

RADIO ACTIVE DESIGNS



Wireless Solutions for a Changing World

Radio Active Designs has introduced the production community's first ever Enhanced Narrow Band™ wireless intercom system. Enhanced Narrow Band™ offers RF channels possessing an occupied bandwidth of a mere 30kHz with the audio characteristics one would expect from a traditional FM system. The UV-1G also utilizes the relatively unused VHF range for all belt pack portable devices. This leaves more room for operation of other wireless devices, such as In-Ear Monitors and Wireless Microphones.

UV 1G



UV-1G Wireless Intercom System



- Each channel has an occupied bandwidth of 30kHz
- Packs operate in the VHF Range which clears up valuable UHF spectrum for microphones and IEMs
- Operate 30 base stations with up to 180 belt packs in the same UHF footprint as a 1 base station 4 belt pack system that uses traditional FM technology
- Up to 6 belt packs to one base station
- Audio quality of traditional FM intercom systems

UV-1G Specifications

RF Frequency Range	470.025-607.975 Base Tx and 174.025-215.975MHz Belt Tx
Power Requirements	100-240 VAC, 50-60 Hz, 2.5A max IEC receptacle
Temperature Range	-4° F to 131° F (-20° C to 55° C)
Dimensions	
Base Station	14.68" x 17" x 1.75"
Belt Pack	5.55" x 3.78" x 1.83"
Weight	
Base Station	7 lbs.
Belt Pack	16 oz.
TX Antenna	
Belt Pack	Internal
Base Station	5/8 wave (Supplied)
RX Antenna	
Belt Pack	Internal
Base Station	1/4 wave (Supplied)
FCC ID	2AA6F-UV-1GBP, 2AA6F-UV-1GBS
IC ID	11482A-UV1GBP, 11482A-UV1GBS
Frequency Response	100Hz-8 kHz
Four Wire Input	Level Adjustable (2Vrms typical)
Four Wire Output	Level Adjustable (2Vrms typical)
Auxiliary Input	Adjustable (2Vrms typical)
Auxiliary Output	Adjustable (2V rms typical into 600Ω)
Stage Announce Output	Internally Adjustable (2Vrms typical at rated deviation into 600Ω)
Stage Announce Relay	Dry Contact, rated at 1 Amp, 24V Max
Mic Input Sensitivity	9mV
Local Headset Output	40mW output into 600Ω (1% Distortion)

TRANSMITTER

Type	Two Transmitters, Synthesized
Transmit Power (each transmitter)	Base: 20mW-250mW, Belt 10mW-20mW (Part 15 and Part 74 qualified)
Modulation Type	Enhanced Narrow Band
RF Frequency Stability	±1.5ppm
Occupied Bandwidth	25 kHz
Radiated Harmonics and Spurious	Exceeds FCC Requirements

RECEIVER

Type	Direct Conversion
RF Sensitivity	-117dBm for 12dB SINAD
Squelch Threshold	Automatic
IF Selectivity	25 kHz
RF Frequency Stability	±1.5 ppm
Distortion	<1% at full modulation