

Digital Wireless Microphones

By GeorgePetersen

As with other categories of pro audio gear, wireless systems have embraced digital technologies. And in today's ever-crowded RF landscape, this move is ideally suited for packing more frequencies into smaller bandwidths, adding flexible control, applying security encryption or simply transmitting an unaltered digital stream. We looked at some recent offerings and found systems for nearly any application or budget. Speaking of pricing, these are omitted here as systems can vary widely depending on selections in transmitter/receiver options, mic/capsule choices and accessories. Company URLs are provided if you need more information.

AKG DMS800



Frequency Bands: 548.1 MHz to 697.9 MHz
Max Channels: Varies by application
Transmitters: DHT800 handheld; DPT800 bodypack
Batteries/life: (2) AA; 8 hours
Resolution: 24-bit/48 kHz

RF Output: 10 to 50 mW
Audio Outs: (2) XLR and TRS analog; Dante and AES EBU digital.
Extras: Dual-channel receiver; interchangeable D5/D7/C5 head options on handheld.

akg.com

ClearOne SACOM DS8800



Frequency Bands: 902 MHz to 928 MHz
Max Channels: 16 simultaneous
Transmitters: DS-80-H handheld; DS-80-T bodypack
Batteries/Life: (2) AA or rechargeable; 5 hours
Resolution: 24-bit/48 kHz

RF Output: 1, 10, 25 or 50 mW
Audio Outs: XLR analog
Extras: DS-8800 has eight receivers in 1U chassis, similar DS-8400 model with four channels; Audix capsule option on handhelds.

sacomusa.com

Lectrosonics DSW System



Frequency Bands: 470 MHz to 691 MHz
Max Channels: 24+, depending on application
Transmitters: DB bodypack
Batteries/Life: (3) AA; 4.5 hours
Resolution: 24-bit/48 kHz
RF Output: 50 mW

Audio Outs: Six XLR analog; (digital AES/EBU optional)
Extras: Model DR mainframe receiver is modular, accepting up to six channels; includes Ethernet, RS-232 and USB interfacing.

lectrosonics.com

Audio-Technica System 10 PRO



Frequency Bands: 2.4 GHz
Max Channels: 10 simultaneous
Transmitters: ATW-T1001 bodypack; ATW-T1002 cardioid handheld
Batteries/Life: (2) AA; 7 hours
Resolution: 24-bit/48.1 kHz
RF Output: 10mW

Audio Outs: XLR or 1/4" analog
Extras: Offered in single- and dual-channel versions; receiver/antenna units can be docked in the chassis or mounted remotely (up to 328 feet away) via Ethernet cable.

audio-technica.com

Avlex MIPRO ACT-828



Frequency Bands: 480 MHz to 698 MHz
Max Channels: 24 simultaneous (32 in low-power mode)
Transmitters: ACT-80H condenser handheld; ACT-80T bodypack
Batteries/Life: Rechargeable, 8 to 12 hrs.
Resolution: 24-bit/44.1 kHz

RF Output: 10 mW or 50 mW
Audio Outs: (2) XLR and 1/4" analog; S/PDIF digital
Extras: Dual-channel receiver (single-channel ACT 818 also offered); SmartEQ with capsule emulation; full-color vacuum florescent display.

avlex.com

Line 6 XD-V75



Frequency Bands: 2.4 GHz
Max Channels: 14 simultaneous
Transmitters: Numerous handheld and bodypack options.
Batteries/Life: (2) AA; 8 hours
Resolution: 24-bit/44.1 kHz
RF Output: 3.3 mW or 10 mW

Audio Outs: XLR amd 1/4" analog; USB digital
Extras: Onboard DSP mic modeling; interchangeable capsules, including V75-40V handheld with Earthworks WL40V.

line6.com

Sennheiser Evolution D1



Frequency Bands: 2.4 GHz
Max Channels: 15 simultaneous
Transmitters: SKM D1 handhelds with e835 or e845 heads; SK D1 bodypack
Batteries/Life: 2 AA; six hours
Resolution: 24-bit/48 kHz
RF Output: up to 100 mW

Audio Outs: XLR and TRS
Extras: Interchangeable heads on handhelds; onboard EQ, de-ess and AGC

sennheiserusa.com

Behringer Ultralink ULM202MIC



Frequency Bands: 2.4 GHz
Max Channels: n/a
Transmitters: Includes two ULM200 handhelds
Batteries/Life: (2) AA; 30 hours
Resolution: 16-bit/31.25 kHz

RF Output: 50 mW
Audio Outs: (2) XLR and 1/4" analog
Extras: Also offered in single-channel versions; ULM200MIC with single handheld and ULM200LAV with lavalier bodypack.

behringer.com

Beyerdynamic TG 1000 Dual Receiver



Frequency Bands: 470 to 698 MHz
Max Channels: 24 simultaneous
Transmitters: TG 1000 handheld; TG 1000 beltpack
Batteries/Life: (2) AA; 8 hours
Resolution: 24-bit/48 kHz

RF Output: 10 or 50 mW
Audio Outs: (2) XLR and TRS analog
Extras: Dual-channel receiver; five interchangeable capsules available for handheld, including TG V90w ribbon model.

north-america.beyerdynamic.com

Shure ULX-D



Frequency Bands: 470 MHz to 696 MHz
Max Channels: 60 (14 on a single 6 MHz TV channel)
Transmitters: ULXD1 bodypack or ULXD2 handheld
Batteries/Life: (2) AA; 11 hours @ 10 mW

Resolution: 24-bit/48 kHz
RF Output: 1, 10, 20 mW
Audio Outs: XLR (line/mic level switchable); also Dante networking.
Extras: ULX24 single-, ULXD4D dual-channel and ULXD4D quad receivers avail.

shure.com

Sony DWZ Series



Frequency Bands: 2.4 MHz
Max Channels: 6 simultaneous
Transmitters: ZTX-M02RC handheld or ZTX-B02RC bodypack
Batteries/Life: (2) AA; 10 hours
Resolution: 24-bit/48 kHz

RF Output: 10 mW
Audio Outs: One XLR and two 1/4" TS
Extras: Interchangeable capsules on handhelds.

pro.sony.com