Mid | ±15 dB |
| | 100 Hz - 8 kHz |
| High | ±15 dB @ 12 kHz |
| Low Cut Filter | 18 dB/octave @ 100 Hz |
| Stereo Channels | |
| Low | ±15 dB @ 80 Hz |
| Mid | ±15 dB @ 2.5 kHz |
| High | ±15 dB @ 12 kHz |

Maximum Voltage Gain (EQ Flat)

| | |
|------------------------------|--|
| Mic input Channel to | |
| Insert Output | 50 dB |
| Tape Output | 60 dB |
| USB Output | 50 dB ² 60 dB ³ |
| 1/4" Main Output | 70 dB |
| XLR Main Output | 76 dB |
| Monitor Send | 76 dB ⁶ 81 dB ³ |
| FX Send | 75 dB ¹ 90 dB ⁵ |
| Mono Line Input Channel to | |
| Insert Output | 30 dB |
| Tape Output | 40 dB |
| USB Output | 30 dB ² 40 dB ³ |
| XLR Main Output | 56 dB |
| Monitor Send | 56 dB ⁶ 61 dB ³ |
| FX Send | 55 dB ¹ 70 dB ⁵ |
| Stereo Line Input Channel to | |
| Tape Output | 30 dB |
| USB Output | 30 dB ⁵ |
| XLR Main Output | 46 dB |
| Monitor Send | 46 dB ⁶ 51 dB ³ |
| FX Send | 45 dB ¹ 60 dB ² 55 dB ³ |
| Tape Input to | |
| Main Output | 30 dB ¹ |
| XLR Main Output | 36 dB ⁵ |
| USB Input to | |
| Main Output | 30 dB ¹ |
| XLR Main Output | 36 dB ⁵ |
| Stereo Return to | |
| Mon Output | 30 dB ³ |
| XLR Main Output | 26 dB ⁵ |

PROFX^{v2} SERIES SPECIFICATIONS SPECIFICATIONS continued...

Digital Effects

| | |
|-------------------|----------------------------|
| I/O | Mono input / Stereo output |
| Number of Presets | 16 |

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, -30 | |
| Channel OL LED ⁵ | |
| Measured post-EQ, pre-fader (-3 dB before channel clipping) | 18 dBu |

Graphic EQ

| | |
|---|-------------------------------|
| Frequency Centers [5-Band] ¹ | 80, 250, 800, 2.5k, 8k |
| Frequency Centers [7-Band] ⁵ | 125, 250, 500, 1k, 2k, 4k, 8k |
| Gain | ±15 dB |
| Assignable to Main or Monitor, bypassable | |

USB⁵

| | |
|--------|------------------------------|
| 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 simultaneously

AC Power Requirements

| | |
|--|--|
| Power Consumption | 20 watts [ProFX8v2, ProFX12v2] 40 watts [ProFX16v2] 45 watts [ProFX22v2] 50 watts [ProFX30v2] |
| Universal AC Power Supply Class I Hard-Wired Wall Wart ¹ Class II Detachable Line Cord ⁵ | 100 – 240 VAC, 50 – 60 Hz [12VDC @ 1.5A] |
| Operating Temperature | 0° – 40°C 32° – 104°F |

Physical Properties (packaged product)

| | |
|-----------------|------------------|
| ProFX4v2 | |
| Height | 4.0 in / 102 mm |
| Width | 12.3 in / 312 mm |
| Depth | 12.2 in / 310 mm |
| Weight | 4.7 lb / 2.1 kg |

| | |
|-----------------|------------------|
| ProFX8v2 | |
| Height | 7.0 in / 178 mm |
| Width | 15.6 in / 396 mm |
| Depth | 17.9 in / 455 mm |
| Weight | 10.0 lb / 4.5 kg |

| | |
|------------------|------------------|
| ProFX12v2 | |
| Height | 7.0 in / 178 mm |
| Width | 18.8 in / 478 mm |
| Depth | 18.0 in / 457 mm |
| Weight | 12.0 lb / 5.4 kg |

| | |
|------------------|------------------|
| ProFX16v2 | |
| Height | 8.1 in / 206 mm |
| Width | 22.0 in / 559 mm |
| Depth | 20.1 in / 511 mm |
| Weight | 19.0 lb / 8.6 kg |

| | |
|------------------|-------------------|
| ProFX22v2 | |
| Height | 8.1 in / 206 mm |
| Width | 28.4 in / 721 mm |
| Depth | 20.4 in / 518 mm |
| Weight | 24.5 lb / 11.1 kg |

| | |
|------------------|------------------|
| ProFX30v2 | |
| Height | 8.3 in / 211 mm |
| Width | 37.4 in / 950 mm |
| Depth | 20.9 in / 531 mm |
| Weight | 34 lb / 15.4 kg |

PROFX^{v2} SERIES SPECIFICATIONS SPECIFICATIONS continued...
Physical Properties (product)
ProFX4v2

| | |
|--------|------------------|
| Height | 2.9 in / 73 mm |
| Width | 8.7 in / 220 mm |
| Depth | 10.1 in / 256 mm |
| Weight | 3.2 lb / 1.4 kg |

ProFX8v2

| | |
|--------|------------------|
| Height | 3.6 in / 91 mm |
| Width | 11.4 in / 290 mm |
| Depth | 14.1 in / 358 mm |
| Weight | 7.1 lb / 3.2 kg |

ProFX12v2

| | |
|--------|------------------|
| Height | 3.6 in / 91 mm |
| Width | 14.6 in / 370 mm |
| Depth | 14.1 in / 358 mm |
| Weight | 9.0 lb / 4.1 kg |

ProFX16v2

| | |
|--------|------------------|
| Height | 3.8 in / 97 mm |
| Width | 18.7 in / 475 mm |
| Depth | 16.0 in / 407 mm |
| Weight | 13.0 lb / 5.9 kg |

ProFX22v2

| | |
|--------|------------------|
| Height | 3.8 in / 97 mm |
| Width | 25.1 in / 639 mm |
| Depth | 16.0 in / 407 mm |
| Weight | 18.0 lb / 8.2 kg |

ProFX30v2

| | |
|--------|------------------|
| Height | 3.8 in / 97 mm |
| Width | 33.6 in / 853 mm |
| Depth | 16.6 in / 422 mm |
| Weight | 25 lb / 11.4 kg |

Options
ProFX4v2

| | |
|-----|----------------|
| Bag | P/N 2036809-29 |
|-----|----------------|

ProFX8v2

| | |
|-------|-------------|
| Bag | P/N 0020636 |
| Cover | P/N 0020638 |

ProFX12v2

| | |
|--------------|----------------|
| Bag | P/N 0020637 |
| Cover | P/N 0020639 |
| Rack Ear Kit | P/N 2045757-00 |

ProFX16v2

| | |
|--------------|----------------|
| Bag | P/N 2036809-10 |
| Cover | P/N 2036809-12 |
| Rack Ear Kit | P/N 2036168-00 |

ProFX22v2

| | |
|-------|----------------|
| Bag | P/N 2036809-11 |
| Cover | P/N 2036809-13 |

ProFX30v2

| | |
|-------|----------------|
| Cover | P/N 2036809-30 |
|-------|----------------|

Ordering Information
ProFX4v2 4-channel Professional Effects Mixer

| | |
|------------|----------------|
| US | P/N 2044600-00 |
| EU | P/N 2044600-01 |
| JP | P/N 2044600-02 |
| UK | P/N 2044600-03 |
| AU | P/N 2044600-04 |
| CN | P/N 2044600-05 |
| BZ (~120V) | P/N 2044600-06 |

ProFX8v2 8-channel Professional Effects Mixer with USB

| | |
|------------|----------------|
| US | P/N 2044601-00 |
| EU | P/N 2044601-01 |
| UK | P/N 2044601-03 |
| CN | P/N 2044601-05 |
| BZ (~120V) | P/N 2044601-06 |

ProFX12v2 12-channel Professional Effects Mixer with USB

| | |
|------------|----------------|
| US | P/N 2044602-00 |
| EU | P/N 2044602-01 |
| UK | P/N 2044602-03 |
| CN | P/N 2044602-05 |
| BZ (~120V) | P/N 2044602-06 |

ProFX16v2 16-channel 4-Bus Effects Mixer with USB

| | |
|------------|----------------|
| US | P/N 2044603-00 |
| EU | P/N 2044603-01 |
| UK | P/N 2044603-03 |
| CN | P/N 2044603-05 |
| BZ (~120V) | P/N 2044603-06 |

ProFX22v2 22-channel 4-Bus Effects Mixer with USB

| | |
|------------|----------------|
| US | P/N 2044604-00 |
| EU | P/N 2044604-01 |
| UK | P/N 2044604-03 |
| CN | P/N 2044604-05 |
| BZ (~120V) | P/N 2044604-06 |

ProFX30v2 30-channel 4-Bus Effects Mixer with USB

| | |
|------------|----------------|
| US | P/N 2044605-00 |
| EU | P/N 2044605-01 |
| UK | P/N 2044605-03 |
| CN | P/N 2044605-05 |
| BZ (~120V) | P/N 2044605-06 |

ProFX4v2, ProFX8v2, ProFX12v2 and ProFX16v2 DIMENSIONS

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES DUAL (MM) DIMENSIONS FOR REF ONLY

TOLERANCE IN INCHES LINEAR ± 0.13 (in) / ± 3.3 (mm) ANGLES ± 1°

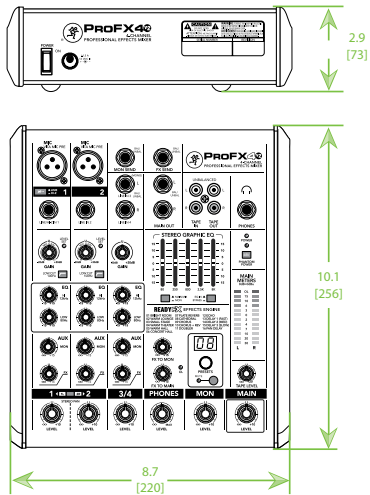
(XXX) = REF DIMS NO TOLERANCE IMPLIED

TSC = THEORETICAL SHARP CORNER

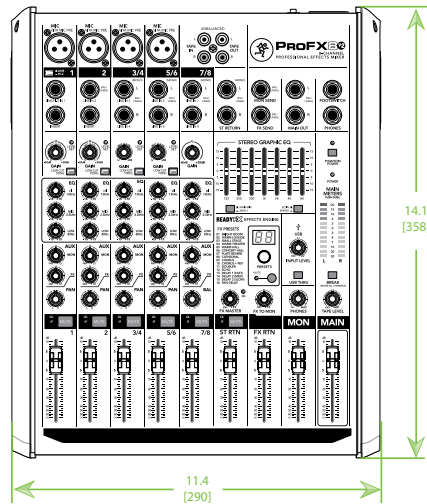
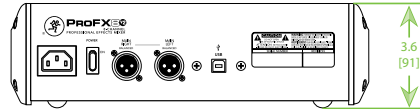
DIMENSIONS ACROSS CENTERLINES TO BE SYMMETRICAL

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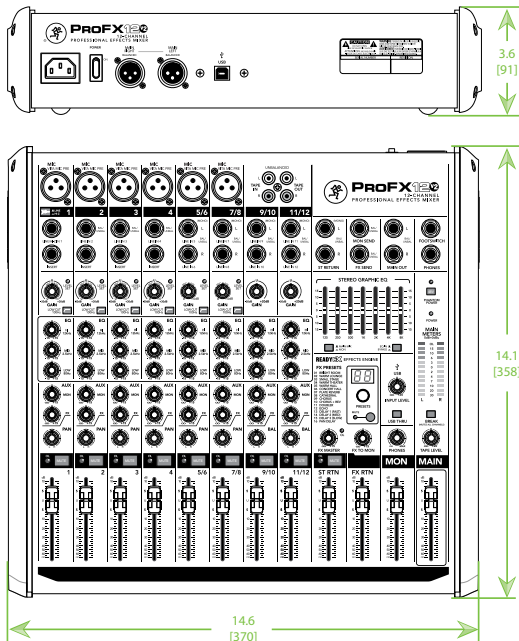
- ProFX4v2 NOTES:
1. WEIGHT APPROX. 3.2 lb [1.4 kg]
 2. SHIPPING WEIGHT APPROX. 4.7 lb [2.1 kg]



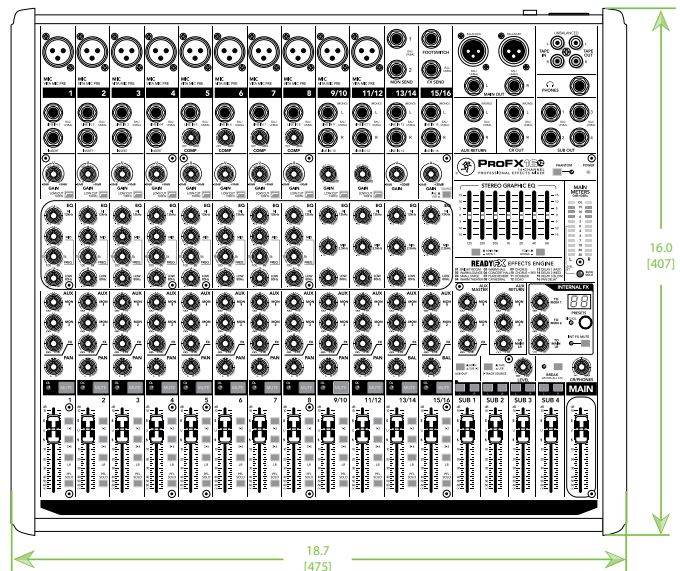
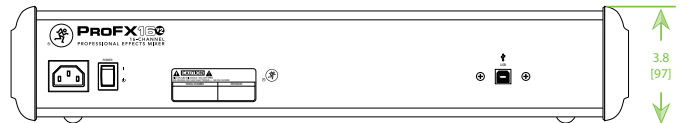
- ProFX8v2 NOTES:
1. WEIGHT APPROX. 7.1 lb [3.2 kg]
 2. SHIPPING WEIGHT APPROX. 10.0 lb [4.5 kg]



- ProFX12v2 NOTES:
1. WEIGHT APPROX. 9.0 lb [4.1 kg]
 2. SHIPPING WEIGHT APPROX. 12.0 lb [5.4 kg]



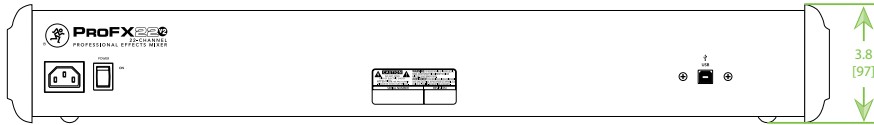
- ProFX16v2 NOTES:
1. WEIGHT APPROX. 13.0 lb [5.9 kg]
 2. SHIPPING WEIGHT APPROX. 19.0 lb [8.6 kg]



ProFX22v2 and ProFX30v2 DIMENSIONS

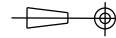
ProFX22v2 NOTES:

1. WEIGHT APPROX. 18.0 lb [8.2 kg]
2. SHIPPING WEIGHT APPROX. 24.5 lb [11.1 kg]



3.8
[97]

THIRD ANGLE PROJECTION



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UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS ARE IN INCHES
DUAL (MM) DIMENSIONS
FOR REF ONLY

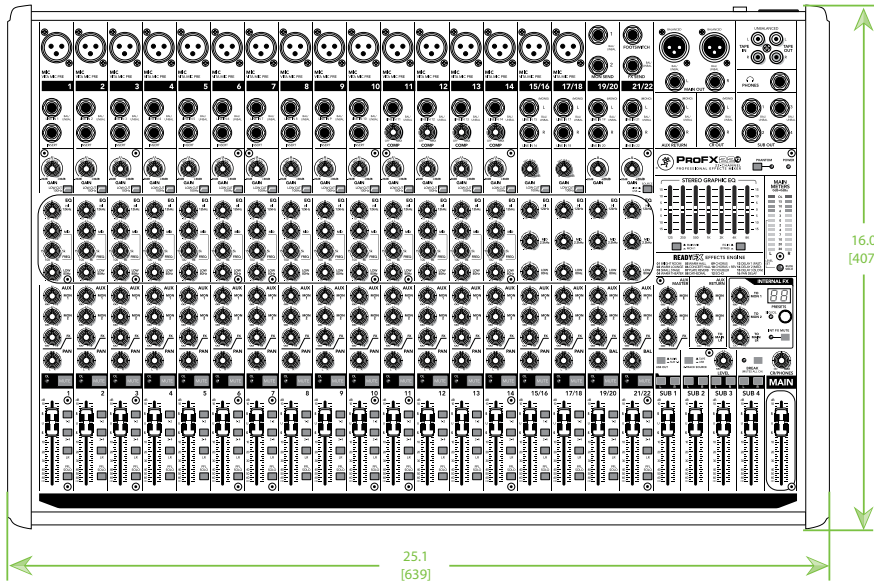
TOLERANCE IN INCHES
LINEAR ± 0.13 in / ± 3.3 mm
ANGLES ± 1°

(X.XX) = REF DIMS

NO TOLERANCE IMPLIED

TSC = THEORETICAL SHARP CORNER

DIMENSIONS ACROSS CENTERLINES
TO BE SYMMETRICAL

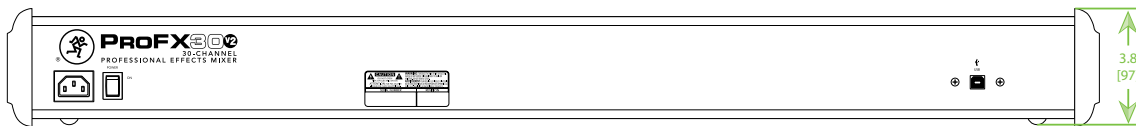


16.0
[407]

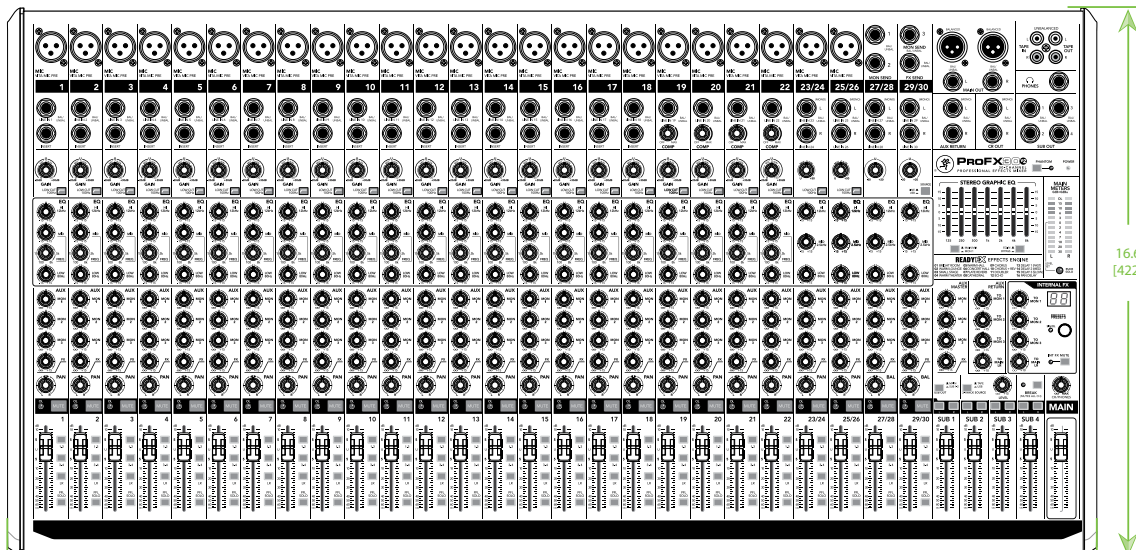
25.1
[639]

ProFX30v2 NOTES:

1. WEIGHT APPROX. 25.0 lb [11.4 kg]
2. SHIPPING WEIGHT APPROX. 34.0 lb [15.4 kg]



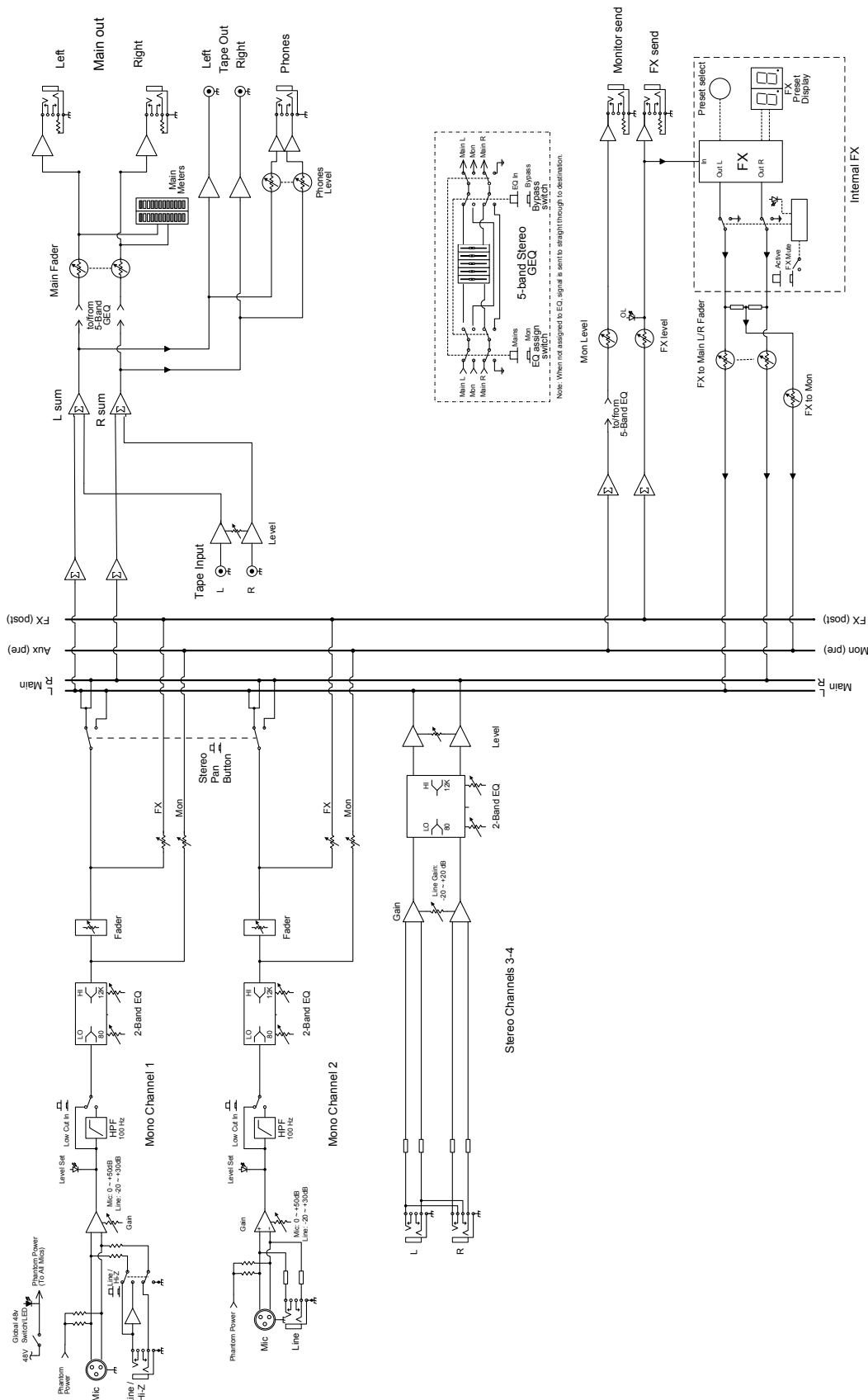
3.8
[97]



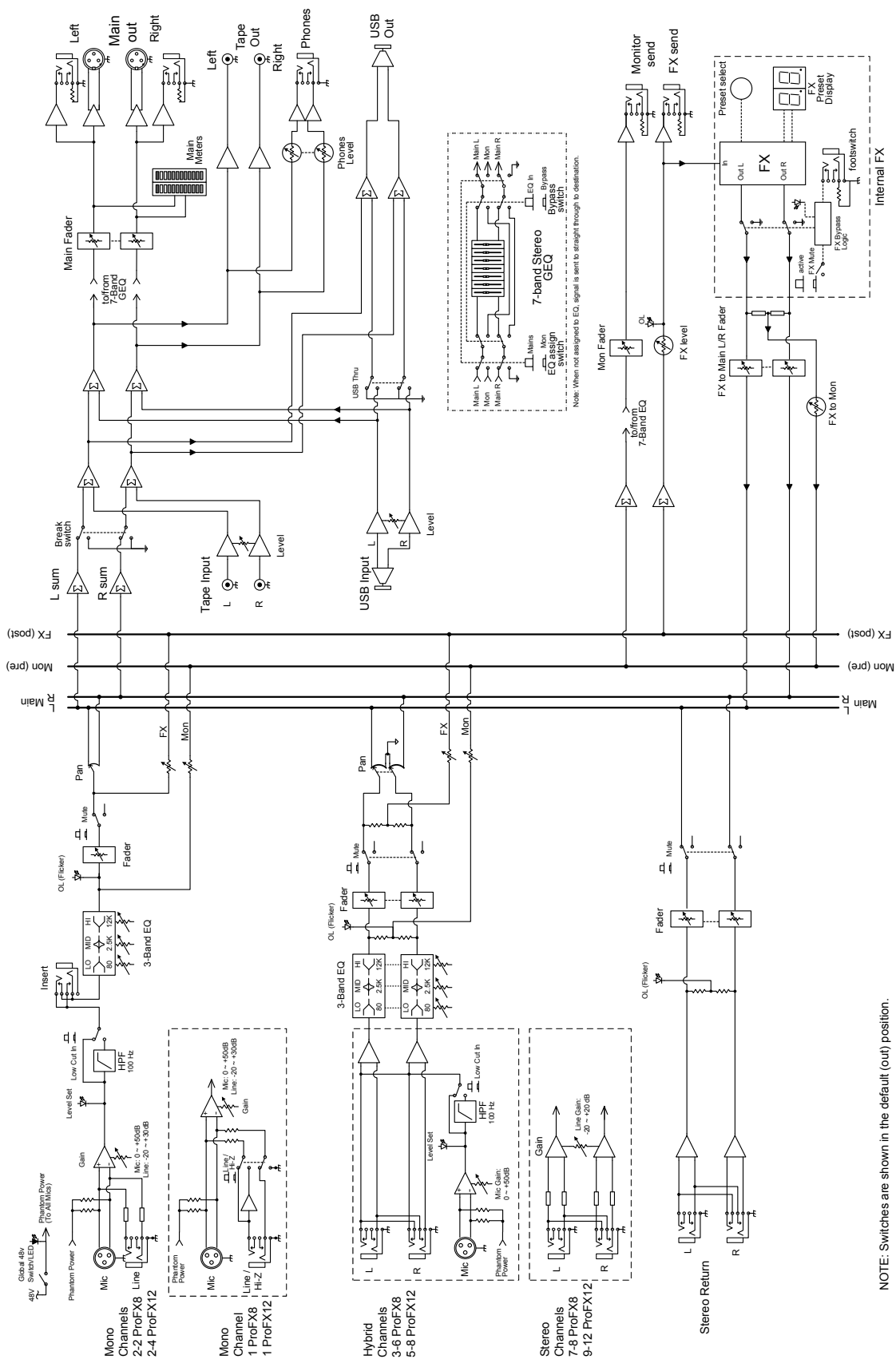
16.6
[422]

33.6
[853]

ProFX4v2 BLOCK DIAGRAM

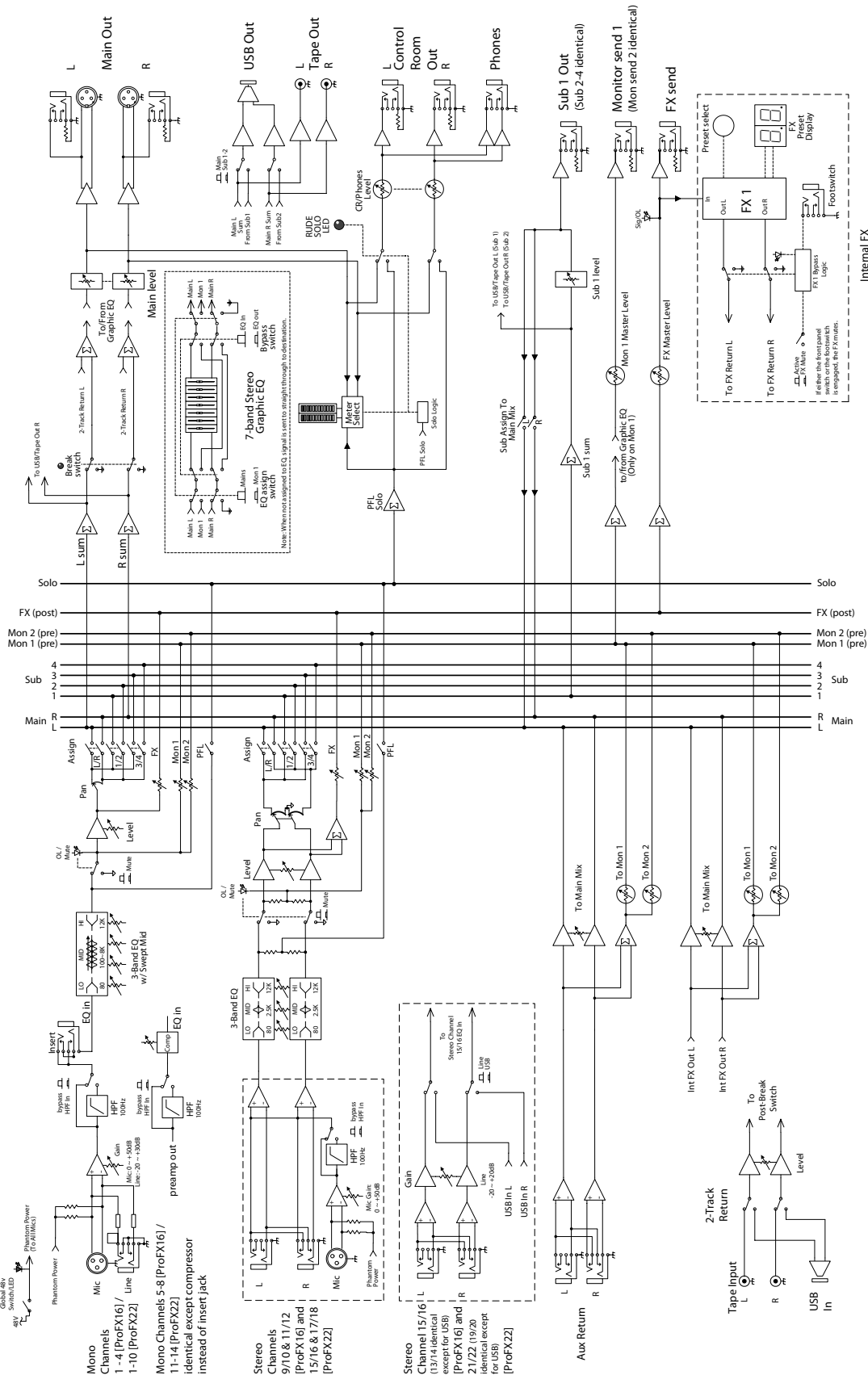


ProFX8v2 and ProFX12v2 BLOCK DIAGRAM



NOTE: Switches are shown in the default (out) position.

ProFX16v2 and ProFX22v2 BLOCK DIAGRAM





PROFX^{v2}SERIES

Professional Effects Mixers

MACKIE®

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800-898-3211, Fax 425-487-4337, sales@mackie.com

Part No. SWI084 Rev. A 04/15

Electronic files for this product are available at:

www.mackie.com

| | |
|-------------------------------|-----------------------|
| Specification Sheet | ProFXv2_SS.PDF |
| ProFX4v2 Owner's Manual | ProFX4v2_OM.PDF |
| ProFXv2 Series Owner's Manual | ProFXv2_Series_OM.PDF |

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