

# SLX-D

# DIGITAL WIRELESS SYSTEMS



Your performance should never be in question. Whether presenting, educating, praising or entertaining, your relationship with your audience is singular. With SLX-D Digital Wireless you can stand confidently on a strong foundation and build the wireless installation to match ongoing demands, from day-long conference to nighttime performances.

## ALWAYS COME THROUGH CLEAR

In front of an audience, clarity is simply essential. SLX-D provides crystal-clear digital audio quality with >120 dB dynamic range.

## DROPOUTS ARE OUT

From the leader in digital wireless technology, SLX-D maintains stable signals with high efficiency for rock-solid, reliable performance.

## KEEP THE SHOW GOING

Ready to perform for all-day conferences and nighttime performances—up to 8 hours of use from either 2 AA batteries (included) or optional Shure SB903 Li-ion rechargeable batteries and charging accessories.

## APPLICATIONS

Event, Presentation and Speech

House of Worship

Performance and Clubs

## PRODUCT HIGHLIGHTS

Extended 20 Hz to 20 kHz frequency range (microphone dependent)

120 dB dynamic range

Digital predictive switching diversity

19 MHz tuning bandwidth (694 - 703 MHz, 748 - 758 MHz)

Up to 23 preset compatible systems

Easy pairing of transmitters and receivers over IR scan and sync

Up to 8 hours from 2 AA batteries or optional Shure SB903 rechargeable battery

**SHURE**

# SLX-D DIGITAL WIRELESS SYSTEMS

## SYSTEM SPECIFICATIONS (SUBJECT TO CHANGE)

RF	
RF Carrier Frequency Range	694 – 703 MHz and 748 - 758 MHz (M55 Band for Thailand) Varies by Region. See Frequency Range and Output Power Table.
Working Range	100 m (328 ft) Note: Actual range depends on RF signal absorption, reflection and interference.
RF Tuning Step Size	JB Band: 125 kHz All Other Bands: 25 kHz Varies by region.
Image Rejection	>70 dB typical
RF Sensitivity	-97 dBm at 10 <sup>-5</sup> BER

## AUDIO

Latency	3.2 ms
Audio Frequency Response	20 Hz-20 kHz (+1, -2 dB)
Audio Dynamic Range A-weighted, typical	120 dB @1% THD
Total Harmonic Distortion	<0.02%
System Audio Polarity	XLR: Positive pressure on microphone diaphragm produces positive voltage on pin 2 with respect to pin 3 of XLR output. TRS: Positive pressure on microphone diaphragm produces positive voltage on the tip of the 6.35 mm (1/4-inch) with respect to the ring of the 6.35 mm output.
Mic Offset Range	0 to 21 dB (in 3 dB steps)

## TEMPERATURE RANGE Note: Battery characteristics may limit this range.

Operating Temperature Range	0 °F to 122 °F (-18 °C to 50 °C)
Storage Temperature Range	-20°F to 165°F (-29°C to 74°C)

NOTE: This Radio equipment is intended for use in musical professional entertainment and similar applications. This Radio apparatus may be capable of operating on some frequencies not authorized in your region. Please contact your national authority to obtain information on authorized frequencies and RF power levels for wireless microphone products.

## FREQUENCY RANGE

Band	Range (MHz)	Transmitter Output (mW)
G58	470 to 514	1/10
G59	470 to 514	1/10
G60	470 to 510	1/10
G61	479 to 523	1/10
G62	510 to 580	1/10
H55	514 to 558	1/10
H56	518 to 562	1/10
H57	520 to 564	1/10
J52	558 to 602; 614 to 616	1/10
J53	562 to 606	1/10
J54	562 to 606	1/10
JB	806 to 810	1/10
K59	606 to 650	1/10
L55	646 to 690	1/10
L56	650 to 694	1/10
L57	650 to 694	1/10
L58	630 to 674	1/10
L59	654 to 698	1/10
M55	694 to 703; 748 to 758	1/10
S50	823 to 832	1/10
X51	925 to 937.5	1/10

\*Note: Not all frequencies available in all regions. Contact your authorized Shure dealer for availability.

## AVAILABLE CONFIGURATIONS

SLXD14A-M55	Wireless System with SLXD1 Bodypack Transmitter and WA305 Instrument Cable	SLXD24A/SM58-M55	Wireless System with SM58 <sup>®</sup> Handheld Transmitter
SLXD14A/83-M55	Wireless System with SLXD1 Bodypack Transmitter and WL183 Lavalier Microphone	SLXD24A/SM86-M55	Wireless System with SM86 Handheld Transmitter
SLXD14A/85-M55	Wireless System with SLXD1 Bodypack Transmitter and WL185 Lavalier Microphone	SLXD24A/B58-M55	Wireless System with Beta <sup>®</sup> 58A Handheld Transmitter
SLXD14A/93-M55	Wireless System with SLXD1 Bodypack Transmitter and WL93 Miniature Lavalier Microphone	SLXD24A/B87A-M55	Wireless System with Beta <sup>®</sup> 87A Handheld Transmitter
SLXD14A/153B-M55	Wireless System with SLXD1 Bodypack Transmitter and MX153 (Black) Omni. Condenser Earset	SLXD24A/B87C-M55	Wireless System with Beta <sup>®</sup> 87C Handheld Transmitter
SLXD14A/153T-M55	Wireless System with SLXD1 Bodypack Transmitter and MX153 (Tan) Omni. Condenser Earset	SLXD24A/K88-M55	Wireless System with KSM8 Dualdyne <sup>™</sup> Handheld Transmitter
SLXD14A/98H-M55	Wireless System with SLXD1 Bodypack Transmitter and Beta <sup>®</sup> 98H/C Miniature Instrument Microphone	SLXD24DA/SM58-M55	Dual Wireless System with 2 SLXD2/SM58 Handheld Transmitters
SLXD14A/SM35-M55	Wireless System with SLXD1 Bodypack Transmitter and SM35 Headset Microphone	SLXD24DA/B58-M55	Dual Wireless System with 2 SLXD2/B58 Handheld Transmitters
SLXD124A/85-M55	Handheld and Lavalier Combo Wireless System	SLXD14DA-M55	Dual Wireless System with two SLXD1 Bodypack Transmitters

Not all systems are available in all regions. Contact your Authorized Shure Dealer for availability in your region.

## OPTIONAL ACCESSORIES (SEE SHURE.COM FOR MORE)

SB903	Shure Lithium Ion Rechargeable Battery	UABIAST	In-Line Power Supply	UA221	UHF Passive Antenna Splitter
SBC203	Dual Docking Charger	UA834	Inline Antenna Amplifier	UA600	Front Mount Antenna Kit
SBC10-903	Single Battery Charger	UA874	Active Directional Antennas	UA505	Remote Antenna Bracket with BNC Bulkhead Adapter
UA8	Half-Wave Omnidirectional Receiver Antennas	PA805SWB	Directional Wideband Antenna, 470-952 MHz	HA-8089	Helical Antenna
UA844+SWB	Antenna/Power Distribution System 470-960 MHz	PA805X	Directional Wideband Antenna, 650-1100 MHz		
UA845UWB	Ultra Wideband Antenna/Power Distribution System, 174-1804 MHz	UA860	Passive Omnidirectional Antenna, 470-1100 MHz		

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# SLXD4 DIGITAL WIRELESS RECEIVER

## SPECIFICATIONS

(SUBJECT TO CHANGE)

Dimensions (H × W × D)	1.65 × 7.76 × 5.98 in (42 × 197 × 152 mm)
Weight	1.8 lb (816 g) without antennas
Housing	Galvanized Steel
Power Requirements	15 VDC @ 600 mA Supplied by external power supply (tip positive)

### RF INPUT

Spurious Rejection	>75 dB Typical
Connector Type	BNC
Impedance	50 Ω

### AUDIO OUTPUT

Gain Adjustment Range	-18 to +42 dB in 1 dB steps
Configuration	1/4" (6.35 mm): Balanced (Tip=audio +, Ring=audio -, Sleeve=ground)  XLR: Balanced (1=ground, 2=audio +, 3=audio -)
Impedance	1/4" (6.35 mm): 1.3 kΩ (670 Ω Unbalanced) XLR (line): 400 Ω (200 Ω Unbalanced) XLR (mic): 150 Ω
Full Scale Output	1/4" (6.35 mm): +15 dBV differentially (+9 dBV single)  XLR (LINE setting): +15 dBV XLR (MIC setting): -15 dBV
Mic/Line Switch	30 dB pad
Phantom Power Protection	1/4" (6.35 mm): Yes XLR: Yes

### NETWORKING

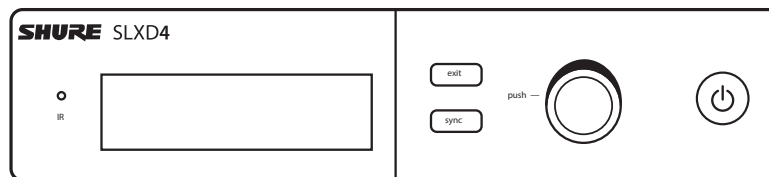
Network Interface	Single Port Ethernet 10/100 Mbps
Network Addressing Capability	DHCP or Manual IP address
Maximum Cable Length	100 m (328 ft)

## OVERVIEW

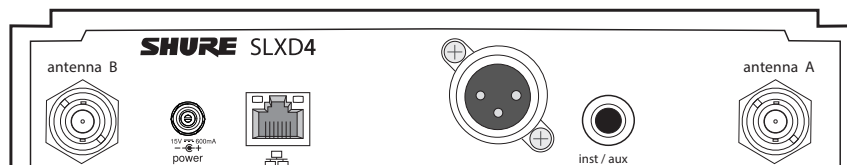
SLX-D Digital Wireless delivers transparent, 24-bit digital audio and rock solid RF performance with easy setup and rechargeability options in a suite of versatile wireless system configurations. Featuring industry-leading digital wireless technology and design, the SLXD4 easily syncs wireless transmitters. A variety of interchangeable vocal microphone choices guarantees the right solution for a wide range of applications, from day-long conference to nighttime performances.

## FEATURES

- Transparent 24-bit digital audio
- Extended 20 Hz to 20 kHz frequency range (microphone dependent)
- 120 dB dynamic range
- Digital predictive switching diversity
- 19 MHz tuning bandwidth (694 - 703 MHz, 748 - 758 MHz)
- Up to 23 preset compatible systems
- Easy pairing of transmitters and receivers over scan and IR sync
- Rugged metal construction



SLXD4  
Front Panel



SLXD4  
Back Panel

# SLXD4D DUAL-CHANNEL DIGITAL WIRELESS RECEIVER

## SPECIFICATIONS

(SUBJECT TO CHANGE)

Dimensions (H x W x D)	1.65 x 15.5 x 5.98 in (42 x 393 x 152 mm)
Weight	3.2 lb (1451 g) without antennas
Housing	Galvanized Steel
Power Requirements	15 VDC @ 600 mA Supplied by external power supply (tip positive)

### RF INPUT

Spurious Rejection	>75 dB Typical
Connector Type	BNC
Impedance	50 Ω

### AUDIO OUTPUT

Gain Adjustment Range	-18 to +42 dB in 1 dB steps
Configuration	1/4" (6.35 mm): Balanced (Tip=audio +, Ring=audio -, Sleeve=ground)  XLR: Balanced (1=ground, 2=audio +, 3=audio -)
Impedance	1/4" (6.35 mm): 1.3 kΩ (670 Ω Unbalanced) XLR (line): 400 Ω (200 Ω Unbalanced) XLR (mic): 150 Ω
Full Scale Output	1/4" (6.35 mm): +15 dB differentially (+9 dBV single)  XLR (LINE setting): +15 dBV XLR (MIC setting): -15 dBV
Mic/Line Switch	30 dB pad
Phantom Power Protection	1/4" (6.35 mm): Yes XLR: Yes

### NETWORKING

Network Interface	Single Port Ethernet 10/100 Mbps
Network Addressing Capability	DHCP or Manual IP address
Maximum Cable Length	100 m (328 ft)

## OVERVIEW

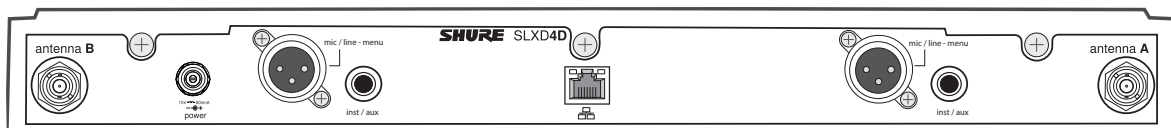
SLX-D Digital Wireless delivers transparent, 24-bit digital audio and rock solid RF performance with easy setup and rechargeability options in a suite of versatile wireless system configurations. Featuring industry-leading digital wireless technology and design, the SLXD4D easily syncs wireless transmitters. A variety of interchangeable vocal microphone choices guarantees the right solution for a wide range of applications, from day-long conference to nighttime performances.

## FEATURES

- Transparent 24-bit digital audio
- Extended 20 Hz to 20 kHz frequency range (microphone dependent)
- 120 dB dynamic range
- Digital predictive switching diversity
- 19 MHz tuning bandwidth (694 - 703 MHz, 748 - 758 MHz)
- Up to 23 preset compatible systems
- Easy pairing of transmitters and receivers over scan and IR sync
- Rugged metal construction



SLXD4D  
Front Panel



SLXD4D  
Back Panel

# SLXD1 DIGITAL WIRELESS BODYPACK TRANSMITTER

## SPECIFICATIONS

(SUBJECT TO CHANGE)

Battery Type	Rechargeable Li-Ion or 1.5 V AA batteries
Dimensions (H x W x D)	3.86 x 2.68 x 1.0 in (98 x 68 x 25.5 mm)
Weight	3.1 oz (89 g)
Housing	PC/ABS

### AUDIO INPUT

Connector	4-Pin male mini connector (TA4M)
Configuration	Unbalanced
Impedance	1 MΩ
Maximum Input Level	8.2 dBV (2.57 Vrms, 7.27 Vpp)
Preamplifier Equivalent Input Noise (EIN)	-118 dBV

### RF OUTPUT

Antenna Type	1/4 Wave
Occupied Bandwidth	<200 kHz
Modulation Type	Shure Proprietary Digital
Power	1 mW/10 mW Varies by region. See Frequency Range and Output Power Table.

### MICROPHONE OPTIONS SEE SHURE.COM FOR MORE OPTIONS

WL183	Omnidirectional Condenser Lavalier Microphone
WL185	Cardioid Condenser Lavalier Microphone
WL93	Omnidirectional Miniature Condenser Microphone
MX153T	Microflex <sup>®</sup> Headworn Earset Microphone, Tan
MX153B	Microflex <sup>®</sup> Headworn Earset Microphone, Black
SM35	Cardioid Condenser Headworn Microphone
WB98H/C	Beta <sup>®</sup> 98H/C Clip-On Condenser Instrument Microphone
WA305	1/4" Locking Instrument Cable

## OVERVIEW

SLX-D Digital Wireless delivers transparent, 24-bit digital audio and rock solid RF performance with easy setup and rechargeability options in a suite of versatile wireless system configurations. Featuring industry-leading digital wireless technology and design, the SLXD1 easily syncs with a wireless receiver. TQG connectivity to a variety of microphone options guarantees the right solution for a wide range of applications, from day-long conference to nighttime performances.

## FEATURES

- Transparent 24-bit digital audio
- Extended 20 Hz to 20 kHz frequency range (microphone dependent)
- 120 dB dynamic range
- Digital predictive switching diversity
- 19 MHz tuning bandwidth (694 - 703 MHz, 748 - 758 MHz)
- Up to 23 preset compatible systems
- Easy pairing of transmitters and receivers over scan and IR sync
- Up to 8 hours from 2 AA batteries or optional Shure SB903 rechargeable battery
- TQG connectivity offers a variety of microphone options
- Ergonomic, durable plastic construction



SLXD1  
Bodypack Transmitter

# SLXD2 DIGITAL WIRELESS HANDHELD TRANSMITTER

## SPECIFICATIONS

(SUBJECT TO CHANGE)

Battery Type	Rechargeable Li-Ion or 1.5 V AA batteries
Dimensions (Dia. x L)	1.46 x 6.93 in (37.1 x 176 mm)
Weight	5.2 oz. (147 g)
Housing	Aluminum

## AUDIO INPUT

Configuration	Unbalanced
Maximum Input Level	8.2 dBV (2.57 Vrms, 7.27 Vpp) Note: Dependent on Microphone Type

## RF OUTPUT

Antenna Type	Integrated Single-Band Helical
Occupied Bandwidth	<200 kHz
Modulation Type	Shure Proprietary Digital
Power	1 mW/10 mW Varies by region. See Frequency Range and Output Power Table.

## MICROPHONE OPTIONS SEE SHURE.COM FOR MORE OPTIONS

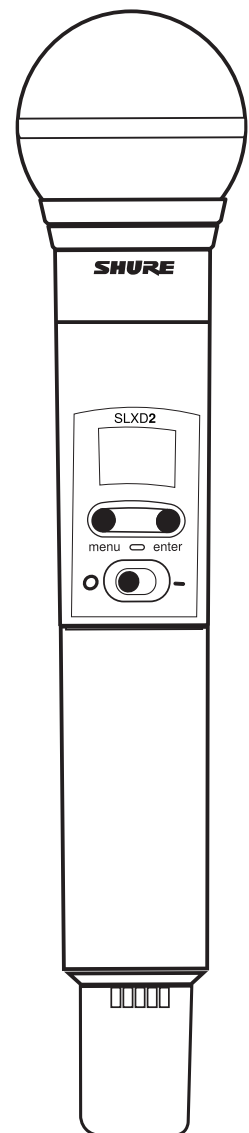
SM58*	Industry Standard Cardioid Dynamic Vocal Microphone
Beta* 87A	Supercardioid Condenser Vocal Microphone
Beta* 87C	Cardioid Condenser Vocal Microphone
SM86	Cardioid Condenser Vocal Microphone
KSM8	Dual-Diaphragm Dynamic Vocal Microphone

## OVERVIEW

SLX-D Digital Wireless delivers transparent, 24-bit digital audio and rock solid RF performance with easy setup and rechargeability options in a suite of versatile wireless system configurations. Featuring industry-leading digital wireless technology and design, the SLXD2 easily syncs with a wireless receiver. A variety of interchangeable vocal microphone choices guarantees the right solution for a wide range of applications, from day-long conference to nighttime performances.

## FEATURES

- Transparent 24-bit digital audio
- Extended 20 Hz to 20 kHz frequency range (microphone dependent)
- 120 dB dynamic range
- Digital predictive switching diversity
- 19 MHz tuning bandwidth (694 - 703 MHz, 748 - 758 MHz)
- Up to 23 preset compatible systems
- Easy pairing of transmitters and receivers over scan and IR sync
- Up to 8 hours from 2 AA batteries or optional Shure SB903 rechargeable battery
- Interchangeable microphone capsules
- Rugged metal construction



SLXD2  
Handheld Transmitter

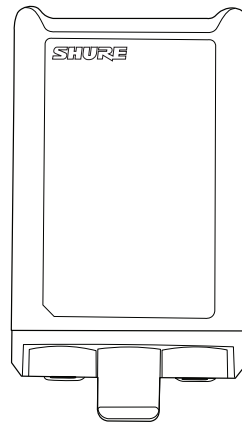
# SLX-D DIGITAL WIRELESS RECHARGEABLE POWER MANAGEMENT

## SPECIFICATIONS

(SUBJECT TO CHANGE)

### SB903 LI-ION RECHARGEABLE BATTERY

Charge Voltage	4.2 V ( $\pm 0.03$ V)
Charge Current	SBC10-903: 220 mA SBC203: 625 mA (normal) 250 mA (reduced)
Nominal Voltage	3.6 V
Nominal Capacity	1200 mAh
Housing	Molded Polycarbonate
Charging Temperature Range	SBC10-903: 50 °F to 113 °F (10 °C to 45 °C) SBC203: 50 °F to 113 °F (10 °C to 45 °C), normal 32 °F to 50 °F (0 °C to 10 °C), reduced
Dimensions (H x W x L)	0.57 x 1.28 x 2.19 in (14.5 x 32.5 x 55.5 mm)
Weight	1 oz. (28 g)



SB903  
Rechargeable Lithium Ion Battery

### SB903 LITHIUM-ION RECHARGEABLE BATTERY

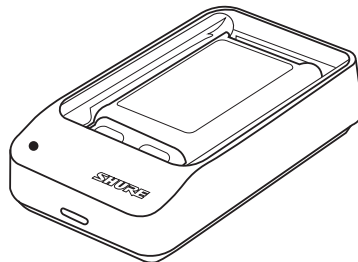
Want to know the exact amount of battery charge left? SB903 rechargeable lithium-ion batteries unlock real-time battery life and battery health features for SLX-D Digital Wireless transmitters.

### SBC10-903 SINGLE BATTERY CHARGING SLED

DC Input Voltage Range	5 VDC
Charge Current	220 mA USB-powered
Charge Time	50%: 3 hours 100%: 5 hours, 30 minutes
Charge Voltage	4.2 V
Charging Temperature Range	50 °F to 113 °F 10 °C to 45 °C
Dimensions (H x W x L)	0.81 x 1.48 x 3.13 in (20.5 x 37.5 x 79.5 mm)
Weight	1.3 oz (39 g)
Housing	Molded Polycarbonate

#### POWER SUPPLY

Input Voltage Range	100 to 240 VAC
Operating Frequency	50 to 60 Hz
Maximum Input Power	0.2 A at 100 VAC full load
Output Voltage	4.75 to 5.25 VDC
Maximum Output Power	1.0 A at 5 VDC
Charging Temperature Range	32 °F to 140 °F (0 °C to 60 °C)



SBC10-903  
Single Battery Charging Sled

### SBC10-903 SINGLE BATTERY CHARGER FOR SB903 BATTERY

USB single battery charger can be powered from A/C power sources and USB ports to charge one Shure SB903 Lithium-Ion Rechargeable Battery for use with SLX-D Digital Wireless Transmitters.

# SLX-D DIGITAL WIRELESS RECHARGEABLE POWER MANAGEMENT

## SPECIFICATIONS

(SUBJECT TO CHANGE)

### SBC203 DUAL-DOCKING RECHARGING STATION

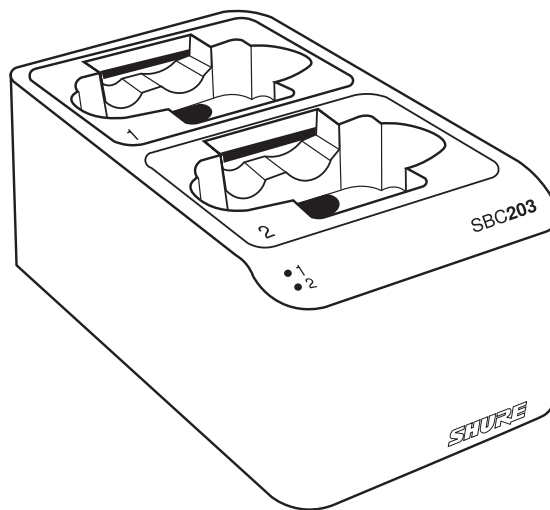
Charge Current	625 mA or 250 mA Lower current used when using another power source, or operating between 32 °F and 50 °F (0 °C and 10 °C)
Charge Time	50%: 1 hour, 15 minutes 100%: 2 hours, 30 minutes
External Power Supply	SBC10-USB15W or SBC10-USB15WS
Power Requirements	5 VDC, 3 A max
Charging Temperature Range for Battery	32 °F to 113 °F (0 °C to 45 °C)
Dimensions (H × W × L)	2.6 × 3.9 × 6.5 in 66 × 99 × 165 mm
Weight	10.0 oz (284 g)
Housing	ABS

### POWER SUPPLY

Input Voltage Range	100 to 240 VAC
Operating Frequency	50 to 60 Hz
Maximum Input Power	0.6 A at 100 VAC full load
Output Voltage	4.75 to 5.25 VDC
Maximum Output Power	3.0 A at 5 V
Operating Temperature Range	32 °F to 140 °F (0 °C to 60 °C)

## SBC203 DUAL-DOCKING RECHARGING STATION FOR SB903 LITHIUM-ION BATTERY

Dual docking recharging station charges two SB903 lithium-ion batteries in or out of their transmitters. Built to charge two batteries, two body pack transmitters, two handheld transmitters or any pairing of two SLX-D transmitters or SB903 batteries.



SBC203  
Dual-Docking Recharging Station