BUYERSGUIDE

Digital Wireless Microphones

By GeorgePetersen

ust as consoles, signal processing and system control have eased into the benefits of digital, it's little surprise that wireless mics are also making the transition. And wireless audio is ideally suited for the digital domain, whether for the precision of packing more frequencies into smaller bandwidths, applying security encryption or simply taking advantage of 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 transmitter/receiver options, mic/capsule choices and accessories, such as external antennas. Manufacturer URLs are provided if you need more information.

Audio-Technica System 10

Frequency Bands: 2.4 GHz Max Channels: 8 simultaneous Transmitters: ATW-T1001 UniPak bodypack; ATW-T1002 handheld cardioid Batteries/Life: (2) AA; 7 hours

Latency: n/a

Resolution: 24-bit, 48.1 kHz RF Output: 10mW Audio Outs: XLR or 1/4" analog Extras: Compact single-channel receiver audio-technica.com

AKG DMSTetrad

Frequency Bands: (2) 548.1 to 697.9 MHz; 710.1 to 864.9 MHz Max Channels: 40 simultaneous Transmitters: DPTTetrad bodypack; DHTTetrad handheld available with D5, D7 or C5 capsules Batteries/Life: (2) AA, 7 hours; HR6

Resolution: 24-bit, 44.1 kHz RF Output: 10 to 50 mW Audio Outs: (2) analog XLR and 1/4"; AES/EBU with word clock Extras: Two-channel receiver with rear BNC antenna mounts; onboard DSP includes HP filter, 3-band EQ,



Avlex MIPRO ACT-828

Frequency Bands: 480 to 544 MHz; 540 to 604 MHz; 636 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 hours

Latency: 2.7 mSec

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: Single-channel ACT 818 receiver also available; SmartEQ[™] with capsule emulation: full-color vacuum fluorescent display

avlex.com





Behringer ULTRALINK ULM202MIC

Frequency Bands: 2.4 GHz

unavailable at press time.

behringer.com

Audio Outs: (2) XLR and 1/4" analog

Extras: Includes two handheld trans-

mitters; also offered in single-channel

handheld and ULM200LAV with lavalier

bodypack. Note: New model for upcom-

ina release in first half of 2014; some specs

versions: ULM200MIC with single

Beyerdynamic TG 1000 Dual Receiver

Frequency Bands: Five blocks within Resolution: 24-bit

Max Channels: 24 simultaneous Transmitters: TG 1000 handheld; TG 1000 beltpack Batteries/Life: (2) AA; 8 hours Latency: 2.1 ms

the 470 to 789 MHz range

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



from 470 to 691 MHz 25.5 MHz block on and LMa bodypack Latency: 3.2 mSec Resolution: 24-bit, 88.2 kHz



80-T bodypack 5 hours

Latency: 3 mSec Resolution: 24-bit, 48 kHz



Shure ULX-D Frequency Ba 636, 632 to 69

Max Channels MHz TV chann Transmitters: ULXD2 handhe **Batteries/Life** mw



Lectrosonics Venue

Frequency Bands: (9) 25.5 MHz blocks Max Channels: 16 simultaneous per Transmitters: HH handheld; HM plug-Batteries/Life: (2) AA; 5.5 hours

RF Output: 50 or 100 mW Audio Outs: Six XLR analog Extras: Compander-free Digital Hybrid design: 1U chassis can house up to six receiver modules; HH transmitter accepts capsules from six different manufacturers. lectrosonics.com

Line 6 XD-V75

Frequency Bands: 2.4 GHz Max Channels: 14 simultaneous Transmitters: Numerous handheld models and bodypacks with lavalier and headworn options.

Batteries/Life: (2) AA; 8 hours Latency: 2.9 mSec

RF Output: 3.3 mW or 10 mW

Audio Outs: XLR amd 1/4" analog; USB digital

Extras: Onboard DSP mic modeling of well-known mics; interchangeable capsules, including V75-40V handheld with Earthworks WL40V capsule.

line6.com



Sabine SACOM DS8800

Frequency Bands: 902 to 928 MHz Max Channels: 16 simultaneous Transmitters: DS-80-H handheld; DS-

Batteries/Life: (2) AA or rechargeable;

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 the star star

Sennheiser System 9000

Frequency Bands: Three banks from 470 to 798 MHz

Max Channels: 40 simultaneously Transmitters: SKM 9000 handheld; SK

9000 bodypack Batteries/Life: Rechargeable battery;

5.5 hours Latency: 3.2 mSec

Resolution: 24-bit; up to 96kHz

RF Output: 10 or 50 mW (HD mode); 25 or 50 mW (LR mode)

Audio Outs: Analog and AES-3 output modules offered

Extras: 8-channel modular receiver system; built-in spectrum analyzer: 12 capsules (including Neumann) offered for handheld.

sennheiserusa.com



nds: 470 to 534, 572 to 6 MHz
s: 60, 14 on a single 6 el
ULXD1 bodypack or eld
: (2) AA, 11 hours @ 10

Latency: 2.9 mSec Resolution: 24-bit/48kHz **RF Output:** 1, 10, 20 mW Audio Outs: XI R (line/mic level switchable); also Dante networking Extras: ULXD4 single- or ULXD4D dual-channel receivers available. 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 Latency: n/a

Resolution: 24-bit/48kHz

RF Output: 24-bit/48 kHz Audio Outs: One XLR and two 1/4"TS Extras: Interchangeable capsules on handhelds. pro.sony.com

