

# UHF Wireless Microphone Systems

**BOGEN**®

## UDMS800BP, UDMS800HH

These UHF Wireless Microphone Systems offer users the freedom to move around while speaking. System choices consist of a 800-channel PLL-synthesized UHF Receiver with either a handheld microphone or lavalier microphone and body-pack transmitter. Headset microphone also available.

### UBP800 Body-Pack w/Lavaliere Microphone

- Audio mute switch allows convenient audio muting while leaving the transmitter "ON"
- LED indicator: Unit "ON", and "Low Battery Alert"
- Locking 3.5mm mini-jack provides secure connection for removable microphone
- Convenient, economical operation with AAA alkaline or NiMH batteries (2x)
- 2-1/4" W x 3-3/8" H x 1" D; antenna 3-3/4"; 2.8 oz. (without batteries)
- Lavalier Mic: 4 ft. long cord; 0.6 oz.

### UHT800 Handheld Microphone

- Sleek metal housing with internal antenna for optimum aesthetics and durable long life
- Uni-directional neodymium dynamic cartridge for optimum sound, maximum feedback rejection, and minimal handling noise
- Audio mute switch allows convenient audio muting while leaving the transmitter "ON"
- LED indicator: Unit "ON", and "Low Battery Alert"
- Convenient, economical operation with AA alkaline or NiMH batteries (2x)
- 9-1/8" long x 2" dia. ; 10 oz. (without batteries)

### UDR800 800-Channel PLL-Synthesized UHF Receiver

- Offers 800 user-selectable frequencies in UHF 470-490 MHz band; 120 dB dynamic range; operation up to 500 feet line-of-sight
- DigiTRU Diversity™ for maximum range and dropout protection, full LED indicators, 1/4" unbalanced and XLR balanced outputs, Tone Squelch™ for locking out potential interference, noiseless transmitter ON/OFF switching, & level control for unbalanced output
- Half-rack receiver design with front panel dual antennas, powered by wall power adapter
- 8" W x 1-5/8" H x 5-1/8" D; antenna 2-3/4"; 1 lb.



UDR800

UBP800

### UDMS800BP

includes:

- UBP800 Body-Pack & Lavalier Mic
- UDR800 UHF Receiver

### UDMS800HH

includes:

- UHT800 Handheld Mic
- UDR800 UHF Receiver

UDR800

UHT800

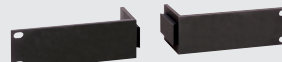
## ACCESSORIES



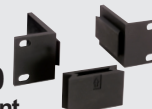
**BCHM**  
Headset  
Microphone  
(UBP800 Body-Pack  
required)



**MC28**  
Microphone  
Clip  
(for UHT800)



**RPK89**  
Rack Mount  
(Single Unit)



**RPK90**  
Rack Mount  
(Double Unit)

## Technical Specifications:

### OVERALL SYSTEM PERFORMANCE

Operating Frequency Range	470 MHz-490 MHz (U.S.)
Freq. Synthesized	(800 channels switchable) 25 kHz/step
PLL System Frequency Stability	<0.005%
Frequency Response	50 Hz-18 kHz +/-3 dB
Dynamic Range	120 dB
Harmonic Distortion	<0.5%
Modulation	FM (F3E) +/-25 kHz normal, +/-75 kHz max.
Operating Range	150-250 feet typical, 500+ feet max. line-of-sight

### UDR800 RECEIVER

Receiver System	Dual conversion Super Heterodyne with Digi-True Diversity (dual antennas with optimum reception selected)
Selectivity	60 dB, normal +/-75 kHz offset
Image Rejection	-70 dB, minimum
Sensitivity	-107 dBm, normal
Spurious Rejection	65 dB, normal
Mute /Squelch	Adjustable (-65 dBm to -95 dBm), Tone Squelch 40 kHz
Controls	Power ON/OFF push switch, VOLUME line level pot, MENU, UP/DOWN buttons
LCD Display	MUTE, AF/RF bars, A/B diversity, IR, GR/CH, MUTE Level, SCAN, Frequency
LED Indicator	Power ON
Audio Outputs	LINE OUT UNBALANCED: adjustable line audio output
MIC Out Balanced	Fixed MIC level audio output
Output Impedance	Unbalanced: 1k $\Omega$ and Balanced: for 600 $\Omega$ loads
Power Requirement	22V DC/0.4A
Antennas	Dual permanently attached swivel antennas
Dimensions	8" W x 1-5/8" H x 5-1/8" D (20.2cm x 4.1cm x 13cm)
Product Weight	1 lb. (454g)
Housing Construction	ABS Plastic

### UHT800 HANDHELD TRANSMITTER

RF Output Power	+17 dBm Max, +14 dBm (25mW typical)
Harmonic/Spurious Emission	-50 dBc normal
Impedance	3.0k $\Omega$
Controls	Power and Audio ON/OFF switches, Input Level
LED Display	Power ON (GREEN), Low Battery ON (RED)
Antenna Type	Integral
Battery Type	2 x AA alkaline or NiMH
Battery Life	8-10 hours typical
Dimensions	9-1/8" Long x 2" dia. (23.1cm x 5.1cm)
Product Weight (w/o batteries)	10 oz. (283g)
Housing Construction	Metal

### UBP800 BODY-PACK TRANSMITTER

RF Output Power	+17 dBm Max, +14 dBm (25mW typical)
Harmonic/Spurious Emission	-50 dBc normal
Input Impedance	5k $\Omega$ (Lavalier); 500k $\Omega$ (Instrument)
Controls	Power and Audio ON/OFF switches, Input Level
Input Connector	Locking 3.5 mm mini-jack
LED Display	Bi-Color - Power ON (GREEN) and Low Battery ON (RED)
Antenna Type	External Removable
Battery Type	2 x AAA alkaline or NiMH
Battery Life	6-8 Hours typical, alkaline
Dimensions	2-1/4" W x 3-3/8" H x 1" D (5.7cm x 8.6cm x 2.5cm)
Product Weight (w/o batteries)	2.8 oz. (79g)
Housing Construction	ABS Plastic

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