

# BOGEN®

## UHF Wireless Microphone Systems UDMS16HH, UDMS16BP

### UHF Wireless Microphone Systems UDMS16HH, UDMS16BP

These **Wireless Microphone Systems** offer users the freedom to move around while speaking. System choices consist of a 16-channel PLL-synthesized UHF Receiver with either a handheld microphone or lavalier microphone and body-pack transmitter.

#### UHT16 Handheld Microphone

- Sleek metal housing with internal antenna for optimum aesthetics and durable long life
- Features a 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)

#### UDR16 16-Channel PLL-Synthesized UHF Receiver

- Offers 16 user-selectable frequencies in UHF 470-510 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, both 1/4" unbalanced and XLR balanced outputs, Tone Squelch™ for locking out potential interference, noiseless transmitter ON/OFF switching, and level control for unbalanced output
- Half-rack receiver design with front panel dual antennas, powered by wall power adapter
- Optional rack mount accessories available for single unit or dual, side-by-side rack mounting (Models RPK89, single-mount; RPK90, dual-mount)

#### UBP16 Body-Pack w/Lavalier 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)
- Optional Headset Microphone (BCHM) also available

#### Accessories

- BCHM Headset Mic
- RPK89 Mounting Kit (Single-unit)
- RPK90 Mounting Kit (Dual, side-by-side)



#### UDMS16HH

includes:

- UHT16 Handheld Mic
- UDR16 UHF Receiver



UHT16



UDR16

#### UDMS16BP

includes:

- UBP16 Body-Pack & Lavalier Mic
- UDR16 UHF Receiver



UBP16



UDR16

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## System Performance

### Technical Specifications:

<b>RF Carrier Frequency:</b>	UHF, 16-frequency group in separate bands within 470-510 MHz
<b>Frequency Stability:</b>	± 0.005%, PLL Synthesized
<b>Modulation:</b>	FM (F3E), ± 50 kHz Normal
<b>Frequency Response:</b>	30 Hz – 21 kHz, -3dB
<b>Dynamic Range:</b>	120 dB
<b>Total Harmonic Distortion:</b>	< 0.5%
<b>Operating Range:</b>	Up to 250 ft. typical (dependent on site conditions); Up to 500 ft. optimum line-of-sight

## UDR16 Receiver

<b>Reception Mode:</b>	DigiTRU Diversity™ (Dual Antenna)
<b>Unwanted Signal Rejection:</b>	> 90 dB Image and spurious
<b>Squelch:</b>	External control, tone key (45 kHz)
<b>Controls:</b>	Power ON/OFF, Volume Control, Squelch Adjust, 16-Channel select
<b>Connectors:</b>	DC In, 1/4" (6.3mm) unbalanced phone jack output (360mV/no load), XLR balanced output (24mV/600 Ohm)
<b>LED Indicators:</b>	Power ON, Diversity A/B, Audio Signal LED bars plus peak (5 segments)
<b>Power Requirements:</b>	20-22V DC @ 500mA, AC/DC adapter included
<b>Dimensions:</b>	8.1" W × 1.75" H × 5.5" D (20.7 × 4.4 × 14 cm)
<b>Weight:</b>	1.05 lb. (0.48 kg)
<b>Antennas:</b>	Dual-folding

## Transmitters

<b>RF Power Out:</b>	+14 dBm (25mW) Nominal
<b>Harmonic &amp; Spurious Emissions:</b>	< -45 dBc
<b>Audio Inputs:</b>	<i>UBP16</i> – 3.5mm Locking mini-jack input for Lavalier and Headset Mics <i>UHT16</i> – Integral neodymium dynamic cartridge
<b>Controls:</b>	<i>UBP16</i> – Power and Audio Mute ON/OFF, 16-Ch select, Input Level adjust <i>UHT16</i> – Power and Audio Mute ON/OFF, 16-Ch select, Level Adjust
<b>Adjust LED Indicators:</b>	<i>UBP16</i> – Bi-color, Unit ON (green) and Low Battery (red) <i>UHT16</i> – Two LEDs, Unit ON (green) and Low Battery (red)
<b>Battery:</b>	<i>UBP16</i> – Two AAA Alkaline/NiMH <i>UHT16</i> – Two AA Alkaline/NiMH
<b>Battery Life:</b>	<i>UBP16</i> – 5 Hours <i>UHT16</i> – 10 Hours
<b>Dimensions:</b>	<i>UBP16</i> – 3.62" × 2.44" × 1.22" (9.2 × 6.2 × 3.1 cm) <i>UHT16</i> – 2" × 9.5" (5.1 × 24 cm)
<b>Weight:</b>	<i>UBP16</i> – 3.1 oz. (88 g)

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