

PREMIER WIRELESS TECHNOLOGY



WIRELESS ON A NEW SCALE

Offering you more productivity, more reliability and more control, UHF-R is premier wireless technology that helps you master the complexities of large-scale wireless installations. UHF-R takes wireless to a completely new level.

Unparalleled control for complex installations.

UHF-R automates setup and control operations to save you time and effort on even the most complex networked installations. UHF-R's usability innovations include networked Automatic Frequency Selection with group scan, infrared automatic transmitter sync and smart menu-driven system operation for fast setup and intuitive operation.

Superior RF performance and reliability for every installation.

With 2400 selectable frequencies across 60 MHz of bandwidth, UHF-R provides up to 40 simultaneous compatible systems per band. Advanced Track Tuning Filtering Technology, by shifting the RF filter along with the selected frequency, allows you to deploy this added bandwidth without audio degradation or interference. All UHF-R components – including the compact, sweat-resistant bodypack – are engineered to withstand the abuses of the road. You can rely on UHF-R for consistently reliable performance, always.

Crystal-clear audio that sounds more like wired.

Shure's patented Audio Reference Companding delivers crystal-clear audio transmission, far superior to conventional wireless. Unlike other wireless systems, Shure uses a variable companding ratio that responds to the audio level – eliminating wireless artifacts and substantially increasing dynamic range.

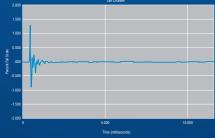


Reference mic

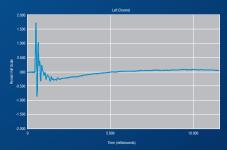
Audio Reference Companding

These impulse response graphs show how a transient signal is reproduced through a Shure Beta 87A™ capsule in three ways: through a wired mic, through a wireless system with Audio Reference Companding, and through a conventional wireless system. The Audio Reference Companding graph is virtually identical to the wired graph, while the conventional wireless system shows far less accurate audio reproduction.









Wireless Beta 87A with **fixed-ratio companding**. Appreciably different from wired mic (left panel).

UHF-R® Features and Performance

Shure UHF-R® Wireless Systems master the intense pressure and extreme conditions of any touring or installation environment, while delivering unmatched Shure sound.



UR4S | UR4D Wireless Diversity Receiver

Available in Single Channel and Dual Channel versions.

2400 selectable frequencies across 60 MHz bandwidth

3000 selectable frequencies across 75 MHz bandwidth (region dependent)

Track Tuning Filtering Technology

Up to 40 preset compatible systems per band

Up to 160 systems with multiple bands

Networked Automatic Frequency Selection

Infrared automatic transmitter sync (including custom group upload)

Flash memory to store six 60-channel custom frequency groups

Shure's patented Audio Reference Companding

Multi-function bit-mapped backlit LCD

USB and Ethernet network control and monitoring

Remoteable antennas



UR2 Handheld Transmitter

Switchable RF Power (10/50mW, regionally dependent) Frequency and Power lockout Bit-mapped Backlit LCD 2 AA Batteries – Up to 8 hours continuous use Infrared automatic transmitter sync

All-metal die-cast construction

Dual diaphragm design

Switchable polar patterns

KSM9

(supercardioid and cardioid)
Advanced two-stage shock
mount suspension
Proprietary shock mount
technology reduces handling noise
KSM9 is available in black
(UR2/KSM9/BK) and champagne
(UR2/KSM9/SL) finishes



Handheld

SM58® Dynamic Cardioid
SM86 Condenser Cardioid
SM87 Condenser SuperCardioid
Beta 58® Dynamic SuperCardioid
Beta 87A™ Condenser
SuperCardioid

Beta 87C[™] Condenser Cardioid KSM9 Condenser Switchable

Multi-function Displays

UHF-R's bitmapped LCD displays provide clear access and control for all integral system functions.





Rack-mounted UR4D Receivers with UA845 Antenna / Power Distribution System.



UR1 Bodypack Transmitter

Switchable RF Power (10/50mW or 10/100mW, regionally dependent) Magnesium construction (3.4 oz/97g) Frequency and Power lockout Bit-mapped backlit LCD 2 AA batteries – Up to 8 hours continuous use Infrared automatic transmitter sync Removeable antenna



Front view (49 x 60 x 17mm)

UR1M Micro-Bodypack Transmitter

Switchable RF Power (10mW or 50mW) Less than half the size of standard bodypacks Lightweight magnesium construction (2.2 oz/62g) Conformal coated circuitry for enhanced sweat resistance Bit-mapped backlit LCD 2 AAA batteries – Up to 9 hours continuous use Audio level metering TQG or LEMO3 connector options Selectable battery metering by battery type

Accessories

A range of durable, tour-tested accessories are available to customize UHF-R systems for every application.

Passive Antenna Splitter Kit – UA221 Recommended for 2 receivers.

Antenna/Power Distribution System - UA845 Recommended for 3 or more receivers.

In-line Antenna Amplifier - UA830

½-Wave Omnidirectional Antenna – **UA860**

Active Directional Antenna – UA870

3 Pin Mini LEMO3 Conversion Kit for UR1M - WA335

3 Pin Mini LEMO3 Jack for Lavaliers - WA336

Locking Bodypack Adapter for TQG connector (Included) - WA340

Cloth Bodypack Pouch - WA580 Available in Black or White.

Neoprene pouch for UR1M and UR1M-LEMO3, Black - WA581B Neoprene pouch for UR1M and UR1M-LEMO3, White - WA581W













INCLUDED WIRELESS WORKBENCH® SOFTWARE

SCAN. PLAN. COMMAND.

Wireless Workbench® 5 from Shure is your wireless command center for frequency coordination of any Shure Wireless product and networked control of Shure UHF and UHF-R® series wireless systems. Now compatible with both Mac OSX and Windows Vista™, WWB5 takes the guesswork out of frequency coordination and provides a graphic display of your RF environment. Scan. plan. and command

and provides a graphic display of your RF environment. Scan, plan, and command your wireless systems anywhere with the ultimate system control software from Shure.

Ethernet and USB Compatibility No additional equipment required to connect to network hub.

Frequency Compatibility Calculator Wizard

Scans the RF environment to assess all networked hardware and recommends frequencies for all specified wireless systems.

Frequency Selection Wizard

Automatically scans and selects open frequencies for all networked UHF-R receivers.

Comprehensive Infrared Sync

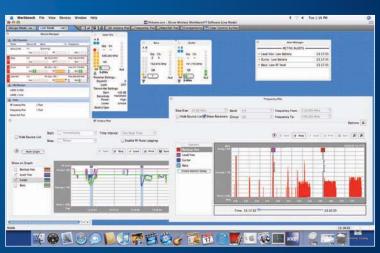
Automatically syncs frequencies, custom groups, lockouts and power settings between transmitters and receivers; provides PC control of transmitter / receiver sync parameters.

Band Limiting Feature

Allows the user to view custom frequency band parameters to align with any country or regional RF guidelines that might conflict with the available bandwidth.

Custom Frequency Group Creation

Lets you customize and save frequency groups for specific locations.



Mac OSX screenshot

		470 050 MH (
System	RF Carrier Frequency Range	470–952 MHz (available frequencies depend upon applicable country regulations)
	Working Range	150 m (500 ft.) under typical conditions; 500 m (1640 ft) line of sight
		(NOTE: Operating range depends on many variables, including RF signal absorption,
	Audia Evanuanay Baananaa	reflection and interference)
	Audio Frequency Response	40-18,000 Hz, + 1/-3 dB (NOTE: Overall system frequency response depends on the microphone element)
	System Distortion (ref. +/-38 kHz	0.3% THD typical
	deviation, 1 kHz modulation)	0.376 TTD typical
	Dynamic Range	>102 dB or >110 dB A-weighted, region-dependent
	Ultimate Quieting	>105 dB A-weighted
	(ref. 45kHz deviation)	>100 db // Wolghiod
	Operating Temperature Range	-18° to 57° C (0° to 135° F) (NOTE: Battery characteristics may limit this range)
UR4S UR4D Diversity Receiver	Overall Dimensions	43.5 mm H x 482.6 mm W x 365.38 mm D (1.718 x 19.000 x 14.385 in.)
	Net Weight	UR4S 4.8 kg (10.6 lbs) UR4D 5.0 kg (11.0 lbs)
	Housing	Galvanized Steel
	Audio Output Level	+24 dBu (-6 dBu mic)
DO 0.0.0 D. 0	Output Impedance	200 Ω (150 Ω mic)
UR4S Single Channel Receiver	RF Sensitivity	UR4S: -110 dBm typical for 12 dB SINAD; -105 dBm typical for 30 dB SINAD
		UR4D: -107 dBm typical for 12 dB SINAD; -102 dBm typical for 30 dB SINAD
	Image Rejection	110 dB typical
	Spurious Rejection	90 dB typical
	Audio Polarity	Positive pressure on microphone diagram (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" output
R4D Dual Channel Receiver	Power Requirements	90 to 230 Vac, 50/60 Hz
	Power Consumption	UR4S: 9.6 – 13.2 W; UR4D: 12 – 16 W; UA845: 15 -16 W
R1M Micro-Bodypack	0	00 10 1 05 10
ransmitter	Gain Adjustment Range	-20 dB to +35 dB
	Maximum Input Level:	+5 dBu (sensitivity 0 dB) +15 dBu (sensitivity -10 dB)
	Input Impedance	200 kΩ TQG, 8.2 kΩ LEMO3
	Output Impedance	50Ω
	RF Power Output	10 mW or 10/50 mW (region dependent)
	Housing	Cast magnesium
	Connector Types	LEMO3, TQG
	Power Requirements	2 AAA batteries (alkaline, lithium primary, or NiMH types)
	Battery Life Overall Dimensions	8 hours typical 49 mm L x 60 mm W x 17 mm D (1.92 x 2.38 x 0.66 in.)
	Net Weight	62g (22 oz) without batteries
	Net Weight	62g (22 02) Without batteries
R1 Bodypack Transmitter	Gain Adjustment Range	-20dB to +35 dB
	Maximum Input Level:	+10 dBu (sensitivity 0 dB), +20 dBu (sensitivity -10 dB)
	Input Impedance	>1 MΩ
	Output Impedance	50Ω
	RF Power Output	10 mW, 10/50 mW, or 10/100 mW (region dependent)
	Housing	Cast magnesium
	Power Requirements	2 AA alkaline
	Battery Life	8 hours typical
	Overall Dimensions	97.5 mm L x 60 mm W x 17 mm D (3.84 x 2.38 x 0.66 in.)
	Net Weight	97g (3.4 oz) without batteries
D2 Handhold Transmitter	-	
R2 Handheld Transmitter	Gain Adjustment Range	-10 dB to +20 dB
	Maximum Input Level:	+4.8 dBu
	Input Impedance	1 ΜΩ
	Output Impedance	50Ω
	RF Power Output	10 mW or 10/50 mW (region dependent)
	Housing	Aluminum die-cast handle and aluminum machined battery cup
_	Power Requirements	2 AA alkaline or rechargeable batteries
U	Battery Life	8 hours typical
	Overall Dimensions	254 mm L x 51 mm dia. (10 x 2 in.)
	Net Weight	Varies by capsule type



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