THE EASIEST MULTI-SYSTEM WIRELESS WIRELESS WIRELESS SOLUTION

GLX-D® ADVANCED DIGITAL WIRELESS



GLX-D® Advanced Digital Wireless EXCEPTIONAL MULTI-SYSTEM RELIABILITY.

With exceptional audio clarity and award-winning features, GLX-D[®] Advanced Digital Wireless is the best choice to provide Houses of Worship, schools and music venues with seamless setup, intelligent rechargeability and superior multi-system wireless performance.

SYSTEM COMPONENTS

Frequency Manager

UA846Z2 GLX-D Frequency Manager

- Provides advanced frequency management to a linked receiver community for improved RF performance and increased channel count
- Link multiple receivers via RF ports for patented data communication and traditional antenna distribution
- Revolutionary intelligent frequency management quickly identifies the best frequencies
- Identifies and assigns optimal frequencies to receiver/transmitter pairs
- In case of interference, automatically and seamlessly transitions to backup frequencies
- Provides power to the GLXD4R receivers, eliminating need for power strips or multiple outlets.
- Globally-unlicensed 2.4 GHz frequency band

Wireless Receiver

GLXD4R Rack Mount Receiver

- Integrated battery charge port for intelligent Shure lithium-ion transmitter batteries, two-color charge indicator LED
- Detachable antennas for remote mounting
- Remote adjustable transmitter gain control
- Hi-res LCD screen status display
- XLR and ¼" output connectors
- Rugged metal chassis design
- Included rack mount hardware

Wireless Transmitters

GLXD1 Bodypack Transmitter GLXD2 Handheld Transmitter

- Automatically links to GLXD4R receiver
- Microphone Options

GLXD1 accommodates a variety of Shure microphone options including instrument, lavalier and head-worn options

GLXD2 provides legendary Shure microphone options including the industry-standard SM58®

• Operating Range

Indoors: Up to 100 feet (30 m) typical, with a maximum of 200 feet (60 m) under ideal conditions

Outdoors: Up to 65 feet (20 m) typical, with a maximum of 165 feet (50 m) under ideal conditions

- Up to 16 hours of use from a full charge
- Sophisticated design with durable, lightweight construction





Advanced Frequency Management

GLX-D[®] Advanced Digital Wireless products and accessories unlock and expand key GLX-D frequency management features making it easy to rely on seamless, crystal-clear audio.

1. Using One GLX-D Frequency Manager

- Connect up to six GLXD4R Rack Mount Receivers via the RF ports
- Remote mounted antennas should be connected to the system to minimize interference
- 2.4 GHz band is scanned to locate the best frequencies available
- Best frequencies are assigned to the receivers and transmitters, updating automatically if interference is detected



2. Using two GLX-D Frequency Managers

- Connect the antenna inputs of the second Frequency Manager to the corresponding cascade ports of the first Frequency Manager
- Enables confident operation of up to 9 simultaneous systems in typical conditions (11 in optimal conditions)
- Once set up correctly, a system of GLX-D Advanced Wireless products is ready to go at the flick of the power switch



REMOTE MOUNTING ACCESSORIES

Passive Directional Antenna



PA805Z2-RSMA

- Improved wireless reception: 8 dB of passive directional antenna gain
- Improved rejection of interference from 2.4GHz sources: 24dB front-to-back ratio for improved rejection of off access signals

Mounting Kit



UA505 Mounting Kit

Remote mount PA805Z2-RSMA and UA8-Z2 antennas in permanent installations

Antenna Cables

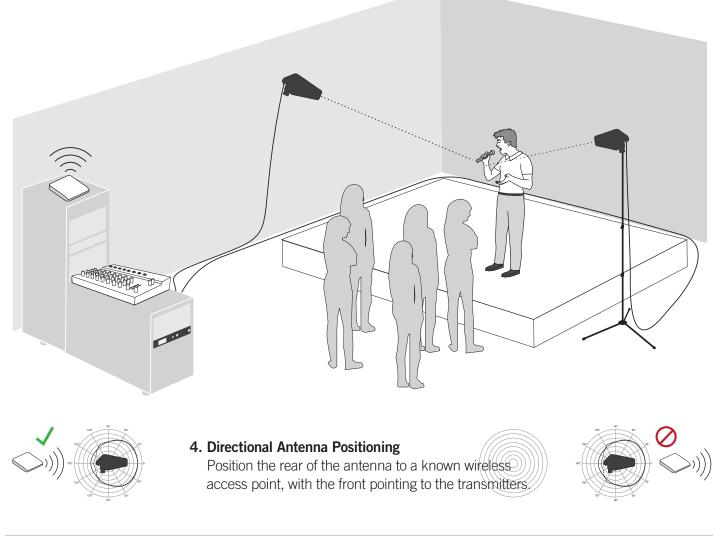


RSMA Cables 50 Ω coaxial RF cables available in lengths of 6, 25, 50 and 100 feet for installation-specific antenna placement

• Includes 10' RMSA cable

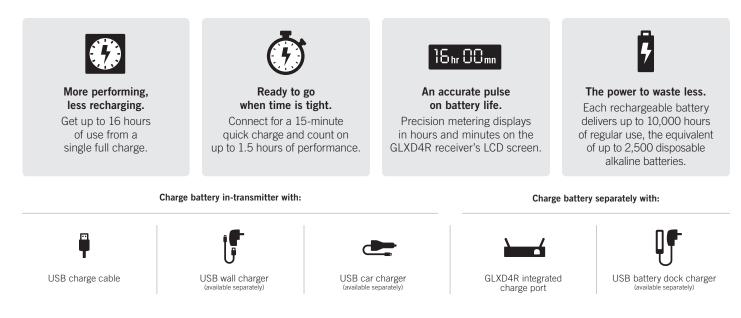
3. Remote Mount Placement

Remote mounted antennas should be positioned for maximum line-of-sight to the GLX-D transmitters



RECHARGEABLE POWER MANAGEMENT

GLX-D transmitters feature best-in-class lithium-ion batteries that quickly recharge using the charging port on the receiver, or a variety of optional USB connectors. Staying ready for the show has never been simpler.



GROUNDBREAKING WIRELESS TECHNOLOGY-THIS IS NOTHING SHORT OF A REVOLUTION.

SHURE

GLX-D[®] Advanced Digital Wireless is <u>the</u> bestsounding, easiest to use multi-system solution for small-to-medium houses of worship, education facilities and music performance venues.

System Specifications

Compatibility

Operate up to 9 compatible systems in typical setting, up to 11 maximum under ideal conditions

System Operating Range Indoors: Up to 100 feet (30 m) typical, with a maximum of 200 feet (60 m) under ideal conditions Outdoors: Up to 65 feet (20 m) typical, with a maximum of 165 feet (50 m) under ideal conditions

Transmit Mode Shure GLX-D Proprietary Digital

Audio Frequency Response 20 Hz – 20 kHz Note: Dependent on microphone type

Dynamic Range 120 dB, A-weighted

Latency Groups 1 and A: 4.0 ms Groups 2, 3, 4 and B: 7.3 ms

RF Sensitivity -88 dBm, typical

Total Harmonic Distortion 0.2%, typical

RF Output Power 10 mW E.I.R.P. max

Operating Temperature Range $-18\ ^\circ C\ (0\ ^\circ F)\ to\ 57\ ^\circ C\ (135\ ^\circ F)$ Note: Battery characteristics may limit

this range.
Storage Temperature Range

–29 °C (–20 °F) to 74 °C (165 °F)

Polarity

Positive pressure on microphone diaphragm (or positive voltage applied to tip of WA302 phone plug) produces positive voltage on pin 2 (with respect to pin 3 of low-impedance output) and the tip of the high impedance 1/4-inch output.

Battery Life Up to 16 hours

NOTE: All Specifications are subject to change. Performance may vary depending on country regulations and operating environment.

Transmitter Specifications

GLXD1 Bodypack Transmitter

 Dimensions
 90.4 × 64.5 × 22.9 mm

 (3.56 × 2.54 × 0.90 in.), H × W × D
 Power Requirements

 3.7 V Rechargeable Li-Ion
 3.7 V

Housing Cast Metal, Black Powdercoat Input Impedance

900 kΩ RF Output Power

10 mW E.I.R.P. max Transmitter Input

Connector 4-Pin male mini connector (TA4M)

Frequency Manager, Receiver & Antenna Specifications

UA846Z2 Frequency Manager

Power Requirements 15 VDC

DC Output 15 VDC (×6) Output Current Combined total from all DC outputs

3.8 A, maximum **Operating Temperature Range** –18 °C to 63 °C (0 °F to 145 °F)

Dimensions 45 × 483 × 192 mm (1.8 × 19 × 7.6 in) H × W × D

Net Weight

1.63 kg (3.6 lbs) **RF Input** *Connector Type* Reverse SMA *RF Frequency Range* 2400 to 2483.5 MHz *Receiver Port Isolation* 35 dB, typical *Impedance* 50 Ω *Maximum Antenna Input Power* -10 dBm *Maximum Receiver Port Input Power*

+15 dBm

Configuration

Antenna Type Internal Monopole

2: +5 V Bias

3: Audio

TA4M

Pin Assignments

1: Ground (cable shield)

(On instrument adapter

cable, pin 4 floats)

Maximum Input Level

(1 kHz at 1% THD) +8.4 dBV (7.5 Vp-p)

4: Tied through active load to ground

Unbalanced

RF Output Connector Type Reverse SMA RF Frequency Range 2400 to 2483.5 MHz Output Intercept Point (OIP3) 48 dBm, typical Impedance 50 Ω Reverse Isolation Output to Input 35 dB, typical Gain Input to any output port -3 to 0 dB GLXD4R Rack Mount Receiver Dimensions $42 \times 197 \times 163 \text{ mm}$

 $42 \times 197 \times 103$ mm (1.7 × 7.8 × 6.4 in.) H × W × D Weight 907.2 g (32 oz.) without batteries Housing

Power Requirements 14 to 18 VDC (tip positive with respect to ring) 550 mA

Spurious Rejection >35 dB, typical

Gain Adjustment Range -18 to 42 dB in 1 dB steps Phantom Power Protection Yes

Mic/Line Switch

 Receiver Antenna Input

 Impedance

 50 Ω

 Antenna Type

 ½ Wave Sleeve Dipole

 Maximum Input Level

 -20 dBm

Audio Output	XLR Output	6.35 mm (1/4") Output
Configuration	Balanced	Impedance balanced
Impedance	100 Ω	100 Ω (50 Ω, Unbalanced)
Full-Scale Output	LINE setting +18 dBV, MIC setting -12 dBV	+12 dBV
Pin Assignments	1=ground 2=hot 3=cold	Tip=audio Ring=no audio Sleeve=ground

GLXD2 Handheld Transmitter

Dimensions (SM58) 252 × 51 mm (9.9 × 2.0 in.) L × Dia.

Weight (SM58, without batteries) 267 g (9.4 oz.)

Power Requirements 3.7 V Rechargeable Li-Ion (Note: All preliminary specifications are subject to change.)

PA805Z2-RSMA Passive Directional Antenna

Frequency Range <2:1 Voltage Standing Wave Ration (VSWR) 2050 to 2700 MHz

Antenna Gain @ 2.45 GHz, typical 8 dBi

3 dB Horizontal Beam Width 100 degrees

Efficiency @2.45 GHz, typical 89%

Impedance 50 Ω

Polarization Linear

Front-to-back ratio @2.45 GHz, typical 24 dB

Connector Type Reverse SMA

 $\begin{array}{l} \textbf{Dimensions} \\ 105 \times 164 \times 27.5 \text{ mm} \\ (4.1 \times 6.5 \times 1.1 \text{ in.}) \text{ H} \times \text{W} \times \text{D} \end{array}$

Net Weight 2.5 oz. (70 g)

RF Output Power 10 mW E.I.R.P. max Maximum Input Level 145 dB SPL

Housing Molded Plastic

SHURE

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