



**UHF Wireless  
Microphone Systems  
C 8900A - 96**

**PROFESSIONAL AUDIO PRODUCTS**



## DESCRIPTION

REDBACK® UHF radio microphone systems incorporate true diversity reception, ensuring a consistent and clear microphone signal with minimal dropout and noise interference. An on board microchip monitors the signal strength received by both antennas, and automatically processes the best quality signal. It includes a unique noise reduction system which automatically compensates for high level sound inputs thus avoiding distortion. Available in 6 fixed frequencies chosen to operate without adjacent channel interference. A range in excess of 100m is possible in ideal conditions.

Hand held, lavalier microphone and headband microphone transmitters are available for use with the receiver. Receiver output can be selected for either microphone level or auxiliary level. Audio output level is displayed via an LED bargraph display and the active diversity channel (A or B) is also displayed via LED's. The unit is supplied with a 12V DC power supply.

## FEATURES

- Operates on 800MHz UHF Band
- 1RU metal chassis for either desk mount or 19" Rack Mount
- Multiple frequencies available
- True diversity operation
- Hand held, lavalier or head-worn microphone transmitters available
- Tone squelch circuit for noise free operation
- Operating range up to 100m in ideal conditions
- Output level can be varied from microphone to auxiliary level
- Front mounted volume control
- LED indicators for active channel and audio output level
- 6.35mm audio output socket for Aux level, 3 pin XLR for Mic level
- 12V DC operation (AC/DC Adaptor supplied)
- Includes XLR to XLR 3 pin audio lead and rack ears
- Receiver has inbuilt power supply for optional remote antenna booster

## FREQUENCY GUIDE

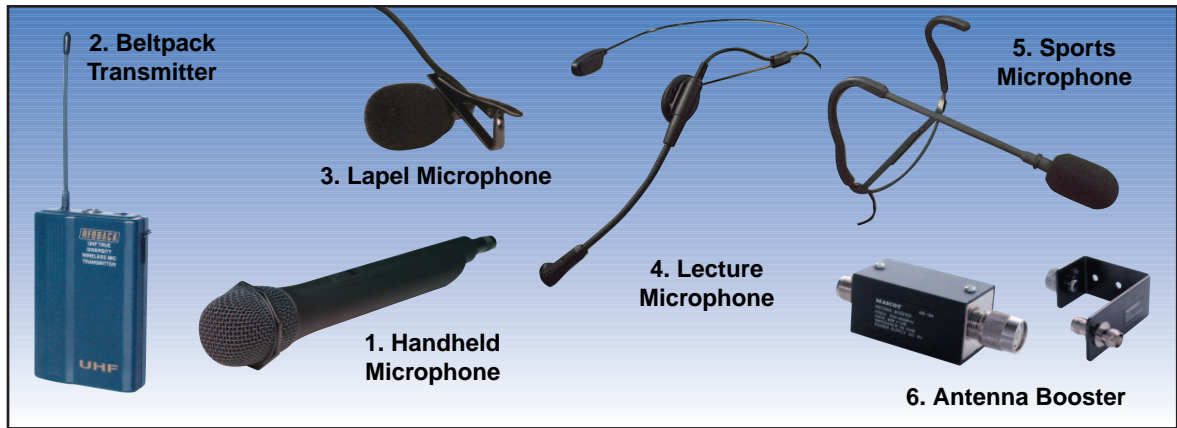
Receivers		H/Held Mic Transmitter		Belt Pack Transmitter		Mics to Suit Belt Pack	
Freq	Part No	Freq	Part No	Freq	Part No	Style	Part No
800.60MHz	<b>C 8900A</b>	800.60MHz	<b>C 8902</b>	800.60MHz	<b>C 8905</b>	Lapel	<b>C 8907</b>
803.25MHz	<b>C 8920A</b>	803.25MHz	<b>C 8922</b>	803.25MHz	<b>C 8925</b>	Sports	<b>C 8911</b>
804.80MHz	<b>C 8940A</b>	804.80MHz	<b>C 8942</b>	804.80MHz	<b>C 8945</b>	Lecture	<b>C 8913</b>
807.875MHz	<b>C 8960A</b>	807.875MHz	<b>C 8962</b>	807.875MHz	<b>C 8965</b>		
809.425MHz	<b>C 8980A</b>	809.425MHz	<b>C 8982</b>	809.425MHz	<b>C 8985</b>		
813.30MHz	<b>C 8990A</b>	813.30MHz	<b>C 8992</b>	813.30MHz	<b>C 8995</b>		



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### ACCESSORIES



#### 1. Handheld Microphone Transmitter

The Redback handheld microphone transmitter offers exceptional performance and is very simple to use. The head of the microphone incorporates an anti-roll band and the textured body ensures minimal handling noise. The robust integrated antennae design also ensures the microphone is not damaged with everyday use. Supplied with cardoid electret capsule. Requires 2 x AA high quality alkaline batteries. Typical battery life would be around 30 hours.

#### 2. Belt Pack Transmitter

The Redback belt pack transmitter is compact, lightweight and robust. It is fitted with a 3 pin mini XLR connector making it easy to connect the desired microphone. The On/Off/Mute switch is located on the top of the transmitter. A gain control is provided and may be adjusted by the included tool. Power is derived from a 9V battery. For prolonged reliable use, we recommend only quality long life alkaline batteries be used. Typical use would be around 8 hours.

#### 3. C 8907 Lapel Microphone

The Redback lapel microphone is designed to provide clear microphone pick-up in a discrete package. Incorporating a high definition unidirectional microphone insert for crystal clear pickup of speech. It simply clips onto your garment.

#### 4. C 8913 Lecture Headband Microphone

The Redback lecture headband microphone is a lightweight head-worn unidirectional microphone designed for complete hands-free operation. The high definition microphone insert offers crystal clear speech pick-up. It is designed for any non-vigorous activity. Ideal for lecturers and live demonstrations. The microphone simply slips over the ears and plugs into the Redback Belt Pack Transmitter.

#### 5. C 8911 Sports Headband Microphone

The Redback sports headband microphone is designed to provide trouble free performance even through the most vigorous of workouts. A semi-rigid gooseneck ensures the microphone remains steady during heavy exercise and is molded to fit comfortably over the ears and back of the neck. The microphone insert is encapsulated in a waterproof membrane ensuring continual operation regardless of the environment. It is noise cancelling to prevent unwanted interference. The microphone simply plugs into the Redback Belt Pack Transmitter.

#### 6. C 8842 Antenna Booster & C 8843 Bracket

Suitable for Redback UHF single channel wireless systems and the C 8870A 16 channel wireless system. Connects via RG58 50Ω coaxial cable and provides 9dB of gain allowing antennas to be mounted between 10 to 50m from the receiver. Typical applications would be shopping centres or sports venues. One booster is required per antenna (channel). Not suitable for older C 8900 units, only those with 'A' suffix. TNC connectors each end. Bracket supplied separately

### SPECIFICATIONS\*

CARRIER FREQUENCY:.....UHF 800MHz Band  
STABILITY: .....±0.005%  
MAXIMUM DEVIATION: .....±15kHz  
DYNAMIC RANGE:.....>96dB  
SIGNAL TO NOISE RATIO:.....>108dB  
T.H.D.: .....<0.5%  
FREQUENCY RESPONSE:.....40Hz - 20kHz ±3dB  
TONE SQUELCH: .....32kHz  
OUTPUT LEVEL: .....77.75mV Balanced Mic  
1V Unbalanced Line

#### OUTPUT CONNECTORS:

Mic Level:.....Balanced 3-Pin XLR  
Line Level:.....6.35mm Socket

#### INPUT CONNECTORS:

12V DC Power: .....2.1mm DC Jack  
Antennae:.....TNC Female Socket

#### CONTROLS:

Output Level: .....Volume  
Squelch: .....Rear Panel Trimmer  
3 Step Attenuator: .....Rear Panel Trimmer

#### INDICATORS:

Power on LED  
Output Level LEDs  
Active Diversity Channel LEDs

POWER SUPPLY: .....12-18V DC, 300mA

COLOUR: .....Black

\* Specifications Subject to Change Without Notice

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