

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.



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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 iOS¹ and Android² 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 [extended ambient temperature] | 0 to 40 °C 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

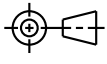
| | |
|------------------------------------|----------------|
| Reach Professional PA, US | P/N 2043950-00 |
| Reach Professional PA, EU | P/N 2043950-01 |
| Reach Professional PA, JP | P/N 2043950-02 |
| Reach Professional PA, UK | P/N 2043950-03 |
| Reach Professional PA, AU | P/N 2043950-04 |
| Reach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

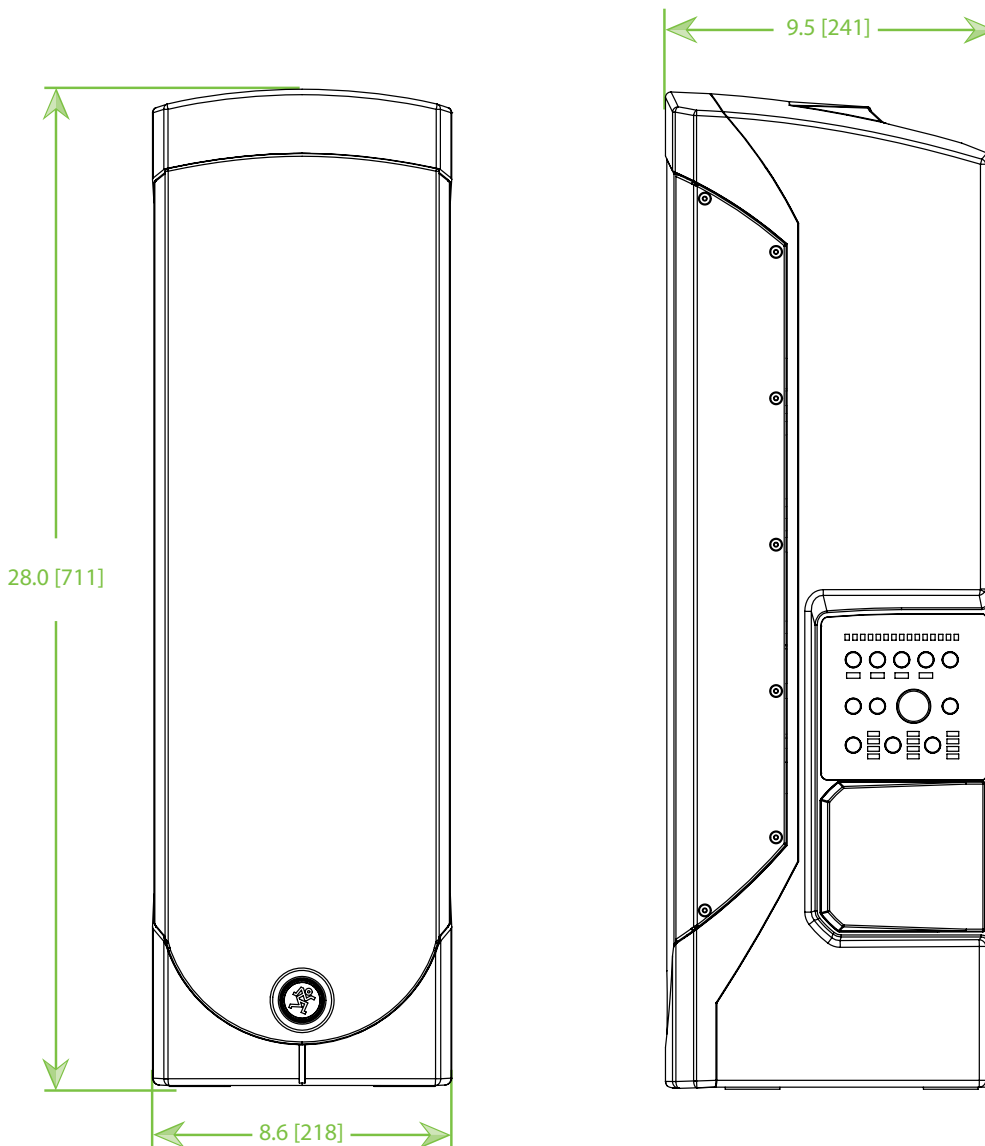


REACH DIMENSIONS

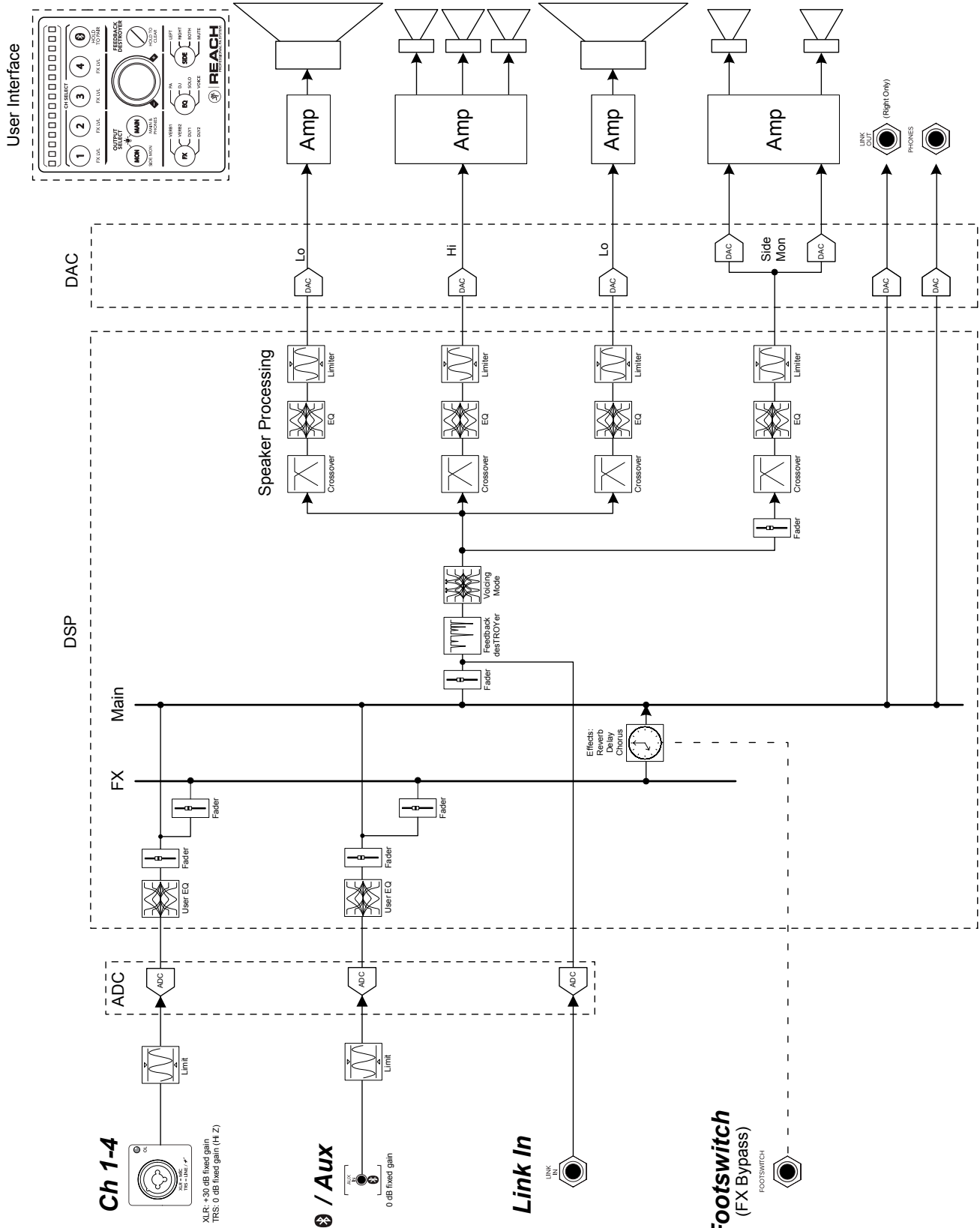
NOTES:

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

| | |
|---|---|
| <p>THIRD ANGLE PROJECTION</p>  | <p>UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES DUAL [MM] DIMENSIONS FOR REF ONLY</p> <p>TOLERANCE IN INCHES LINEAR ± 0.13 in / ± 3.3 mm ANGLES $\pm 1^\circ$</p> <p>(X.XX) = REF DIMS NO TOLERANCE IMPLIED</p> <p>TSC = THEORETICAL SHARP CORNER</p> <p>DIMENSIONS ACROSS CENTERLINES TO BE SYMMETRICAL</p> |
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REACH BLOCK DIAGRAM



REACH FREQUENCY RESPONSE LEGEND

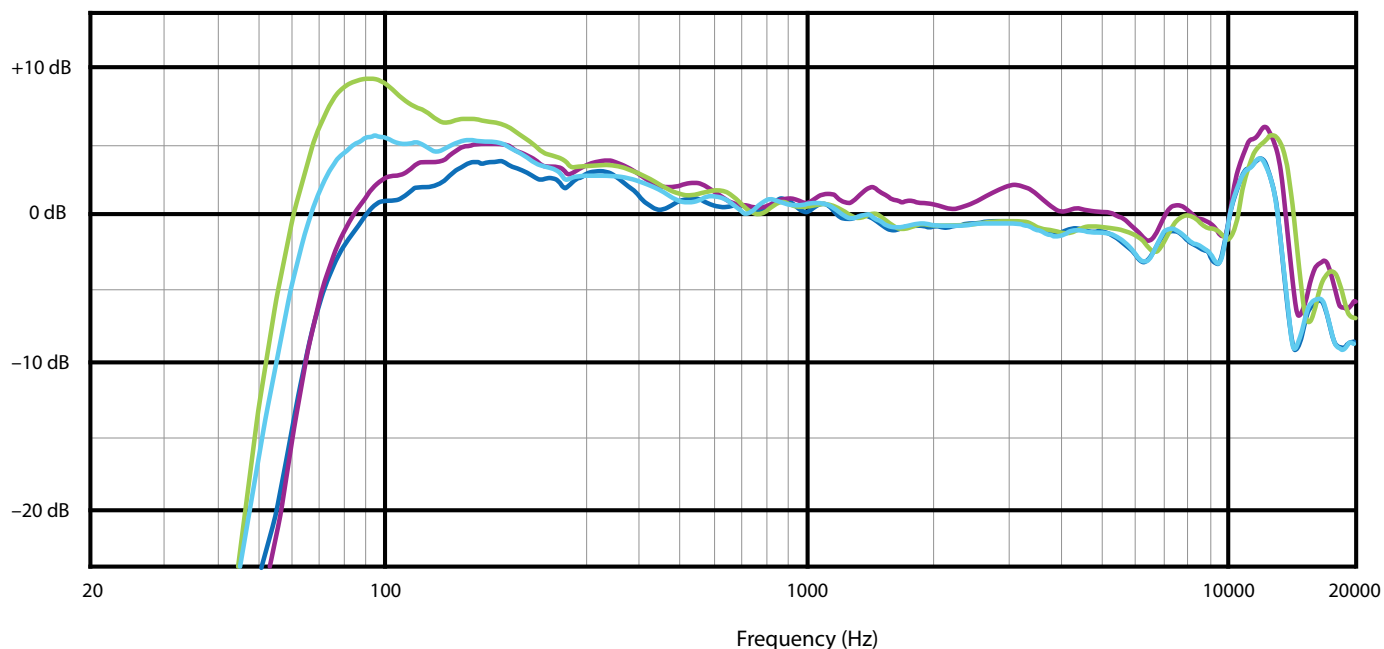
PA Speaker Mode – This mode is full range, but focuses on mid-range clarity where vocals often reside.

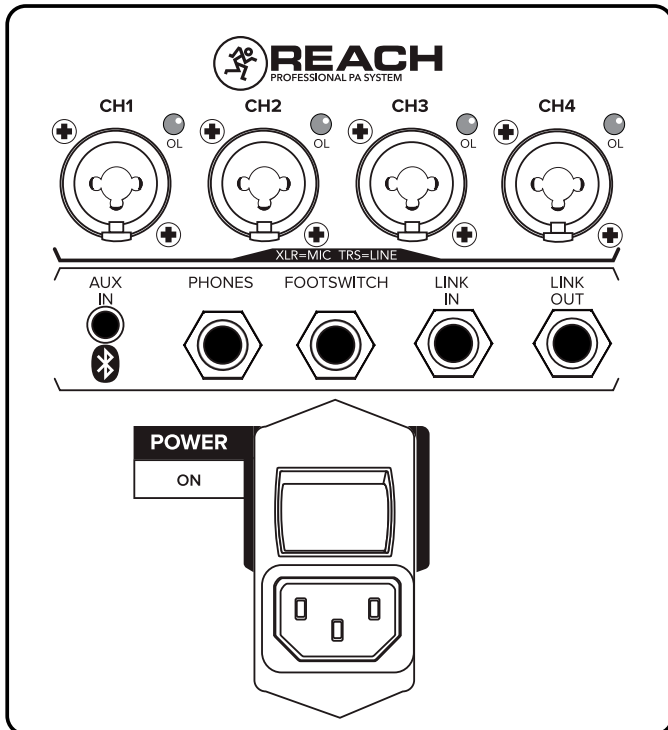
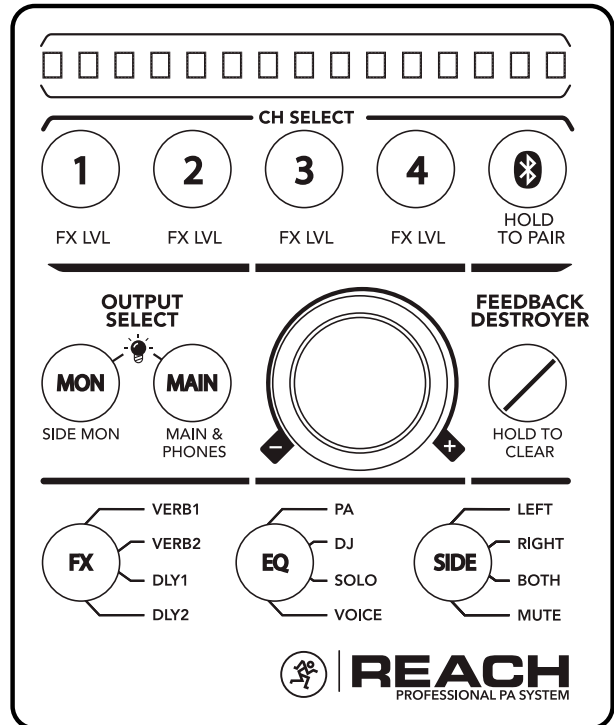
Solo Speaker Mode – This mode features a low frequency roll-off to get rid of unwanted thumps and adds boost and sparkle to mid-range and high frequencies. This mode is perfect for plug-and-play singer-songwriters.

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 SIDE PANEL


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.

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

Specification Sheet

Reach_SS.PDF

Owner's Manual

Reach_OM.PDF



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