

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. Specific auto-tracking filter for the minimum pass-band loss and maximum anti-interference.
- 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 DigitamicPlus™ technology eliminates compander noise assuring the wireless sound quality almost as good as cable transmission.
- Improved < 2.9ms latency. Proprietary Audio A/D Converter provides a true dynamic range >115 dB, T.H.D. < 0.04% 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 128-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

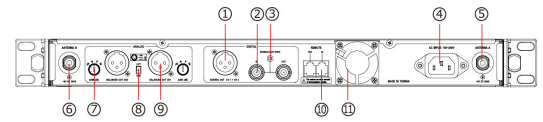
ACT-8Ha	Wideband Digital Handheld Transmitter
ACT-8Ta	Wideband Digital Bodypack Transmitter
MP-8	Battery Charger
MP-88	8-Slot Battery Charger Case

Accessories

ACT-707SD	Receivers PC Management Software
AD-707a	UHF Wideband 4-Channel Antenna Divider
AT-70	UHF Ground Plane Antenna
AT-70B	UHF Antenna Signal Booster
AT-70W	Wideband Transmitting & Receiving Omni-directional Antenna
AT-90W	Wideband Transmitting & Receiving Log Antenna
AT-100	Wideband Circularly Polarized Antenna
FB-72	Rack Mount Kit
FBC-71	Rear-to-Front Cables

Technical Specifications

Overall System	
Frequency Range	UHF 482–602MHz (US & EU) / UHF 638–758MHz (EU)
Bandwidth	120MHz
Channel Grid	25kHz
Channel Set-up	Scan & ACT sync
Audio Sampling	24-bit/44.1kHz Rate
Audio Frequency Response	20Hz–20kHz (-2dB)
Encryption	128bit
Audio Compression	2nd Generation DSP inertial coding
Latency	<2.9ms
S/N Ratio (analog output)	>115dB(A)
T.H.D.	<0.04% @ 1kHz
Receiver	
Chassis / Channel	EIA Standard 19" 1U, Dual
Sensitivity	12dBμV at S/N 118dBA (D)
Image & Spurious Rejection	>85dB
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; 32kHz–96kHz
Digital Equalizer	Preset Microphone Capsule Modeling
PC Interface	USB or RS-232 interface. Proprietary MIPRO ACT-BUS
Display	Full-color VFD
Battery Meter	Transmitter Battery Level
Antenna Input	500 TNC Female Connector × 2
Power Supply	Built-in 100-240V AC Switching Power Supply
Dimensions	420(W) × 44(H) × 245(D) mm / 16.5(W) × 1.7(H) × 9.6(D)"
Weight	Approx. 2.7kg / 6.0lbs
Environment Conditions	-10~+60



1. Digital Output
2. Wordclock Sync Input/Output BNC sockets
3. Wordclock Sync Input Indicator
4. AC Power Socket
5. Antenna A Connector
6. Antenna B Connector
7. Balanced Output Gain Switch
8. Lift/GND Switch
9. Balanced Audio Output Jack
10. Network Interface Connector
11. Ventilation Fan



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Specifications subject to change without notice. SS013/07