

# ACT-646

## UHF Digital Quad-Channel Receiver

### FEATURES

- Built with a rugged metal chassis. The front panel features a VA LCD display with independent quad-channel readouts, a rotary control knob, and operation buttons for intuitive control.
- The rear panel is equipped with a REMOTE network interface and supports optional Dante or AVB digital audio interfaces for seamless integration into professional digital audio systems.
- Equipped with MIPRO's proprietary 48 MHz wideband receiving circuit to increase channel availability and effectively reduce intermodulation interference.
- Built-in digital diversity technology significantly extends stable reception range and maintains consistent audio quality regardless of distance or signal strength.
- Features MIPRO's exclusive 256-bit advanced encryption to prevent eavesdropping and ensure secure signal transmission.
- Incorporates high-fidelity DSP audio processing and high-quality D/A converters to deliver wireless audio performance comparable to wired microphones.
- Supports Auto Scan and ACT synchronization technology for fast and accurate frequency setup.
- Preset with 6 frequency groups totaling 120 channels. A 7th user-defined group allows selection and storage of 16 channels from 1,921 available frequencies.
- Provides independent audio output for each of the four channels, with three selectable gain levels to maintain optimal transmitter sensitivity and dynamic range while preventing saturation distortion.
- Compatible with MIPRO Wireless Console software for PC-based monitoring, frequency analysis, automatic setup, and interference management to enhance operational efficiency.
- Antenna connectors provide bias voltage for boosters and are compatible with MIPRO professional antenna systems to improve reception range and signal stability.
- Operates with an external AC 100 – 240 V switching power supply, offering wide voltage tolerance for reliable system operation.
- Compatible with ACT-600 series handheld and bodypack transmitters, and supports TA-80 digital adapters and BC-100DT gooseneck microphone bases for versatile professional applications.
- Developed and manufactured in Taiwan, delivering reliable quality, professional performance, and excellent cost-performance value.



### SPECIFICATIONS

Channel	Quad
Chassis	Full-rack (19") metal chassis
Frequency Range	UHF 494–820 MHz (country dependent)
Bandwidth	48 MHz
Receiving Mode	Digital diversity

Display	VA LCD
Control Interface	ACT sync button, channel selection buttons and rotary knob
Sensitivity	20 dB $\mu$ V @ S/N > 100 dB
Frequency Response	20 Hz–20 kHz (< -2 dB)
Dynamic Range	> 110 dBA
Latency	$\approx$ 2.9 ms
Audio Processing	44.1 kHz / 24-bit digital sampling
Audio Outputs	Analog balanced XLR output with 3 switchable levels: +16 dB / 0 dB / -6 dB.
Network Interface	Dante or AVB (optional)
Encryption	256-bit
Management Interface	RJ-11 $\times$ 2 for PC software control (requires MIPRO DVU adapter)
Antenna	Detachable. 50 $\Omega$ TNC female connector provides bias for the MIPRO antenna systems.
Power Supply	DC 12–15 V. External AC 100–240 V switching power supply
Dimensions	420 $\times$ 44 $\times$ 219 mm (W $\times$ H $\times$ D)
Weight	Approx. 2.2 kg