Reach

The Mackie Reach™ is the ultimate all-in-one professional PA system. The advanced ARC™ (Amplified Radial Curve) array technology delivers clear, high-fidelity sound to your entire audience, and with the EarShot™ personal monitoring system, Reach™ provides an incredibly flexible built-in stage monitoring solution as well.

Plus, with wireless streaming and control over the built-in 6-channel digital mixer via the Mackie Connect™ app for iOS and Android devices, you get wireless freedom to control everything from levels and EQ to sound-enhancing tools like a feedback destroyer for amazing sound in any situation.

Like us

Follow us

Watch our dang videos

FEATURES:

■ 720W professional PA system with ultra-wide coverage, built-in personal monitoring and wireless streaming and control

■ Mackie ARC™ (Amplified Radial Curve) array technology utilizes a unique angled waveguide structure to provide 150-degrees of horizontal coverage to reach each and every audience member

- Three 1" dome HF compression drivers
- Dual 6.5" high-output mid/low drivers

■ Mackie EarShot™ personal monitoring system allows performers to hear themselves better on stage

- Built-in personal monitoring with separate volume control allows for maximum monitoring flexibility
- Separate speakers on each side of Reach allow for monitoring from either side of the PA
- Also great for extending side stage coverage (up to 250-degrees total horizontal coverage)

■ Wireless streaming and control over integrated 6-channel digital mixer

- Complete wireless mixing control via the Mackie Connect™ app for iOS[1] and Android[2] devices
- Stream music via Bluetooth® and integrate into your live mix
- All the right connections for your small band, solo act or presentation
    o 4 x XLR combo inputs for vocal mics, guitars, keyboards, etc.
    o 1/8" aux input for connected music playback from laptop or other music playback device
    o 1/4" headphone output and silent practice mode
    o Footswitch jack for instant control over FX mute
    o Link out to connect another Reach for additional power and more inputs
- Loaded with professional sound tools to optimize your sound
    o 16 great-sounding digital effects like vocal reverbs and delays
    o 3-band EQ per channel for tonal control
    o Perform fearlessly with the built-in Feedback Destroyer
    o Choice of speaker modes ensures amazing sound for any application with the touch of a button
    o Setup in familiar venues quickly with 3 user-definable system presets to instantly recall your settings.
    o Intuitive, on-product hardware interface allows for control over most mixing features without the need for a smartphone

■ Durable carry bag for easy transportation and protection (available separately)

---

[1] Requires iOS 8.0 and later. Supports iPhone 6S Plus, iPhone 6S, iPhone 6 Plus, iPhone 6, iPhone 5S, iPhone 5C, iPhone 5, iPad (4th generation), iPad (3rd generation), iPad 2, iPad Air 2, iPad Air, iPad mini 4, iPad mini 3, iPad mini 2 and iPad mini, iPod Touch (5th generation).

[2] Officially supports Android versions 4.1-4.4, or 5.0 and greater. Officially supported/recommended devices include:
Google Nexus 6, Samsung Galaxy S6, Samsung Galaxy S5, Samsung S5 Mini, Samsung S4 Mini, Samsung Note 4, Samsung Note 3, LG G Flex, LG G3, HTC One M9, HTC One M8, Moto G, Moto E, Sony Xperia Z3.
All other Android devices are not officially supported, but anticipated to function as desired.

REACH SPECIFICATIONS

Acoustic Performance

Frequency Response (–10 dB)	50 Hz – 20 kHz
Frequency Response (–3 dB)	55 Hz – 17 kHz
Max peak SPL (@ 1m calculated)[1]	126 dB
Crossover Point	2.6 kHz
Dispersion	150˚ x 50˚ (H x V)

High-Frequency Section

Tweeter Array:

Voice Coil / Horn Entry Diameter	3x 1.0 in / 25 mm
Diaphragm Material	Polyethylene Naphthalate (PEN)
Magnet Material	Ferrite

Full Range Side Fills:

Woofer Diameter	2x 4.0 in / 102 mm
Voice Coil Diameter	1.0 in / 25 mm
Diaphragm Material	Pulp Composite
Magnet Material	Ferrite

Low-Frequency Section

Woofer Diameter	2x 6.5 in / 165 mm
Voice Coil Diameter	1.3 in / 33 mm
Diaphragm Material	Pulp Composite
Magnet Material	Ferrite

Power Amplifiers

System Power Amplification

Rated Power	360 watts rms 720 watts peak

Low Frequency Power Amplifier

Rated Power	2x 100 watts rms 2x 200 watts peak
Rated THD	10%
Cooling	Convection
Design	Class D

High Frequency Power Amplifier

Rated Power	60 watts rms 120 watts peak
Rated THD	10%
Cooling	Convection
Design	Class D

Side Fill Power Amplifier

Rated Power	2x 50 watts rms 2x 100 watts peak
Rated THD	10%
Cooling	Convection
Design	Class D

System Processing

Channel EQ	3-band
Main EQ	4 voicing modes
FX	16 presets
Feedback Destroyer	On / Off

Channel Equalization

Low Shelving	±12 dB @ 80 Hz
Mid-Peaking	±12 dB @ 2.5 kHz
High Shelving	±12 dB @ 5 kHz
Increments	±3 dB

Input / Output

XLR	10 kΩ balanced
1/4" TRS	>100 kΩ balanced
1/4" TS	>400 kΩ unbalanced
1/8"	10 kΩ
Link In	10 kΩ
Link Out	100 Ω
Headphone Out	10 Ω

---

[1] Calculated from driver sensitivity and amplifier power.

REACH SPECIFICATIONS CONTINUED...

Power

Detachable line cord	100 – 120 V~, 50 – 60 Hz, 100W
	200 – 240 V~, 50 – 60 Hz, 100W
Operating Temperature	0 to 40 °C
[extended ambient temperature]	32 to 104 °F

Safety Features

Input Protection	Peak and rms limiting, power supply and amplifier thermal protection
Display LEDs	Defeatable front power ON, Rear channel input OL (Overload)
Status Info	Input and output levels, FX on/off and level, Feedback Destroyer on/off, EQ speaker voicing on/off

Bluetooth Information

Bluetooth Protocol	3.0
Bluetooth Function	Audio Streaming and User Interface Control

Construction Features

Cabinet	PC-ABS
Finish	High durability black paint
Handles	One on top, one in back
Grille	Powder-coated 18 gauge steel

Physical Properties (packaged product)

Height	33.0 in / 838 mm
Width	12.2 in / 310 mm
Depth	13.6 in / 345 mm
Weight	37.3 lb / 16.9 kg

Physical Properties (product)

Height	28.0 in / 711 mm
Width	8.6 in / 218 mm
Depth	9.5 in / 241 mm
Weight	31.4 lb / 14.2 kg

Options

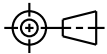|	
Reach Bag	P/N 2036809-31

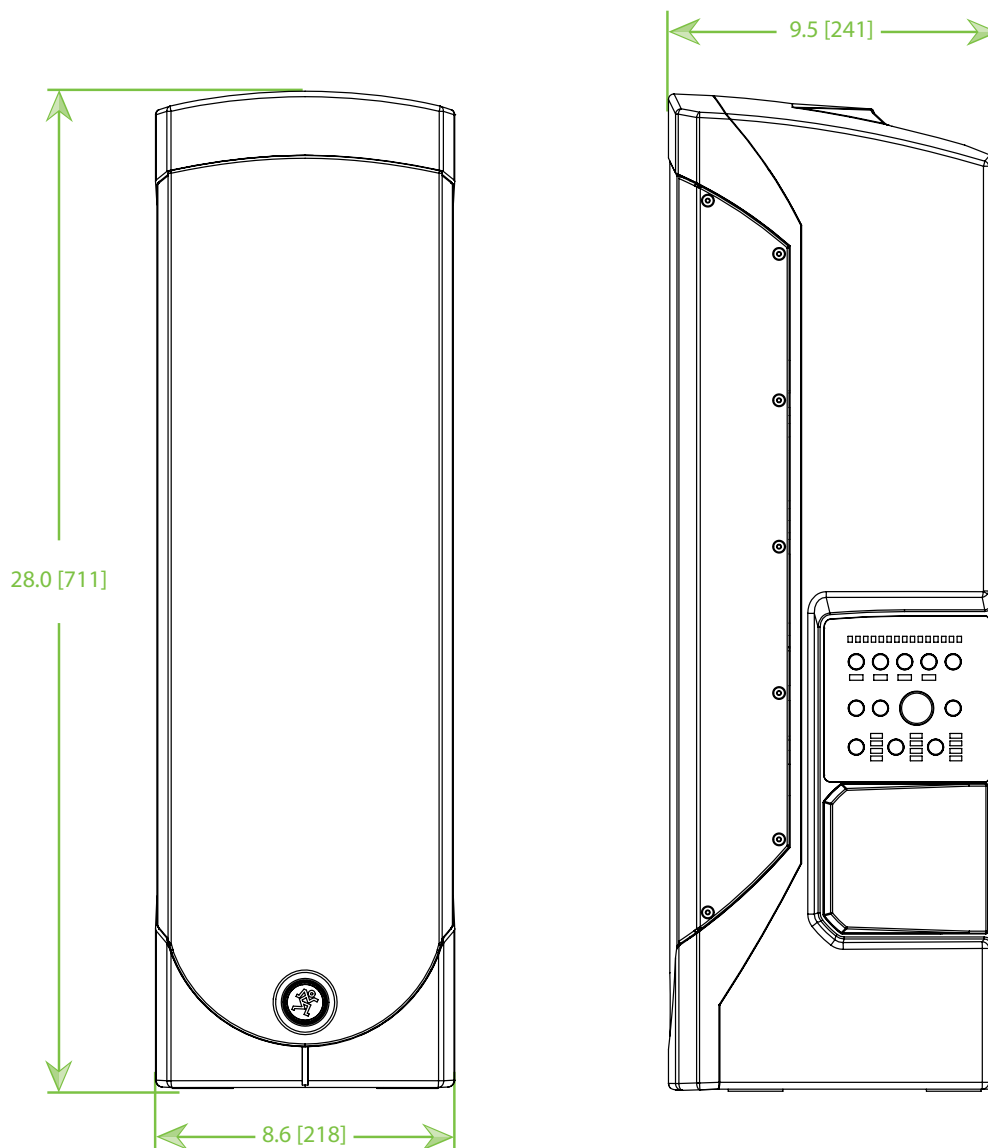## Ordering Information

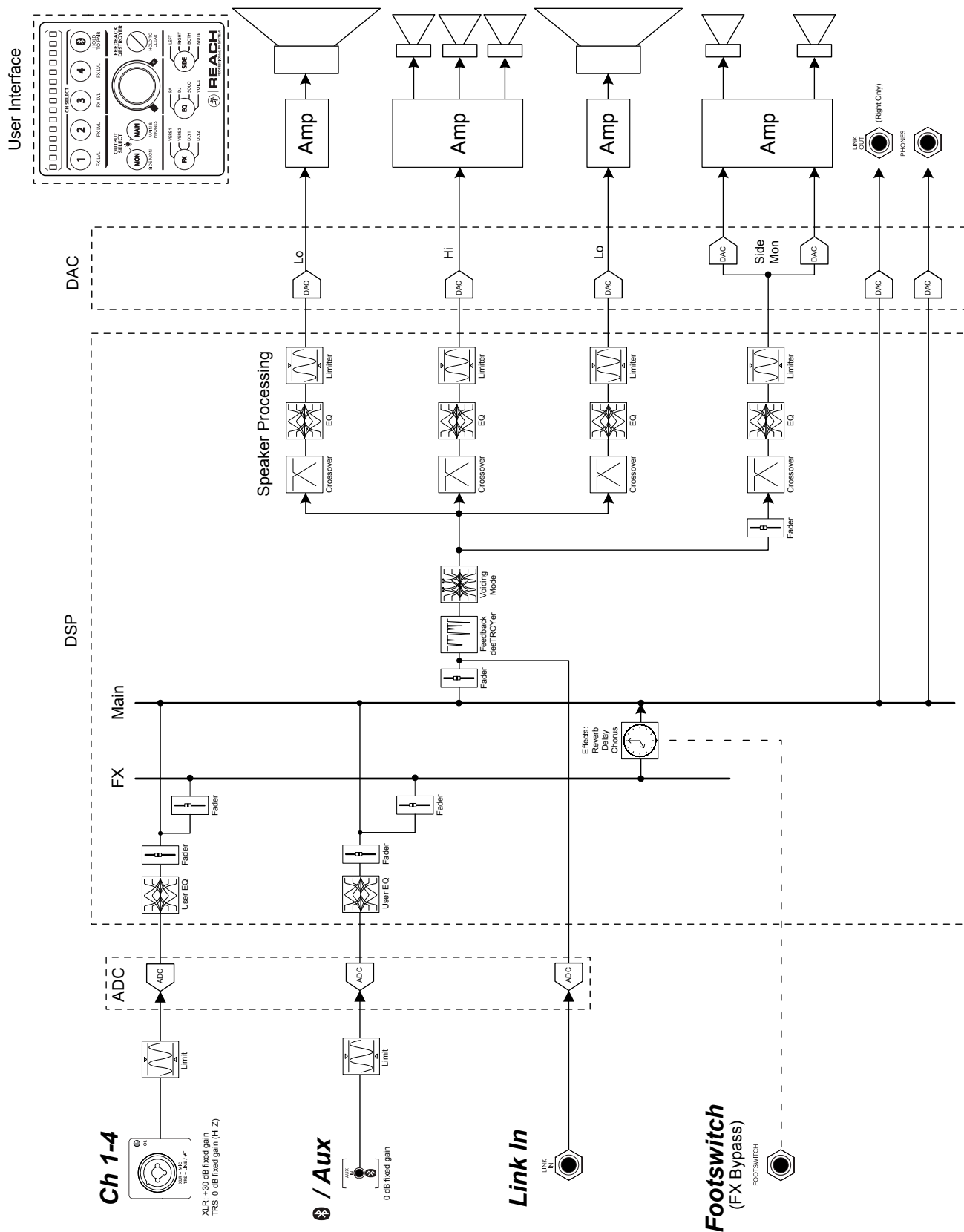|	
Reach Professional PA, US	P/N 2043950-00
Reach Professional PA, EU	P/N 2043950-01
Reach Professional PA, JP	P/N 2043950-02
Reach Professional PA, UK	P/N 2043950-03
Reach Professional PA, AU	P/N 2043950-04
Reach Professional PA, CN	P/N 2043950-05
Reach Professional PA, BZ (~120 V)	P/N 2043950-06

REACH DIMENSIONS

NOTES:
1. WEIGHT APPROX. 31.4 lb [14.2 kg].
2. SHIPPING WEIGHT APPROX. 37.3 lb [16.9 kg].

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°
	(X.XX) = REF DIMS NO TOLERANCE IMPLIED
THE INFORMATION CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL PROPERTY OF LOUD TECHNOLOGIES, INC. ALL RIGHTS RESERVED	TSC = THEORETICAL SHARP CORNER
	DIMENSIONS ACROSS CENTERLINES TO BE SYMMETRICAL

9.5 [241]

28.0 [711]

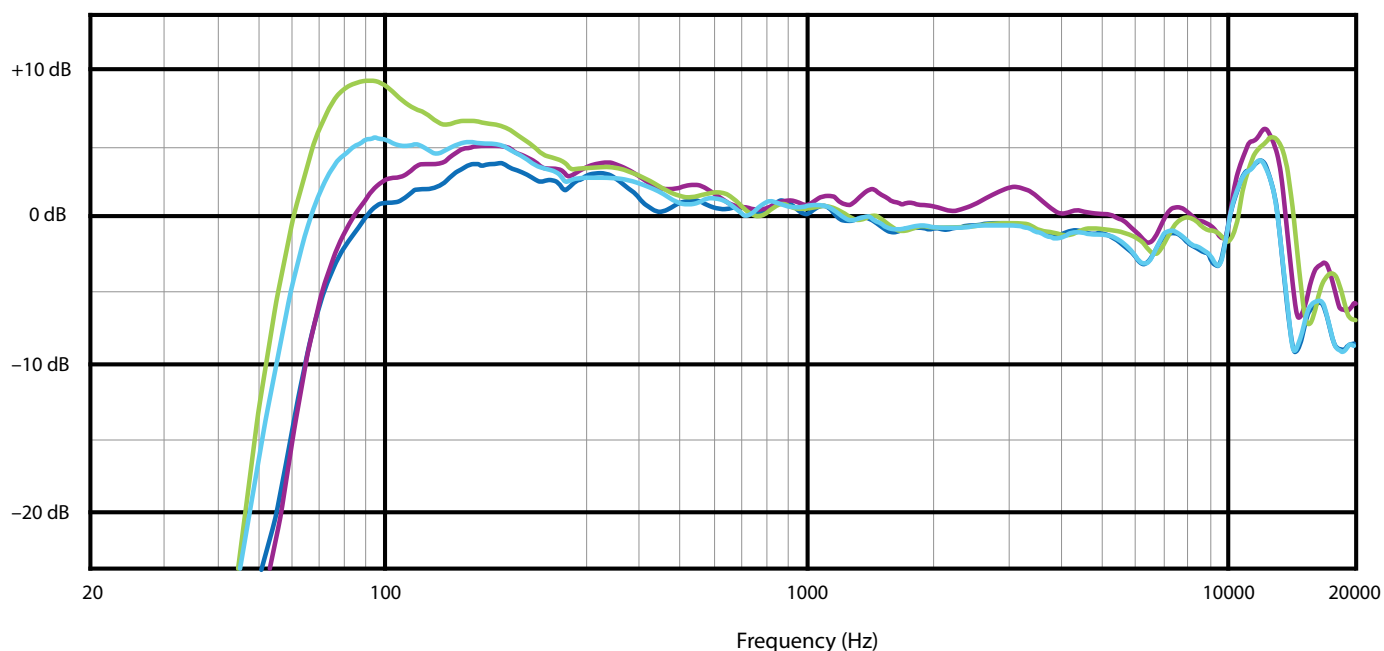8.6 [218]

REACH BLOCK DIAGRAM

REACH FREQUENCY RESPONSE LEGEND

PA Speaker Mode – This mode is full range, but focuses on mid-range clarity where vocals often reside.

Solo Speaker Mode – This mode features a low frequency roll-off to get rid of unwanted thumps and adds boost and sparkle to mid-range and high frequencies. This mode is perfect for plug-and-play singer-songwriters.
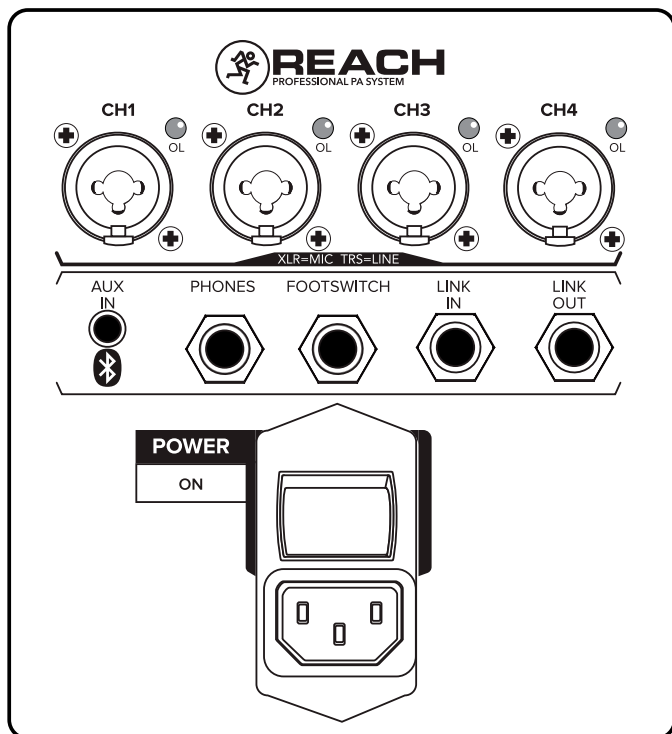
DJ Speaker Mode – This mode bumps the lows and highs, perfect for music playback.

Voice Speaker Mode – This mode features a significant low frequency roll-off to get rid of unwanted thumps. It also adds boost and sparkle to mid-range and high frequencies, critical for speech applications. This plug-and-play mode is perfect for larger venue applications where speech is the primary audio source in need of clear and precise intelligibility.
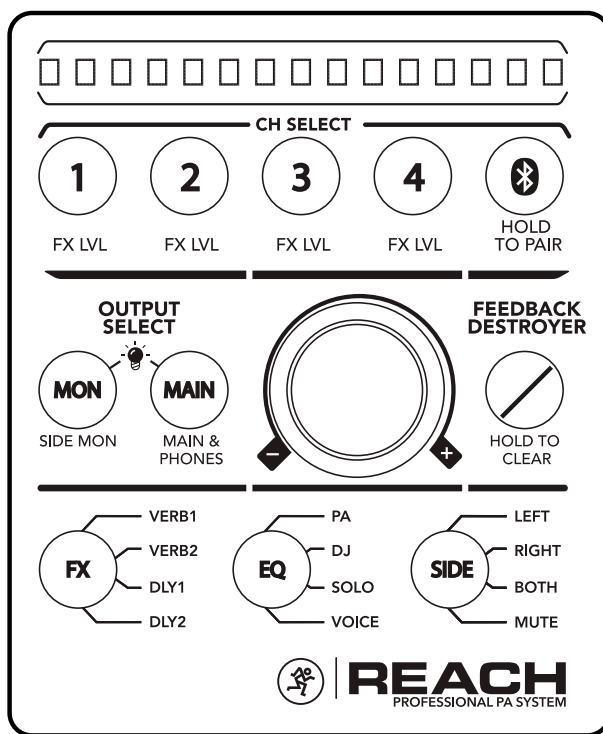
REACH FREQUENCY RESPONSE

REACH REAR PANEL

REACH
PROFESSIONAL PA SYSTEM

CH1   CH2   CH3   CH4

OL   OL   OL   OL

XLR=MIC   TRS=LINE

AUX IN   PHONES   FOOTSWITCH   LINK IN   LINK OUT

POWER

ON

REACH SIDE PANEL

CH SELECT

1   2   3   4

FX LVL   FX LVL   FX LVL   FX LVL   HOLD TO PAIR

OUTPUT SELECT   FEEDBACK DESTROYER

MON   MAIN

SIDE MON   MAIN & PHONES   HOLD TO CLEAR

FX   VERB1 / VERB2 / DLY1 / DLY2

EQ   PA / DJ / SOLO / VOICE

SIDE   LEFT / RIGHT / BOTH / MUTE

REACH
PROFESSIONAL PA SYSTEM

LOUD Technologies Inc. is always striving to improve our products by incorporating new and improved materials, components, and manufacturing methods. Therefore, we reserve the right to change these specifications at any time without notice.

"Mackie" and the "Running Man" figure are registered trademarks of LOUD Technologies Inc. All other brands mentioned are trademarks or registered trademarks of their respective holders, and are hereby acknowledged.

Electronic files for this product are available at:
www.mackie.com

Specification Sheet	Reach_SS.PDF
Owner's Manual	Reach_OM.PDF