

**WIRELESS MICROPHONE OPTIONS** Interchangeable mic heads are compatible with all Shure handheld transmitters with the exception of BLX and GLX-D.

**GLOSSARY**

**COMPATIBLE SYSTEMS PER BAND**

Each wireless microphone needs its own frequency to operate and transmit properly. It is not possible to use two wireless systems on the same frequency. For example, if four members of the same group want to go wireless, you need four wireless systems (a system consists of a transmitter and receiver) on four different and compatible frequencies. The number of compatible systems per band indicates how many wireless systems can be used simultaneously in one frequency band. A band refers to the range of frequencies a wireless system can tune over (e.g. 518 – 578 MHz).

**MAXIMUM NUMBER OF SYSTEMS PER BAND**

Most wireless systems are available in multiple frequency bands. By combining frequency bands, you can typically use a larger number of systems.

**AUTO SETUP FEATURES**

Scan (Auto Frequency Selection): The receiver quickly locates a clear channel. Sync (Auto Transmitter Setup): An infrared signal from the receiver automatically programs the transmitter to the correct frequency.

**ADVANCED ANTENNA OPTIONS**

When using three or more wireless receivers in one rack, we highly recommend the use of antenna distribution to allow multiple receivers to share a single pair of antennas. If the receivers are located in another room, or line-of-sight is otherwise obstructed, then remote mounting the antennas is also encouraged. Directional antennas are available for long distance applications.

**PG58**



A rugged mic tuned to accentuate the clarity of lead and backup vocals.

Cardioid  
 Dynamic  
 60 Hz – 15 kHz\*

PGX-D	BLX			
ULX	QLX-D	ULX-D	UHF-R	AXT

**SM58<sup>®</sup>**



The legendary Shure vocal mic designed for superior vocal clarity and warmth. Consistently the first choice of performers around the globe.

Cardioid  
 Dynamic  
 50 Hz – 15 kHz\*

PGX-D	BLX	GLX-D	FP	SLX
ULX	QLX-D	ULX-D	UHF-R	AXT

**SM86**



This condenser microphone features a tailored frequency response for warm and rich vocal reproduction. Its solid build enables it to withstand rigors of daily use on stage.

Cardioid  
 Condenser  
 50 Hz – 18 kHz\*

PGX-D		GLX-D		SLX
ULX	QLX-D	ULX-D	UHF-R	

**SM87A**



A sensitive vocal mic that features a smooth, tailored response for a warm, accurate sound. Tight polar pattern and 3-stage pop filter.

Supercardioid  
 Condenser  
 50 Hz – 18 kHz\*

				SLX
ULX	QLX-D	ULX-D	UHF-R	

**Beta 58A<sup>®</sup>**



A top choice among vocalists for its smooth extended frequency response. Provides maximum isolation from other onstage sounds.

Supercardioid  
 Dynamic  
 50 Hz – 16 kHz\*

PGX-D	BLX	GLX-D		SLX
ULX	QLX-D	ULX-D	UHF-R	AXT

**Beta 87A**



Studio-quality sound for live performance vocals. Provides smooth, tailored frequency response for detail and accuracy of sound.

Supercardioid  
 Condenser  
 50 Hz – 20 kHz\*

PGX-D		GLX-D		SLX
ULX	QLX-D	ULX-D	UHF-R	AXT

**Beta 87C**



Vocal microphone that offers an extremely smooth, tailored response for a warm, natural sound. The cardioid polar pattern compensates for the isolation often associated with the use of personal monitors.

Cardioid  
 Condenser  
 50 Hz – 20 kHz\*

				SLX
ULX	QLX-D	ULX-D	UHF-R	AXT

**KSM9**



Captures vocal subtlety with extraordinary detail to deliver clear articulation, functional flexibility and precise vocal reproduction. It offers exceptional consistency across all frequencies, providing more gain-before-feedback, and minimizing proximity effect.

Supercardioid  
 Dynamic  
 50 Hz – 20 kHz\*

	QLX-D	ULX-D	UHF-R	AXT

**KSM9HS**



Switchable hypercardioid and subcardioid polar patterns that capture vocal subtlety with extraordinary detail and precise reproduction in the most demanding live performance environments.

Hypercardioid/Supercardioid  
 Switchable Condenser  
 50 Hz – 20 kHz\*

	QLX-D	ULX-D	UHF-R	AXT

**VP68**










This wireless microphone capsule features a forgiving polar pattern and condenser element making it an ideal option for professional and mobile media production applications.

Omnidirectional  
 Condenser  
 40Hz - 20 kHz\*











PGX-D			FP	SLX
ULX		ULX-D	UHF-R	AXT

<b>Handheld Configurations</b>	
<b>Compatible Systems Per Band</b>	
<b>Compatible Systems Using Multiple Bands<sup>5</sup></b>	
<b>Receiver Format</b>	
<b>Portable Receiver</b>	
<b>Selectable Frequencies</b>	
<b>Auto Setup Features</b>	
<b>Audio Reference Companding</b>	
<b>Dante</b>	
<b>Audio Summing</b>	
<b>Furnished Antennas</b>	
<b>Receiver Networking</b>	
<b>Computer Monitoring &amp; Control Rack Hardware</b>	
<b>Carrying Case</b>	
<b>Transmitter Display</b>	
<b>Plug On Transmitter</b>	
<b>Receiver Display</b>	
<b>Encryption</b>	
<b>Batteries, Battery Life</b>	
<b>Rechargeable Batteries, Battery Life</b>	

PGX Digital Wireless	BLX® Single Systems	BLX® Dual Systems	BLX® Half Rack Systems	GLX-D® Single Systems	GLX-D® Guitar Pedal Systems	FP Wireless
						
PG58, SM58®, SM86, Beta 58A®	PG58, SM58®, Beta 58A®	PG58, SM58®, Beta 58A®	PG58, SM58®, Beta 58A®	SM58®, SM86, Beta 58A®, Beta 87A	SM58®, SM86, Beta 58A®, Beta 87A	SM58®, VP68
Up to 5	Up to 12	Up to 12	Up to 12	Up to 8	Up to 8	Up to 12
12	23	23	23	Up to 4 Typical; 8 Maximum	Up to 4 Typical; 8 Maximum	42
Single	Single	Dual	Single	Single	Single	Single
No	No	No	No	No	No	Yes
Group Channel Only	Group Channel Only	Group Channel Only	Group Channel Only	Group Channel Only	Group Channel Only	Tune in 25KHz
Scan / Sync	Quickscan	Quickscan	Quickscan	LINKFREQ	LINKFREQ	Scan / Sync
N/A	Yes	Yes	Yes	No	No	Yes
No	No	No	No	No	No	No
No	No	No	No	No	No	N/A
Attached ¼-wave	BLX4/BLX88 = internal BLX4R = removable 1/4 wave	BLX4/BLX88 = internal BLX4R = removable 1/4 wave	BLX4/BLX88 = internal BLX4R = removable 1/4 wave	GLXD4 = attached 1/4 wave GLXD6 = Internal Monopole	GLXD4 = attached 1/4 wave GLXD6 = Internal Monopole	Attached
No	No	No	No	No	No	No
No	No	No	No	No	No	No
Optional (URT)	Optional (URT or URT2)	Optional (URT or URT2)	Included	Optional (URT2)	N/A	N/A
Included System Case	PG SKUs = No Case All others = Case	No	No	Yes	No	N/A
Multi-color LED	Battery: BiColor LED G/CH: 7 Segment LED	Battery: BiColor LED G/CH: 7 Segment LED	Battery: BiColor LED G/CH: 7 Segment LED	Battery: Tri-Color LED	Battery: Tri-Color LED	No
No	No	No	No	No	No	Yes
Blue LED	Audio: Bi-Color LED RF/Ready: Green LED G/CH: (2) 7 Segment LED	Audio: Bi-Color LED RF/Ready: Green LED G/CH: (2) 7 Segment LED	Backlit Icon LCD + Bi-Color Battery LED	Backlit Icon LCD Blur RF ready light. Tri-Color Battery Charge status LED LED	G/CH/Notes: Matrix LEDs Tuning: 13 LED arch + shap/flat LEDs Audio/Mute/RF LEDs	LCD
No	No	No	No	No	No	No
2 AA > 10 hrs. (9 hrs PGXD2)	2 AA > 14 hrs.	2 AA > 14 hrs.	2 AA > 14 hrs.	Lithium Ion Rechargeable up to 16 hrs.	Lithium Ion Rechargeable up to 16 hrs.	2AA > 12 hours
N/A	N/A	N/A	N/A	N/A	N/A	N/A

<b>GLX-D Charging Accessories SKUs</b>	<p><b>SB902</b> GLX-D Lithium-ion battery (available separately)</p> <p><b>SBC-902</b> USB battery dock charger (available separately)</p> <p><b>Charge Battery In-Transmitter</b> USB charge cable (included)</p> <p><b>SBC-USB</b> USB wall charger (GLX-D single = available separately, GLX-D Pedal + included)</p> <p><b>SBC-CAR</b> USB car charger (available separately)</p>
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Note: All specifications are subject to change.  
<sup>5</sup>Actual number of compatible systems will vary depending on setup and environment

	SLX® Wireless	ULX® Wireless <sup>2</sup>	QLX-D® Digital Wireless	ULX-D® Digital Wireless	UHF-R® Wireless	Axient® Wireless
<b>Handheld Configurations</b>						
	SM58®, SM86, Beta 58A®, Beta 87A, Beta 87C	SM58®, SM86, SM87A, Beta 58A®, Beta 87A, Beta 87C	SM58®, Beta 58, Beta 87A, Beta 87C, SM86, SM87A, KSM9, KSM9HS	SM58®, SM86, SM87A, Beta 58A®, Beta 87A, Beta 87C, KSM9, KSM9HS	SM58®, SM86, SM87A, Beta 58A®, Beta 87A, Beta 87C, KSM9, VP68, KSM9HS	SM58®, Beta58, Beta 87A, Beta 87C, KSM9, KSM9HS, VP68
<b>Compatible Systems Per Band</b>	Up to 12	Up to 20	Up to 60	Up to 60	Up to 40 <sup>3</sup>	Up to 72 (band dependent)
<b>Compatible Systems Using Multiple Bands<sup>5</sup></b>	42	62	129	149	149	184
<b>Receiver Format</b>	Single	Single	Single	Single, Dual and Quad	Single and Dual	Dual
<b>Portable Receiver</b>	No	No	No	No	Yes	No
<b>Selectable Frequencies</b>	Tune in 25KHz	Tune in 25KHz	Tune in 25KHz	Tune in 25KHz	Tune in 25KHz	Tune in 25KHz
<b>Auto Setup Features</b>	Scan / Sync	Scan / Group Scan	Scan / Group Scan / Sync	Scan / Group Scan / Sync	Scan / Group Scan / Sync	Scan / Group Scan / Sync
<b>Audio Reference Companding</b>	Yes	Yes	N/A	N/A	Yes	Yes
<b>Dante</b>	No	No	No	Yes	No	No
<b>Audio Summing</b>	No	No	No	Dual Quad Only	No	No
<b>Furnished Antennas</b>	Detachable ¼-wave	Remoteable ½-wave	Detachable ½-wave	Remoteable ½-wave	Remoteable ½-wave	Remoteable ½-wave
<b>Receiver Networking</b>	No	No	Integrated	Included (Single), Integrated (Dual and Quad)	Integrated	Integrated
<b>Computer Monitoring &amp; Control</b>	No	No	Yes	Yes (WWB6 only)	Yes	Yes
<b>Rack Hardware</b>	Included	Included	Included	Included	Integrated	Integrated
<b>Carrying Case</b>	Optional System Case	Optional System Case	No	No	Transmitter Case	Transmitter Case
<b>Transmitter Display</b>	Backlit LCD + Multi-color LED	Backlit Multi-function LCD + LED	Backlit Multi-function LCD	Backlit Multi-function LCD	Backlit Multi-function LCD	Backlit Multi-function + Multi-colorLEDs
<b>Plug On Transmitter</b>	No	No	No	No	Yes	No
<b>Receiver Display</b>	Backlit LCD + LEDs	Backlit Multi-function LCD + LEDs	High contrast LCD	Backlit Multi-function LCD + LEDs	Backlit Multi-function LCD + LEDs	Backlit Multi-function + Multi-color LEDs
<b>Encryption</b>	No	No	Yes; AES-256	Yes; AES-256	No	No
<b>Batteries, Battery Life</b>	2 AA > 8 hrs.	9 V > 8 hrs.	2 AA > 9 hrs. (1 mW / 10mW RF power)	2 AA > 11 hrs. (1 mW / 10mW RF power) or > 5 hrs. (20 mW RF power)	2 AA, 2 AAA (UR1M) > 8 hrs. (UR5) > 4 hrs. (UR3) > 10 hrs.	<b>AXT913</b> 3-AA Battery Sled for <b>AXT100</b> Bodypack Transmitter <b>AXT921</b> 1-AA Battery Sled for <b>AXT200</b> Handheld Transmitter
<b>Rechargeable Batteries, Battery Life</b>	N/A	N/A	SB900 > 10 hrs.	SB900 > 12 hrs. (1 mW / 10mW RF power) or 8 hrs. (20 mW RF power)	SB900 (UR5 only) > 8 hrs.	<b>AXT910</b> : Up to 8 hours <b>AXT920</b> : Up to 9 hours
<b>Accessories</b>	<b>Antennas</b> <b>UA864US</b> Wall Mounted Wideband Antenna (470-698 MHz) <b>UA874US</b> Active Directional Antenna (470-698 MHz) <sup>1</sup> <b>HA-8089</b> Helical Antenna Directional (480-900 MHz) <b>UA844SWB</b> Antenna / Power Distribution System <b>UA845-SWB</b> Antenna / Power Distribution System <sup>4</sup>		<b>Antenna Distribution Amplifiers and Splitters</b> <b>UA830USTV</b> Antenna In-Line Amplifier (470-698 MHz) <sup>1</sup> <b>UA860SWB</b> Wideband Omnidirectional Antenna (470-1100 MHz) <b>UA221</b> (Passive) Antenna Splitter / Combiner		<b>AXT644</b> 2.4 GHz Directional Patch Antenna	
<b>Rechargeable Accessories</b>	 <b>SBC100</b> Single USB Charger  <b>SBC200</b> Dual Docking Charger  <b>SBC800</b> Eight Bay Battery Charger  <b>SB900</b> Lithium-Ion Rechargeable Battery					
	<b>AXT900</b> Rack Charging Station <b>AXT901</b> 2-Battery Charging Module - Bodypack Battery <b>AXT902</b> 2-Battery Charging Module - Handheld Battery <b>AXT903</b> Portable Bodypack Charger <b>AXT904</b> Portable Handheld Charger					<p>Note: All specifications are subject to change.</p> <p><sup>1</sup>Use with SLX additionally requires UA844SWB Antenna / Power Distribution System</p> <p><sup>2</sup>ULX receiver has ¼ wave antennas instead of ½ wave, and does not include rack hardware or group scan.</p> <p><sup>3</sup>Band dependent</p> <p><sup>4</sup>Not for use with ULX</p> <p><sup>5</sup>Actual number of compatible systems will vary depending on setup and environment</p>