

ACT-747B Narrowband Quad-Channel True Diversity Receiver

Key Features

- EIA standard 1U rack-mountable metal receiver.
- UHF PLL synthesized circuit ensures high stability and low spurious emissions.
- Enhanced RF circuitry greatly reduces interference and intermodulation.
- MIPRO's 3rd generation advanced RF and IF circuitry to improve anti-interference characteristics and increase the number of interference-free channels available.
- Auto Scan function allows quick search for an interference-free working channel from 104 preset channels under 10 groups.
- World's first ACT™ function provides precise and rapid frequency sync to the transmitters.
- True diversity receiving for best reception quality. Dual "PiloTone & NoiseLock" circuits minimize interference.
- Industry's only full-color VFD screen delivers a bright, clear viewing in day or night environments with automatic bright (working) and dim (standby) displays during performance.
- All controls are intuitive and easily set up via a single rotary knob.
- Industry's only RF interference warning indicator for proper adjustments of the SQ level. Increase sensitivity to extend receiving range; decrease the sensitivity to reduce interference.
- Single channel or mixed output, switchable between three output levels for the best sound quality options.
- High dynamic range and high fidelity characteristics for transparent audio performance.
- Receiver provides bias voltage for MIPRO antenna systems to enhance reception range and signal stability.
- MIPRO RCS.Net software allows real-time computer setup, control and monitoring.
- Built-in 100 – 240V AC switching power supply ensures system safety and stability.



Transmitters & Microphones

ACT-72H	Narrowband Handheld Transmitter
ACT-72HC	Rechargeable Narrowband Handheld Transmitter
ACT-72T	Narrowband Bodypack Transmitter
ACT-72TC	Rechargeable Narrowband Bodypack 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-70Wa	Wideband Transmitting & Receiving Omni-directional Antenna
AT-90Wa	Wideband Transmitting & Receiving Log Antenna
AT-100a	Wideband Circularly Polarized Antenna
FBC-71	Rear-to-Front Cables

Technical Specifications

Frequency Range	UHF 480 – 934 MHz
Bandwidth	24 MHz
Preset Frequency	104 preset channels. Group 1 – 6: 8 compatible channels in each group Group 7 – 8: 12 compatible channels in each group Group 9 – 10: 16 compatible channels in each group
Receiving Mode	True diversity
Receiving Antenna	Rear Panel. Detachable.
Oscillation Mode	PLL Synthesized
Stability	≤ ±0.005% (-10 – +60°C)
Sensitivity	6 dBμV at S/N > 80 dB
S/N Ratio	> 105 dB(A)
T.H.D.	< 0.5% @ 1 kHz
Frequency Response	50Hz - 18kHz, with high-pass filter
Squelch	"PiloTone & NoiseLock" dual-squelch circuit
Audio Output	Output level accurately pre-adjusted to equal to the microphone capsule sensitivity.
Max. Output Level	+16dBV / 0dBV / -6dBV
Output Connector	Balanced XLR
Output Switch	Single channel output or mixed output
Operation	Manual or PC remote control via optional software
Power Supply	Built-in 100 – 240 AC switching power
Power Consumption	24 W
Dimensions (W × H × D)	482 × 44 × 265 mm / 19 × 1.7 × 10.5 "
Net Weight	Approx. 3.4 kg / 7.5 lbs



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