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 functioin. 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 "PiloTone & 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.
Preset Channels	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.
Oscillation Mode	PLL Synthesized, Frequency Stability≦±0.005% (-10~+60℃)
Sensitivity	10dBμV, at S/N>80dB
S/N Ratio	>106dB(A)
T.H.D.	<0.5% @ 1kHz
Frequency Response	50Hz~18kHz, with high pass filter.
Squelch	"PiloTone & 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)x7.1(D)"
Weight	Approx. 0.95kg / 2.1lbs

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ACT-30H

Handheld Transmitter Microphone



ACT-30H has a patented built-in antenna design for outstanding transmission efficiency. Featuring an easy-to-read screen, proprietary lockable silent on/off switch and extremely low handling noise characteristics. Durable, lightweight construction built for professional performance with superb RF transmission reliability.

Key Features

- Rugged, ergonomically designed housing
- ACT™ syncs the transmitter and receiver frequency automatically
- Interchangeable condenser or dynamic microphone capsule modules are available
- Extremely low handling noise
- Hardened steel grille resists wear and abuse
- Built-in foam reduces pop, breath and wind noise
- Pilotone squelch for interference-free operation
- Lockable silent on/off switch
- 4-segment battery status meter
- LCD displays group, channel & error message code
- 20-hour battery life per 2 'AA' alkaline batteries
- Optional multi-colored identification rings
- Up to 100 m (330 ft.) operating range (line-of-sight)
- 100% made in Taiwan

Technical Specifications

RF Frequency Range:	UHF 480~934 MHz
Bandwidth:	24 MHz
Oscillation Mode:	PLL-synthesized
RF Output Power:	10~30 mW (country dependent)
Channel Set-Up:	ACT sync
Spurious Emissions:	<-55 dBc
Maximum Input Level:	140 dB SPL
Battery Type:	AA × 2 (1.5-Volt)
Battery Life:	Up to 20 hours (alkaline)
Dimensions:	50(Ø) × 233(L) mm 2.0(Ø) × 9.2(L) inches
Net Weight:	Approx. 246 g / 8.68 oz (excluding batteries)

Microphone Capsules

- **MU-59** Dynamic, Supercardioid
- **MU-79** Condenser, Cardioid
- **MU-89** True Condenser, Cardioid

Accessories

- **RH-77a** Multi-colored rings (10 pieces)
- **MD-20** Microphone Clip
- **MS-20** Desktop Microphone Tripod

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ACT-30T

Bodypack Transmitter



ACT-30T is a compact, lightweight yet robust bodypack transmitter. Featuring outstanding transmission reliability, transparent audio performance and easy-to-ready screen.

Industry's first ACT sync channel set-up, other useful features and it interfaces with any MIPRO lavalier, headworn and instrument microphones and cables.

Key Features

- Miniature, compact design
- Lightweight, rugged construction
- ACT™ syncs the transmitter and receiver frequency automatically
- Pilotone squelch for interference-free operation
- Built-in transmitter AF gain adjustment
- Selectable impedance for microphone or guitar
- Connector for external remote mute switch cable
- 4-segment battery status meter
- LCD displays group, channel, frequency code, AF gain level, mute & lock status & error code
- Industry standard mini-XLR 4-pin connector is utilized for quick and screw lock connection
- Works with any MIPRO headworn, lavaliere and instrument microphones and cables
- Adjustable up or down belt clip
- Up to 20-hour battery life per 2 AA alkaline batteries

Technical Specifications

RF Frequency Range:	UHF 480~934 MHz
Frequency Band	24 MHz
Oscillation Mode:	PLL-synthesized
RF Output Power:	10/50 mW (country dependent)
Channel Set-Up:	ACT sync
Maximum Input Level:	0 dBV
Spurious:	<-55 dBc
Battery Type:	AA × 2 (1.5-Volt)
Battery Life:	Up to 20 hours (alkaline)
Dimensions:	63(W) × 82(H) × 22(D) mm 2.5(W) × 3.2(H) × 0.9(D) inches
Net Weight:	Approx. 81g / 2.9oz (excluding batteries)

Microphones

- **MU-53L/53LS** 10mm Uni-directional Lavalier Microphone
- **MU-55L/55LS** 4.5mm Omni-directional Lavalier Microphone
- **MU-13 (new)** 3mm Single-sided Earworn Microphone
- **MU-23 (new)** 3mm Dual-sided Omni-directional Headworn Mic
- **MU-210 (new)** 10mm Dual-sided Uni-directional Headworn Mic
- **MU-53HN/53HNS** 10mm Uni-directional Headworn Microphone
- **MU-55HN/55HNS** 4.5mm Omni-directional Headworn Microphone
- **MU-40G** Guitar/Bass Instrument Cable

Accessory

- **MJ-70** Remote Mute Switch Cable
- **ASP-10** Neoprene Sports Pouch

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