

SHURE®

LEGENDARY
PERFORMANCE™



GLX-D® ADVANCED DIGITAL WIRELESS

THE EASIEST MULTI-SYSTEM WIRELESS SOLUTION

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 1/4" 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
- Includes 10' RMSA cable

Mounting Kit



UA505 Mounting Kit

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

Antenna Cables

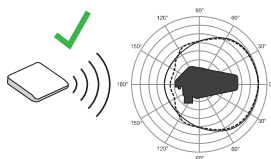
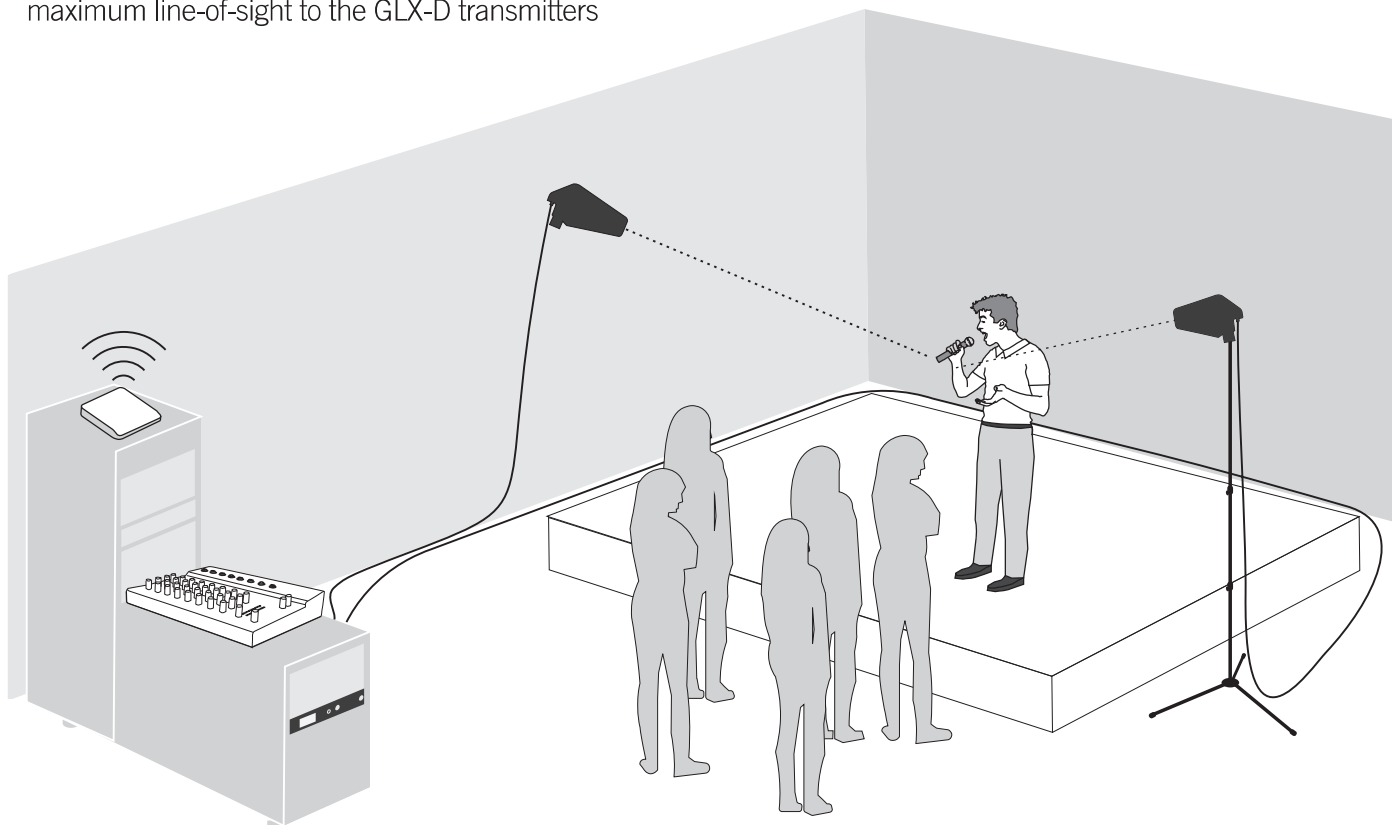


RSMA Cables

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

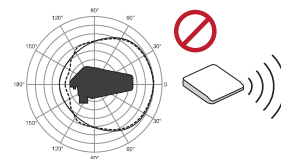
3. Remote Mount Placement

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



4. Directional Antenna Positioning

Position the rear of the antenna to a known wireless access point, with the front pointing to the 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.



More performing, less recharging.

Get up to 16 hours of use from a single full charge.



Ready to go when time is tight.

Connect for a 15-minute quick charge and count on up to 1.5 hours of performance.



An accurate pulse on battery life.

Precision metering displays in hours and minutes on the GLXD4R receiver's LCD screen.



The power to waste less.

Each rechargeable battery delivers up to 10,000 hours of regular use, the equivalent of up to 2,500 disposable alkaline batteries.

Charge battery in-transmitter with:



USB charge cable



USB wall charger
(available separately)



USB car charger
(available separately)



GLXD4R integrated
charge port



USB battery dock charger
(available separately)

**GROUNDBREAKING WIRELESS TECHNOLOGY—
THIS IS NOTHING SHORT OF A REVOLUTION.**

GLX-D® Advanced Digital Wireless is the best-sounding, 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 °C (0 °F) to 57 °C (135 °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.

Frequency Manager, Receiver & Antenna Specifications

(Note: All preliminary specifications are subject to change.)

UA846Z2 Frequency Manager

Power Requirements

15 VDC

DC Output

15 VDC (x6)

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

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 × 197 × 163 mm
(1.7 × 7.8 × 6.4 in.)
H × W × D

Weight

907.2 g (32 oz.) without batteries

Housing

Steel

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

30 dB Pad

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

PA805Z2-RSMA Passive Directional Antenna

Frequency Range

<2:1 Voltage Standing Wave Ratio (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

Dimensions

105 × 164 × 27.5 mm
(4.1 × 6.5 × 1.1 in.) H × W × D

Net Weight

2.5 oz. (70 g)

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

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)

Configuration

Unbalanced

Maximum Input Level

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

Antenna Type

Internal Monopole

Pin Assignments

TA4M

1: Ground (cable shield)

2: +5 V Bias

3: Audio

4: Tied through active load to ground
(On instrument adapter cable, pin 4 floats)

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

RF Output Power

10 mW E.I.R.P. max

Maximum Input Level

145 dB SPL

Housing

Molded Plastic

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