ACT-82a Wideband Dual-Channel Digital Receiver

Key Features

- The receiver is an EIA standard 1U rack-mountable metal chassis and the control panel, equipped with full-color VFD, is intuitive and easily accessible, allowing for quick and easy system setup via a single rotary control.
- MIPRO’s latest IF filter circuitry improves RF dynamic range and anti-interference characteristics, increasing interference-free channels. Upgraded 120 MHz wide bandwidth allows more interference-free channels to be selected.
- New digital diversity receiving technology eliminates signal dropout and enhances receiving range and increase stability.
- Full-Range sound quality won’t be changed by the strength of RF signals or operation distance.
- Digitally-processed RF circuitry and DynamicPlus™ technology eliminates compander noise assuring the wireless sound quality almost as good as cable transmission.
- Improved < 2.9 ms latency. Proprietary Audio A/D Converter provides a true dynamic range >115 dB, T.H.D. < 0.03% at 1 kHz.
- The AES/EBU Digital Audio Interface facilitates a direct connection to digital mixing consoles and transmits signal without distortion, therefore S/N ratio will not deteriorate in long distance transmission.
- Proprietary 256-bit encryption guarantees secure audio transmission, preventing unauthorized listening.
- Built-in 10 SmartEQ™ preset and user-defined microphone capsule equalization for faithful reproduction to suit artists’ preferences.
- Wordclock in/out facility with activity indicator ensures correct synchronization with other digital equipment.
- Optional MIPRO RCS2.Net software allows real-time network remote-controlling and monitoring of 64 systems.

Transmitters & Microphones

ACT-8Ha Wideband Digital Handheld Transmitter
ACT-8Ta Wideband Digital Bodpack Transmitter

Accessories

ACT-707SD Receivers PC Management Software
AD-707a UHF Wideband 4-Channel Antenna Divider
AD-708 Wideband 4-Channel Auto Gain-Control Antenna Divider
AT-70 Ground Plane Antenna
AT-70W | AT-70Wa Wideband Transmitting & Receiving Omni-directional Antenna
AT-90W | AT-90Wa Wideband Transmitting & Receiving Log Antenna
AT-100 | AT-100a Wideband Circularly Polarized Antenna
PB-72 Rack Mount Kit
FBC-71 Rear-to-Front Cables

Technical Specifications

Overall System

Frequency Range UHF 480 – 960 MHz (country dependent)
Bandwidth 120 MHz
Channel Grid 25 kHz
Channel Set-up Scan & ACT sync
Audio Sampling 24-bit / 44.1 kHz
Audio Frequency Response 20 Hz – 20 kHz (-2 dB)
Encryption 256 bit
Audio Compression 2nd generation DSP inertial coding
Latency 2.9 ms
S/N Ratio (analog output) > 115 dB(A)
T.H.D. < 0.03% @ 1 kHz

Receiver

Chassis / Channel EIA Standard 19” 1U, Dual
Sensitivity 12 dBµV at S/N ≒ 118 dB(A)
Image & Spurious Rejection > 85 dB
Receiving Mode Digital Diversity
Audio Output Balanced XLR Analog Audio Output: Switchable 10dB / 0dB / -6dB / -12dB
Digital Audio Interface XLR Connector, AES/EBU Interface, Stereo(CH1+CH2)
Wordclock Input / Output BNC Female; 32 kHz – 96 kHz
Digital Equalizer 10 built-in SmartEQ™
PC Interface USB or RS-232 Interface, Proprietary MIPRO ACT-BUS
Display Full-color VFD
Battery Meter Transmitter battery level
Antenna Input 2 × 50Ω TNC female connector
Power Supply Built-in 100-240V AC switching power
Power Consumption 14 W
Dimensions (W × H × D) 420 × 44 × 245 mm / 16.5 × 1.7 × 9.6 “
Weight Approx. 2.7 kg / 6.0 lbs
Operating Temperature -10°C – +60°C