



A10 DIGITAL

Wireless Microphone System



Legendary Audio Quality

- All-digital RF transmission for zero companding artifacts and ultra-low distortion 20 kHz audio
- Extremely low latency – best in class 2 mS
- Fully balanced, broadcast quality mic preamp with analogue limiter

Best-in-Class Digital RF Technology

- Super wideband UHF receiver tuning – over 224 MHz (470 MHz–694 MHz)
- 20 simultaneous channels per 8 MHz bandwidth, 15 channels per 6 MHz
- Excellent range, equivalent to the best analogue systems

Integrated Recording

- Built-in audio recorder in the A10-TX transmitter
- Records timecode-stamped files to removable microSD cards
- High accuracy timecode generator can be jam synced from external clock source

Digital Wireless for Today and Tomorrow.

The new A10 Digital Wireless System is designed for the technical demands and requirements of today’s RF-hostile, multi-channel productions. The A10-TX bodypack transmitter and portable A10-RX receiver provide users with broadcast-quality audio, reliable digital RF performance, and easy multi-system setup. Its proprietary digital RF topology and Advanced Digital Diversity is the result of years of research, laboratory experimentation, and customer experience. The result is a wireless link with full 20 kHz audio bandwidth, high dynamic range, ultra-low distortion, and industry leading 2 millisecond end-to-end delay.

The A10 Digital Wireless System operates in the 470 MHz to 694 MHz UHF band (frequency ranges are country-dependent). Its spectrally efficient digital modulation enables up to twenty A10 Digital Wireless Systems to simultaneously operate in a single 8 MHz TV channel. Multiple simultaneous systems operate without compromising RF range, audio quality, or latency.

A10-TX

Digital Body-Pack Transmitter

- Low-noise, studio-grade input for microphones and line level inputs with analogue limiter and phantom power
- Integrated digital audio recorder with ultra-accurate timecode generator
- Records to removable microSD cards
- Remote controllable over Bluetooth® using the **A10 Remote** Android and iOS app



A10-RX

Two-Channel True Diversity Receiver

- Tunes over the full system bandwidth of 470 to 694 MHz
- 4 complete digital receiver circuits (two per channel)
- Advanced Digital Diversity System (ADDS) selects the receiver with the best RF signal and combines weak signals
- Two versions available: Uni/Super-slot and with cables and connectors



WHY DIGITAL?

The A10 system addresses many of the spectral and audio limitations of analogue FM wireless systems. Its Advanced Digital Diversity System takes advantage of packetized digital RF to improve RF system performance. The result is superior audio quality with no analogue noise and no companding artifacts.

Digital RF modulation is not subject to intermodulation effects like an analogue system. This allows multiple A10 Digital Wireless systems to operate with even frequency spacing without worrying about intermod-free frequency plans.

A10-TX

Digital Body-Pack Transmitter

Specifications

Models / Operating Frequency

A10-TX-A 470–548 MHz
A10-TX-B 518–608 MHz
A10-TX-C 594–694 MHz

Switching Bandwidth

Tuneable in 25 kHz steps throughout transmitter tuning range

Modulation Type

Audio Ltd proprietary digital modulation

RF Output Power

10 mW, 20 mW, 50 mW selectable

Digital Audio Codec

Audio Ltd proprietary

Audio Frequency Response

v20-20 kHz

Input Connector

3-pin LEMO (series 00)

Input Type

Microphone or line level, balanced or unbalanced

Input Gain Control

0-40 dB in 4 dB increments, via menu and remote

Bias and Phantom Power

5 V bias, 12 V phantom, or 48 V phantom

Low Frequency Cut

Flat, 50 Hz, 80 Hz, 120 Hz, 200 Hz, user selectable

Privacy

User settable numeric PIN, Audio Ltd proprietary

Menu

3-button navigation, OLED display,

Powering and Runtime

AA size, lithium, NiMH, or alkaline

Operating Temperature Range

-10 °C to +55 °C

Weight

104 g

Dimensions

83 x 64 x 18 mm

A10-RX

Two-Channel, True Diversity Receiver

Specifications

Models

A10-RX-SL - Uni/Super Slot version
A10-RX-XLR - hardwired version

Operating Frequency Range

470–694 MHz

Switching Bandwidth

Tuneable in 25 kHz steps throughout 224 MHz receiver tuning range

Receiver Topology

Advanced Digital Diversity System

Audio Frequency Response

40 Hz–20 kHz

Output Gain Control

0 dB (+12 dBV) to -36 dB in 12 dB steps, menu-controlled

Output - Analogue

Balanced mic- or line-level, line-level over Uni/Superslot

Output - Digital

AES3 (balanced), two channel

Menu

3-button navigation, OLED display

Operating Temperature Range

-10 °C to +55 °C

Powering

6–18 VDC

Weight

207 g

Dimensions

124 x 68 x 18 mm

ACCESSORIES

A-TC LEMO 5-PIN LEMO to 3-PIN LEMO Timecode Cable

A-SL 25-Pin D-Type Uni/Superslot Adapter for the A10-RX

A-XLR XLR and Power Cable Adapter for the A10-RX Receiver

A-PLATE Mounting Plate for the A10-RX-SL Receiver

A-CLIP Clip for A10-TX Transmitter



A10 Remote App

The available iOS and Android app offers wireless remote control of the A10-TX transmitter. Controls include:

- Start and stop recording
- Transmitter frequency selection
- RF power selection
- Input gain control and low frequency cut
- View and access any available A10-TX units in Bluetooth range
- View transmitter battery levels
- Enter and exit sleep



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