

# ACT-312 Dual-Channel Diversity Receiver

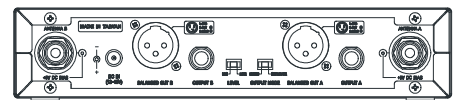
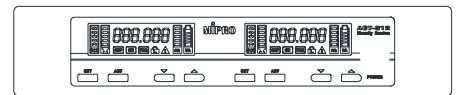
## Introduction

The innovative ACT 3 Series wireless microphone systems are a culmination of years of extensive design and manufacturing experience. No wiring and adjustment required as PCB, LCD and front panel are integrated.

EIA standard 19" rack-mountable metal chassis is used instead of cheap plastics. Featuring backlit LCD instead LED display for ease of use and professional appearance. PLL-synthesized technology for RF stability and matched with rugged ACT-30H & ACT-30T transmitters. Design and made in Taiwan. Advanced features and functions make it ideal for professional applications with affordable prices.

## Key Features

- EIA standard 1/2U metal receiver.
- Receiver provides bias for booster where MIPRO antenna systems can be added for extended receiving range and stability.
- Backlit LCD displays group, channel, frequency, RF level, antenna selection, AF level, battery level indicator, interference warning indicator, and panel lock indicator.
- A lit green light indicates a working mode when receiver detects an incoming signal or buttons touched. Light dims automatically when receiver is idle for about 10 seconds.
- Balanced XLR / unbalanced 1/4" audio output jack, output level switch and DC input are on the rear panel. One mixed-output switch is available for dual-channel receivers.
- High efficiency and low spurious PLL circuitry with Auto Scan function. Each receiver is presets with 11 groups, Groups 1~6, 7~10 have 8 & 16 compatible channels respectively. Up to 8 channels in group 11 can be saved and recalled within 961 user-defined frequencies. A total of 112 preset channels per band.
- World's first ACT™ function provides precise and rapid frequency sync to the transmitters.
- Advanced diversity technology for optimum reception range and reduces signal dropouts and the "PilotTone & NoiseLock" dual-squelch circuits prevent noise interference.
- Adjustable 'SQ' for higher sensitivity to increase receiving distance and lower sensitivity to reduce interference.
- Industry's only RF interference warning indicator for ideal SQ level adjustment.
- DC input socket accepts 12~15V power supply.



## Transmitters

ACT-30H	Handheld Transmitter
ACT-30T	Bodypack Transmitter

## Accessories

AD-707a	UHF Wideband 4-Channel Antenna Divider
AD-708	UHF Wideband 4-Channel Auto Gain-Control Antenna Divider
AT-70	UHF Ground Plane Antenna
AT-70Wa	Wideband Transmitting & Receiving Omni-directional Antenna
AT-90Wa	Wideband Transmitting & Receiving Log Antenna
AT-100a	Wideband Circularly Polarized Antenna
FB-71	Rack Mount Kit
FBC-71	Rear-to-Front Cables

## Technical Specifications

Channel	Dual
Chassis	EIA-Standard 19" 1/2U
Receiving Mode	Diversity
Frequency Range	UHF 480~934MHz
Antenna	Rear Panel. Detachable. 112 preset channels. Group 1-6: 8 compatible channels in each group. Group 7-10: 16 compatible channels in each group. Group 11: Up to 8 channels can be saved & recalled. 961 user-defined frequencies in group 11.
Preset Channels	
Oscillation Mode	PLL Synthesized, Frequency Stability $\leq \pm 0.005\%$ (-10~+60°C)
Sensitivity	10dB $\mu$ V, at S/N>80dB
S/N Ratio	>106dB(A)
T.H.D.	<0.5% @ 1kHz
Frequency Response	50Hz~18kHz, with high pass filter.
Squelch	"PilotTone & NoiseLock" dual-squelch circuit.
Audio Output Adjustment	Output level accurately pre-adjusted to equal to the microphone capsule sensitivity.
Maximum Output Level	2-level Switch: Line & Mic
Power Supply	External AC Adapter, 12~15V DC, 1A
Dimensions	210(W)×44(H)×180(D)mm / 8.3(W)×1.7(H)×7.1(D)"
Weight	Approx. 0.95kg / 2.1lbs



## MIPRO Electronics Co., Ltd

Headquarters: 814 Pei-kang Road, Chiayi, 60096, Taiwan  
Tel: +886.5.238.0809 | Fax: +886.5.238.0803  
www.mipro.com.tw | mipro@mipro.com.tw