

# 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

44 MHz tuning bandwidth (region dependent)

32 available channels per frequency band (region dependent)

Up to 10 compatible systems per 6MHz TV band; 12 systems per 8 MHz band

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

# SLX-D DIGITAL WIRELESS SYSTEMS

## SYSTEM SPECIFICATIONS (SUBJECT TO CHANGE)

### RF

<b>RF Carrier Frequency Range</b>	470-937.5 MHz <i>Varies by Region. See Frequency Range and Output Power Table.</i>
<b>Working Range</b>	100 m (328 ft) <i>Note: Actual range depends on RF signal absorption, reflection and interference.</i>
<b>RF Tuning Step Size</b>	JB Band: 125 kHz All Other Bands: 25 kHz <i>Varies by region.</i>
<b>Image Rejection</b>	>70 dB <i>typical</i>
<b>RF Sensitivity</b>	-97 dBm at 10 <sup>-6</sup> BER

### AUDIO

<b>Latency</b>	3.2 ms
<b>Audio Frequency Response</b>	20 Hz-20 kHz (+1, -2 dB)
<b>Audio Dynamic Range</b> <i>A-weighted, typical</i>	120 dB <i>@1% THD</i>
<b>Total Harmonic Distortion</b>	<0.02%
<b>System Audio Polarity</b>	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.
<b>Mic Offset Range</b>	0 to 21 dB (in 3 dB steps)

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

<b>Operating Temperature Range</b>	0 °F to 122 °F (-18 °C to 50 °C)
<b>Storage Temperature Range</b>	-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	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

<b>SLXD14</b>	Wireless System with SLXD1 Bodypack Transmitter and WA305 Instrument Cable	<b>SLXD24/SM58</b>	Wireless System with SM58® Handheld Transmitter
<b>SLXD14/83</b>	Wireless System with SLXD1 Bodypack Transmitter and WL183 Lavalier Microphone	<b>SLXD24/SM86</b>	Wireless System with SM86 Handheld Transmitter
<b>SLXD14/85</b>	Wireless System with SLXD1 Bodypack Transmitter and WL185 Lavalier Microphone	<b>SLXD24/B58</b>	Wireless System with Beta® 58A Handheld Transmitter
<b>SLXD14/93</b>	Wireless System with SLXD1 Bodypack Transmitter and WL93 Miniature Lavalier Microphone	<b>SLXD24/B87A</b>	Wireless System with Beta® 87A Handheld Transmitter
<b>SLXD14/153B</b>	Wireless System with SLXD1 Bodypack Transmitter and MX153 (Black) Omni. Condenser Earset	<b>SLXD24/B87C</b>	Wireless System with Beta® 87C Handheld Transmitter
<b>SLXD14/153T</b>	Wireless System with SLXD1 Bodypack Transmitter and MX153 (Tan) Omni. Condenser Earset	<b>SLXD24/K8B</b>	Wireless System with KSM8 Dualdyne™ Handheld Transmitter
<b>SLXD14/98H</b>	Wireless System with SLXD1 Bodypack Transmitter and Beta® 98H/C Miniature Instrument Microphone	<b>SLXD24D/SM58</b>	Dual Wireless System with 2 SLXD2/SM58 Handheld Transmitters
<b>SLXD14/SM35</b>	Wireless System with SLXD1 Bodypack Transmitter and SM35 Headset Microphone	<b>SLXD24D/B58</b>	Dual Wireless System with 2 SLXD2/B58 Handheld Transmitters
<b>SLXD124/85</b>	Handheld and Lavalier Combo Wireless System	<b>SLXD14D</b>	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)

<b>SB903</b>	Shure Lithium Ion Rechargeable Battery	<b>UABIAS1</b>	In-Line Power Supply	<b>UA221</b>	UHF Passive Antenna Splitter
<b>SBC203</b>	Dual Docking Charger	<b>UA834</b>	Inline Antenna Amplifier	<b>UA600</b>	Front Mount Antenna Kit
<b>SBC10-903</b>	Single Battery Charger	<b>UA874</b>	Active Directional Antennas	<b>UA505</b>	Remote Antenna Bracket with BNC Bulkhead Adapter
<b>UA8</b>	Half-Wave Omnidirectional Receiver Antennas	<b>PA805SWB</b>	Directional Wideband Antenna, 470-952 MHz	<b>HA-8089</b>	Helical Antenna
<b>UA844+SWB</b>	Antenna/Power Distribution System 470-960 MHz	<b>PA805X</b>	Directional Wideband Antenna, 650-1100 MHz		
<b>UA845UWB</b>	Ultra Wideband Antenna/Power Distribution System, 174-1804 MHz	<b>UA860</b>	Passive Omnidirectional Antenna, 470-1100 MHz		



# SLXD4 DIGITAL WIRELESS RECEIVER

## SPECIFICATIONS

(SUBJECT TO CHANGE)

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

## RF INPUT

<b>Spurious Rejection</b>	>75 dB <i>Typical</i>
<b>Connector Type</b>	BNC
<b>Impedance</b>	50 Ω

## AUDIO OUTPUT

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

## NETWORKING

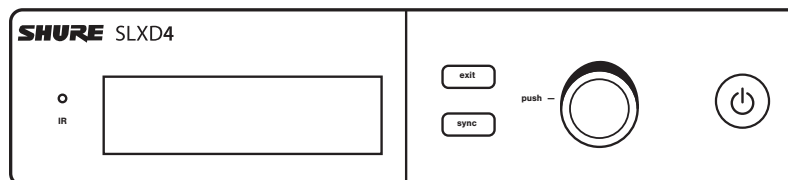
<b>Network Interface</b>	Single Port Ethernet 10/100 Mbps
<b>Network Addressing Capability</b>	DHCP or Manual IP address
<b>Maximum Cable Length</b>	100 m (328 ft)

## OVERVIEW

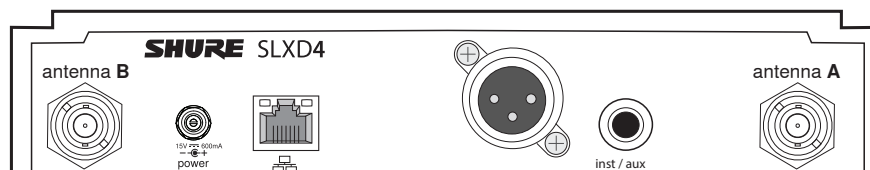
SLX-D Digital Wireless delivers transparent, 24-bit digital audio and rock solid RF performance with easy setup and rechargeability options in a suite of versatile wireless system configurations. Featuring industry-leading digital wireless technology and design, the SLXD4 easily syncs wireless transmitters. 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
- 44 MHz tuning bandwidth (region dependent)
- 32 available channels per frequency band (region dependent)
- Up to 10 compatible systems per 6MHz TV band; 12 systems per 8 MHz band
- 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)

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

### RF INPUT

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

### AUDIO OUTPUT

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

### NETWORKING

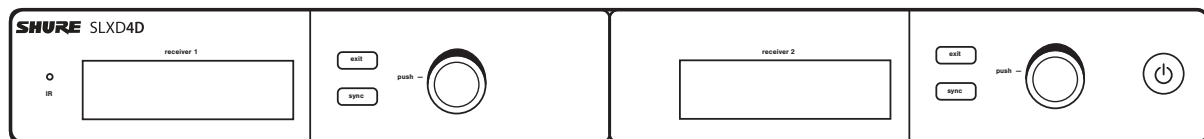
<b>Network Interface</b>	Single Port Ethernet 10/100 Mbps
<b>Network Addressing Capability</b>	DHCP or Manual IP address
<b>Maximum Cable Length</b>	100 m (328 ft)

## OVERVIEW

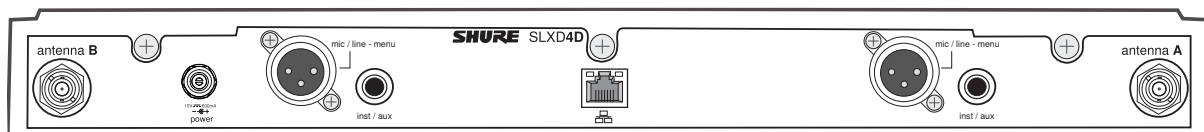
SLX-D Digital Wireless delivers transparent, 24-bit digital audio and rock solid RF performance with easy setup and rechargeability options in a suite of versatile wireless system configurations. Featuring industry-leading digital wireless technology and design, the SLXD4D easily syncs wireless transmitters. 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
- 44 MHz tuning bandwidth (region dependent)
- 32 available channels per frequency band (region dependent)
- Up to 10 compatible systems per 6MHz TV band; 12 systems per 8 MHz band
- 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)

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

### AUDIO INPUT

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

### RF OUTPUT

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

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

<b>WL183</b>	Omnidirectional Condenser Lavalier Microphone
<b>WL185</b>	Cardioid Condenser Lavalier Microphone
<b>WL93</b>	Omnidirectional Miniature Condenser Microphone
<b>MX153T</b>	Microflex® Headworn Earset Microphone, Tan
<b>MX153B</b>	Microflex® Headworn Earset Microphone, Black
<b>SM35</b>	Cardioid Condenser Headworn Microphone
<b>WB98H/C</b>	Beta® 98H/C Clip-On Condenser Instrument Microphone
<b>WA305</b>	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
- 44 MHz tuning bandwidth (region dependent)
- 32 available channels per frequency band (region dependent)
- Up to 10 compatible systems per 6MHz TV band; 12 systems per 8 MHz band
- 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)

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

## AUDIO INPUT

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

## RF OUTPUT

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

## MICROPHONE OPTIONS SEE SHURE.COM FOR MORE OPTIONS

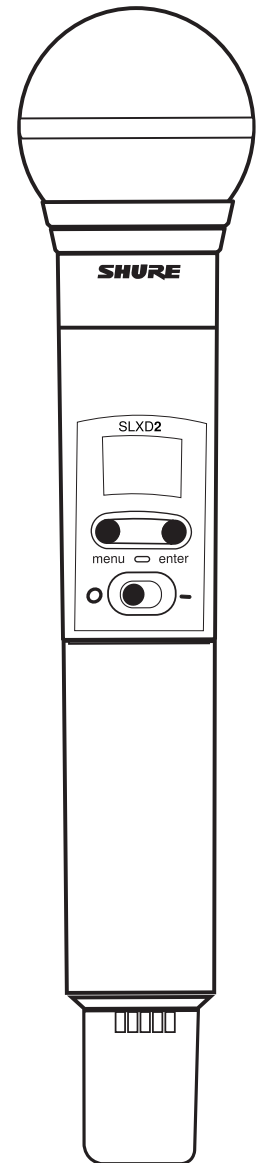
<b>SM58<sup>®</sup></b>	Industry Standard Cardioid Dynamic Vocal Microphone
<b>Beta<sup>®</sup> 87A</b>	Supercardioid Condenser Vocal Microphone
<b>Beta<sup>®</sup> 87C</b>	Cardioid Condenser Vocal Microphone
<b>SM86</b>	Cardioid Condenser Vocal Microphone
<b>KSM8</b>	Dual-Diaphragm Dynamic Vocal Microphone

## 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
- 44 MHz tuning bandwidth (region dependent)
- 32 available channels per frequency band (region dependent)
- Up to 10 compatible systems per 6MHz TV band; 12 systems per 8 MHz bandv
- 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

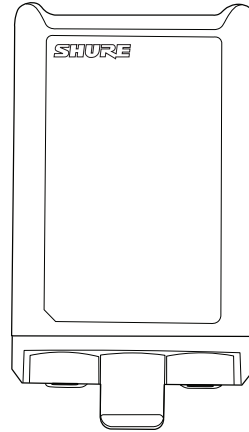
# SLX-D DIGITAL WIRELESS RECHARGEABLE POWER MANAGEMENT

## 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 × W × L)	0.57 × 1.28 × 2.19 in (14.5 × 32.5 × 55.5 mm)
Weight	1 oz. (28 g)



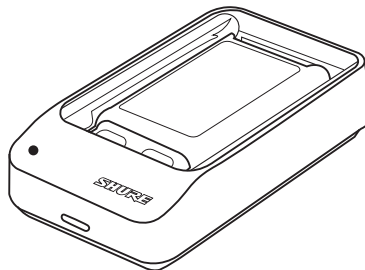
**SB903**  
Rechargeable Lithium Ion Battery

## 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 <i>USB-powered</i>
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 × W × L)	0.81 × 1.48 × 3.13 in (20.5 × 37.5 × 79.5 mm)
Weight	1.3 oz (39 g)
Housing	Molded Polycarbonate
<b>POWER SUPPLY</b>	
Input Voltage Range	100 to 240 VAC
Operating Frequency	50 to 60 Hz
Maximum Input Power	0.2 A <i>at 100 VAC full load</i>
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

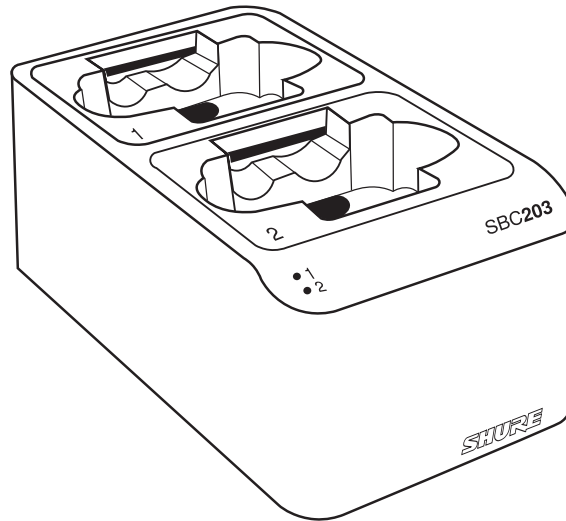
<b>Charge Current</b>	625 mA or 250 mA <i>Lower current used when using another power source, or operating between 32 °F and 50 °F (0 °C and 10 °C)</i>
<b>Charge Time</b>	50%: 1 hour, 15 minutes 100%: 2 hours, 30 minutes
<b>External Power Supply</b>	SBC10-USB15W or SBC10-USB15WS
<b>Power Requirements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

### POWER SUPPLY

<b>Input Voltage Range</b>	100 to 240 VAC
<b>Operating Frequency</b>	50 to 60 Hz
<b>Maximum Input Power</b>	0.6 A at 100 VAC full load
<b>Output Voltage</b>	4.75 to 5.25 VDC
<b>Maximum Output Power</b>	3.0 A at 5 V
<b>Operating Temperature Range</b>	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