

# Cobra<sup>®</sup> microTALK

Owner's Manual



## 2-WAY RADIO MODEL **FRS 132**

Printed in China Part No. 480-051-P

Nothing Comes Close To A Cobra™

English

**Staying in touch with your family and friends is convenient and easy when using your microTALK® radio. Some of the many uses you will discover include:**

Communicating with others while hiking, biking, and working; keeping track of family and friends at a crowded public event; checking with travel companions in another car; talking with neighbors; arranging meeting spots with others while shopping at the mall.

**Belt Clip****Secure your microTALK® radio while on the go.**

Carrying your microTALK® radio with you is easy when using the belt clip or wrist strap.

**Wrist Strap**

The belt clip easily attaches to your belt, purse, or backpack. Simply squeeze the clip and place it where you prefer.

**Customer Assistance****For Assistance In the U.S.A. or Canada**

In this user's manual, you should find all the information you need to operate your microTALK® radio. If you require further assistance after reading this manual, Cobra® Electronics offers the following customer assistance services:

**Automated Help Desk**

English only. 24 hours a day, 7 days a week 773-889-3087 (phone).

**Customer Assistance Operators**

English and Spanish. 8:00 a.m. to 6:00 p.m. CT, Monday through Friday (except holidays) 773-889-3087 (phone).

**Questions**

English and Spanish. Faxes can be received at 773-622-2269 (fax).

**Technical Assistance**

English only. [www.cobra.com](http://www.cobra.com) (on-line: Frequently Asked Questions).  
English and Spanish. [productinfo@cobra.com](mailto:productinfo@cobra.com) (e-mail).

**For Assistance Outside the U.S.A. or in French  
Contact Your Local Dealer**

# Product Features



### Important FCC Licensing Information

This device complies with part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.

**FCC Warnings:** Replacement or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by Cobra®, may cause a violation of the technical regulations of part 95 of the FCC Rules, or violation of Type Acceptance requirements of Part 2 of the Rules.

**Industry Canada Notice:** Operation is subject to the following two (2) conditions: 1) this device may not cause interference, and 2) this device must accept any interference, including interference that may cause undesired operation of the device.

«IC» before the equipment certification number signifies that the Industry Canada technical specifications were met. It does not guarantee that the certified product will operate to the user's satisfaction.

## Features

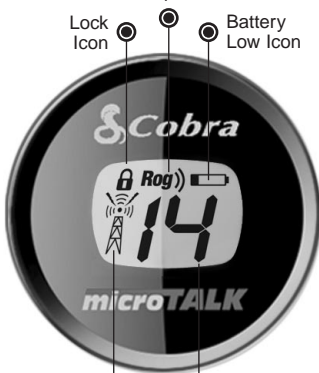
- **Two-Way Radio**  
With a range up to two (2) miles (3 km).
- **14 Channels**  
Seven shared with FRS/GMRS, seven FRS only.
- **UHF FM Frequencies**
- **Backlit LCD Display**
- **Call Alert**
- **Key Lock Button**
- **“Roger Beep”**  
Selectable On/Off confirmation tone.
- **Battery/Power Saver**
- **Auto Squelch**
- **Maximum Range Extender**
- **Speaker/Microphone Jack**
- **Belt Clip**
- **Wrist Strap**

## Backlit LCD Display

Roger Beep Icon

Lock Icon

Battery Low Icon



Receive/Transmit Tower Icon

Main Channel Numbers

## Caring for Your microTALK® Radio

Your microTALK® radio will give you years of trouble-free service if cared for properly. Handle the radio gently. Keep the radio away from dust. Never put the radio in water or in a damp place. Avoid exposure to extreme temperatures.

### Remove Belt Clip



### Pull Up Lock Tab



### Insert Batteries



## Installing and Replacing Batteries

1. Remove belt clip by releasing belt clip latch and sliding clip up.
2. Pull up on the **Battery Latch** to remove the battery compartment cover.
3. Insert four (4) AAA batteries. (Always use high quality alkaline batteries.) Position batteries according to polarity markings.
4. Replace Battery Compartment cover and belt clip.



See information on page 11 for optional battery pack and desktop charger accessories.



# Using Your Radio

## Operation

### On/Off Power



#### Turning On Your microTALK® Radio

1. Press and hold the **Power** button for two (2) seconds. A series of audible tones will indicate the radio is On.

Your microTALK® radio is now in **Standby Mode**, ready to receive transmissions. The radio is always in **Standby Mode** except when the **Talk** or **Call** buttons are pressed.

### Battery Low



#### Battery Low

When battery power is low, the **Battery Low** icon will blink. Your batteries should be replaced or recharged, if using rechargeable batteries.

#### Battery/Power Saver

Your microTALK® radio has a unique circuit designed to extend battery life. If there are no transmissions within ten (10) seconds, the radio will automatically switch to **Battery Save Mode**. This will not affect the radio's ability to receive incoming transmissions.

### Talk Button



### 2" From Mouth



#### Talking to Another Person

1. Press and hold the **Talk** button.
2. With the microphone about two (2) inches (5cm) from your mouth, speak in a normal voice.
3. Release the **Talk** button when you are finished talking and listen for a response.

You cannot receive incoming calls while pressing the **Talk** button.



Both radios must be tuned to the same channel to communicate.



# Using Your Radio

## Operation

### Channel Select



### Selecting a Channel

1. With the radio On, select any of the 14 channels by pressing the **Channel Up** or **Channel Down** button.



Both radios must be tuned to the same channel to communicate.

Channels 1 through 7 are shared with FRS/GMRS. Channels 8 through 14 are FRS only.



See page 8 for FRS frequency allocations and compatibility charts.

### Listening



### Listening for a Response When You are Finished Talking:

1. Release the **Talk** button to receive incoming transmissions. Your microTALK® radio is always in **Standby Mode** while the **Talk** or **Call** buttons are not pressed.

### Adjusting Volume



### Adjusting the Volume

1. Adjust the volume by pressing the **Volume Up** or **Volume Down** button.

### Call Button



### Calling Another Person

1. To alert another person that you are calling, press the **Call** button.

The other person will hear a two (2) second ringing tone. You cannot send or receive transmissions during the two (2) second call tone.



# Using Your Radio

## Operation

### Roger Beep Icon



### “Roger Beep” Confirmation Tone

Your listener will hear an audible tone when you release the **Talk** button. This alerts the other party that you are finished talking and it is **OK** for them to speak. This feature can be turned On or Off.

### Turning “Roger Beep” On or Off

When turning On your microTALK® radio for the first time, “Roger Beep” will be On.

1. Press the **Call** and **Lock** buttons at the same time to turn the “Roger Beep” On or Off.

The setting you select will be saved when you turn your radio Off and On again. When the Roger Beep is On, the Roger Beep icon will be displayed.

### Call/Lock



### Light/Max Range



### Illuminating the Display

1. Press the **Light/Max Range** button to illuminate the display for ten (10) seconds.

### Maximum Range

Your microTALK® radio is equipped with Auto Squelch, which automatically shuts Off weak transmissions and unwanted noise due to terrain, conditions, or if you've reached your maximum range limit.

You can temporarily turn Off Auto Squelch, allowing all signals to be received and extending the maximum range of your radio.

### To Turn Maximum Range Extender On:

1. Press and hold the **Light/Max Range** button for five (5) seconds. You will hear two (2) beeps indicating your radio is On.

### To Turn Maximum Range Extender Off:

1. To turn Maximum Range Extender Off, press and hold the **Light/Max Range** button for one (1) second or change channels.

### Light/Max Range





# Using Your Radio

## Operation

### Press Lock Button



### Using Lock

The Lock button locks the **Channel** and **Power** buttons to prevent accidental operation.

### To Use the Lock Function:

1. Press the **Lock** button for one (1) second to turn the Lock On or Off.

A double beep sound is used to confirm your Lock On or Off request. When in **Lock Mode**, the Lock icon will be displayed.

### Lock Icon



### Speaker/Microphone



### Speaker/Microphone Jack

Your microTALK® radio can be fitted with an external Speaker/Microphone, freeing your hands for other tasks. See page 11 for optional accessories. Only Cobra® authorized accessories are recommended.

### To Attach Your Speaker/Microphone:

1. Open the **Speaker/Microphone** tab on top of your microTALK® radio.
2. Insert the plug into the **Speaker/Microphone** jack.

### Maximum Range



### Reduced Range



### Reduced Range



### microTALK® Range

Your microTALK® radio has a range of up to two (2) miles (3 km). Your range will vary depending on terrain and conditions. In flat, open country your radio will operate at maximum range.

Buildings and foliage in the path of the signal can reduce the range.

Dense foliage and hilly terrain will further reduce the signal.



Remember, you can achieve maximum range by using Maximum Range Extender. See above for details.





### A. FRS Frequency Allocation and Compatibility

- A = 14 Channel FRS  
Channel No. Displayed
- B = Type of Radio Service
- C = Frequency in MHz
- D = Power in Watts

A	B	C	D
1	FRS/GMRS	462.5625	0.5
2	FRS/GMRS	462.5875	0.5
3	FRS/GMRS	462.6125	0.5
4	FRS/GMRS	462.6375	0.5
5	FRS/GMRS	462.6625	0.5
6	FRS/GMRS	462.6875	0.5
7	FRS/GMRS	462.7125	0.5
8	FRS	467.5625	0.5
9	FRS	467.5875	0.5
10	FRS	467.6125	0.5
11	FRS	467.6375	0.5
12	FRS	467.6625	0.5
13	FRS	467.6875	0.5
14	FRS	467.7125	0.5

The Cobra® line of quality products includes:

CB Radios, microTALK® Radios, Radar/Laser Detectors, Safety Alert® Traffic Warning Systems, Accessories, GPS (Global Positioning System), HighGear™ Accessories

### B. Receiver

	Unit	Nominal
1. Sensitivity		
For 12 DB SINAD	dBm	-122
For Call Signal Detection	dBm	-122
2. Max. Audio Output		
@10% THD	mW	350
3. Max. S/N Ratio		
@ 1mV RF Input	dB	40
4. Squelch		
a) Sensitivity	dB sinad	10
b) Attack Time	mS	120
c) Closing Time	mS	200
5. Audio Frequency Response		
@ 300 HZ	dB	-3
@ 2500 HZ	dB	-10
6. Signal Displacement BW	+/-KHz	6
7. Adjacent Channel Rejection	dB	50
8. Intermodulation Rejection	dB	65
9. Spurious Response Rejection	dB	55

### C. Transmitter

	Unit	Nominal
1. Power	mW	500
2. Carrier Frequency Stability	±Hz	500
3. Modulation Limiting	KHz	2.5
4. Carrier Attack Time	mS	80
5. Audio Frequency Response		
@ 300 HZ	dB	-12
@ 2500 HZ	dB	3
6. Audio Distortion	%	3
7. Hum Noise	dB	30
8. Transient Frequency Behavior		
a) TX On	mS	30
b) TX Off	mS	5

### D. Power Supply

	Unit	Nominal
1. Battery Life (5:5:90 RATIO)		
With Alkaline Batteries	HR	24
2. Battery Operating Range	V	4.2 - 6.0



**If you have any questions about operation or installing your new Cobra® product, or if you are missing parts... Please call Cobra® first! DO NOT RETURN THIS PRODUCT TO THE STORE! See customer service on page 2.**

## U.S.A. and Canadian Product Service Questions

If your product should require factory service, please call Cobra® first before sending your radio. This will ensure the fastest turn-around time on your repair. You may be asked to send your radio to the Cobra® factory. It will be necessary to furnish the following to have the product serviced and returned.

1) For Warranty Repair include some form of proof-of-purchase, such as a mechanical reproduction or carbon of a sales receipt. If you send the original receipt, it cannot be returned; 2) Send the entire product; 3) Enclose a description of what is happening with the radio. Include a typed or clearly printed name and address of where the radio is to be returned; 4) Pack radio securely to prevent damage in transit. If possible, use the original packing material; 5) Ship prepaid and insured by way of a traceable carrier such as United Parcel Service (UPS) or First Class Mail to avoid loss in transit to **Cobra® Factory Service**, Cobra® Electronics Corporation, 6500 West Cortland Street, Chicago, Illinois 60707 USA; 6) If the radio is in warranty, upon receipt of your radio it will either be repaired or exchanged depending on the model. Please allow approximately 3 – 4 weeks before contacting Cobra® for status. If the radio is out of warranty, a letter will automatically be sent informing you of the repair charge or replacement charge. **If you have any questions, please call 773-889-3087 for assistance.**

### Canadian Product Assistance Information

For out of warranty service, ship prepaid this product to: AVS Technologies Inc., 2100 TransCanada Hwy S., Montreal, Quebec, H9P 2N4. We reserve the right to repair or replace the radio with an equivalent product. Please include the following information: Date of purchase, Model No., Dealer Purchased from, Dealer address, Dealer phone No.

## Warranty



### Limited 2-Year Warranty For Products Purchased in the U.S.A.

**Cobra®** Electronics Corporation warrants that its Cobra® FRS radios, and the component parts thereof, will be free of defects in workmanship and materials for a period of two (2) years from the date of first consumer purchase. This warranty may be enforced by the first consumer purchaser, provided that the product is utilized within the U.S.A. Cobra® will, without charge, repair or replace, at its option, defective FRS radios, products or component parts upon delivery to the Cobra® Factory Service department, accompanied by proof of the date of first consumer purchase, such as a duplicated copy of a sales receipt. You must pay any initial shipping charges required to ship the product for warranty service, but the return charges will be at **Cobra's** expense, if the product is repaired or replaced under warranty. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

**Exclusions: This limited warranty does not apply:** 1) To any product damaged by accident; 2) In the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs; 3) If the serial number has been altered, defaced, or removed; 4) If the owner of the product resides outside the U.S.A.

All implied warranties, including warranties of merchantability and fitness for a particular purpose are limited in duration to the length of this warranty. Cobra® shall not be liable for any incidental, consequential or other damages; including, without limitation, damages resulting from loss of use or cost of installation. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. **For products purchased outside the U.S.A.,** please contact your local dealer for warranty information.

### Limited 2-Year Warranty For Products Purchased in Canada.

Your new Cobra® FRS is covered by a two (2) year replacement warranty. If any manufacturing defect becomes apparent in this product within two (2) years from the original date of purchase, it will be replaced. Please return the FRS radio to your dealer with original or copy of dated proof of purchase. This warranty does not cover damages due to careless handling, negligence, accident, abuse or failure to follow operating instructions. Alteration of this product or defacing of the serial number cancels all obligations of this warranty. This warranty gives you specified legal rights. Additional warranty rights may be provided by law in some areas.



Customer Assistance

## Accessories &amp; Order Form

Name

Address (No P.O. Boxes)

City

State/Province

Zip

Country

Telephone

Credit Card Number

Type:  Visa  Mastercard  Discover

Exp. Date

Customer Signature

Item Description  
#XX-XXXCobra to drop  
in image,  
item description  
and part numberItem Description  
#XX-XXXCobra to drop  
in image,  
item description  
and part numberItem Description  
#XX-XXXCobra to drop  
in image,  
item description  
and part number

Item #	Cost Each		Qty	Amount
	U.S.	Canada		

## Ordering From U.S.

Amount	Shipping/ Handling
\$10.00 or less	\$3.00
\$10.01-\$25.00	\$5.50
\$25.01-\$50.00	\$7.50
\$50.01-\$90.00	\$10.50
\$90.01-\$130.00	\$13.50
\$130.01-\$200.00	\$16.50
\$201.01 plus	10% of purchase

For AK, HI and PR add additional \$26.95 for FedEx Next Day\* or \$10.95 for FedEx 2nd Day\* shipments.

\*Excludes weekends and holidays.

## U.S. Tax Table

Illinois add 8.75%, Indiana, Ohio, Wisconsin add 5%, Michigan add 6%

Call 773-889-3087 for pricing or visit [www.cobra.com](http://www.cobra.com).

**For credit card orders,** complete and return this order form to fax number 773-622-2269.

Or call 773-889-3087 (Press 1 from the main menu) 8:00 a.m. to 6:00 p.m. CT, Monday through Friday.

**Make check or money order** payable to: Cobra® Electronics, Attn: Accessories Dept. 6500 West Cortland Street, Chicago, IL 60707 USA

**To order online,** please visit our website: [www.cobra.com](http://www.cobra.com)

Please allow 2-3 weeks for delivery in the U.S. Prices subject to change without notice.

## U.S. Subtotal

(Tax if Applicable)

Shipping/Handling

## Canada Subtotal

G.S.T. 7%

\*\*QST 7.5%

Shipping/  
Handling

\$5.50

## Total

\*\*Quebec residents only.

## Ordering From Canada

Call 514-683-1771 for pricing.

**For credit card orders,** complete and return this order form to fax number 514-683-5307.

Or call 514-683-1771 (Press 1 from the main menu) 9:00 a.m. to 5:00 p.m. EST, Monday through Friday.

**Make check or money order** payable to: AVS Technologies, Inc., 2100 Trans Canada Highway South, Montreal, Quebec H9P 2N4

Please allow 4-6 weeks for delivery in Canada. Prices subject to change without notice.

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Communicating with others while hiking, biking, and working; keeping track of family and friends at a crowded public event; checking with travel companions in another car; talking with neighbors; arranging meeting spots with others while shopping at the mall.

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## Features

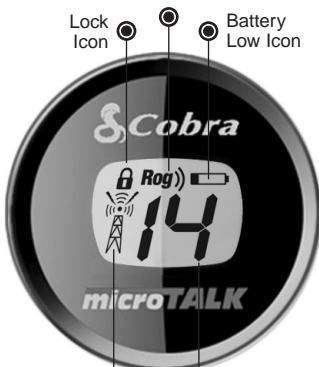
- **Two-Way Radio**  
With a range up to two (2) miles (3 km).
- **14 Channels**  
Seven shared with FRS/GMRS, seven FRS only.
- **UHF FM Frequencies**
- **Backlit LCD Display**
- **Call Alert**
- **Key Lock Button**
- **“Roger Beep”**  
Selectable On/Off confirmation tone.
- **Battery/Power Saver**
- **Auto Squelch**
- **Maximum Range Extender**
- **Speaker/Microphone Jack**
- **Belt Clip**
- **Wrist Strap**

## Backlit LCD Display

Roger Beep Icon

Lock Icon

Battery Low Icon



Receive/Transmit Tower Icon

Main Channel Numbers

## Caring for Your microTALK® Radio

Your microTALK® radio will give you years of trouble-free service if cared for properly. Handle the radio gently. Keep the radio away from dust. Never put the radio in water or in a damp place. Avoid exposure to extreme temperatures.

### Remove Belt Clip



### Pull Up Lock Tab



### Insert Batteries



## Installing and Replacing Batteries

1. Remove belt clip by releasing belt clip latch and sliding clip up.
2. Pull up on the **Battery Latch** to remove the battery compartment cover.
3. Insert four (4) AAA batteries. (Always use high quality alkaline batteries.) Position batteries according to polarity markings.
4. Replace Battery Compartment cover and belt clip.



See information on page 11 for optional battery pack and desktop charger accessories.



# Using Your Radio

## Operation

### On/Off Power



#### Turning On Your microTALK® Radio

1. Press and hold the **Power** button for two (2) seconds. A series of audible tones will indicate the radio is On.

Your microTALK® radio is now in **Standby Mode**, ready to receive transmissions. The radio is always in **Standby Mode** except when the **Talk** or **Call** buttons are pressed.

### Battery Low



#### Battery Low

When battery power is low, the **Battery Low** icon will blink. Your batteries should be replaced or recharged, if using rechargeable batteries.

#### Battery/Power Saver

Your microTALK® radio has a unique circuit designed to extend battery life. If there are no transmissions within ten (10) seconds, the radio will automatically switch to **Battery Save Mode**. This will not affect the radio's ability to receive incoming transmissions.

### Talk Button



### 2" From Mouth



#### Talking to Another Person

1. Press and hold the **Talk** button.
2. With the microphone about two (2) inches (5cm) from your mouth, speak in a normal voice.
3. Release the **Talk** button when you are finished talking and listen for a response.

You cannot receive incoming calls while pressing the **Talk** button.



Both radios must be tuned to the same channel to communicate.



# Using Your Radio

## Operation

### Channel Select



### Selecting a Channel

1. With the radio On, select any of the 14 channels by pressing the **Channel Up** or **Channel Down** button.



Both radios must be tuned to the same channel to communicate.

Channels 1 through 7 are shared with FRS/GMRS. Channels 8 through 14 are FRS only.



See page 8 for FRS frequency allocations and compatibility charts.

### Listening



### Listening for a Response When You are Finished Talking:

1. Release the **Talk** button to receive incoming transmissions. Your microTALK® radio is always in **Standby Mode** while the **Talk** or **Call** buttons are not pressed.

### Adjusting Volume



### Adjusting the Volume

1. Adjust the volume by pressing the **Volume Up** or **Volume Down** button.

### Call Button



### Calling Another Person

1. To alert another person that you are calling, press the **Call** button.

The other person will hear a two (2) second ringing tone. You cannot send or receive transmissions during the two (2) second call tone.





# Using Your Radio

## Operation

### Roger Beep Icon



### “Roger Beep” Confirmation Tone

Your listener will hear an audible tone when you release the **Talk** button. This alerts the other party that you are finished talking and it is **OK** for them to speak. This feature can be turned On or Off.

### Turning “Roger Beep” On or Off

When turning On your microTALK® radio for the first time, “Roger Beep” will be On.

1. Press the **Call** and **Lock** buttons at the same time to turn the “Roger Beep” On or Off.

The setting you select will be saved when you turn your radio Off and On again. When the Roger Beep is On, the Roger Beep icon will be displayed.

### Call/Lock



### Light/Max Range



### Illuminating the Display

1. Press the **Light/Max Range** button to illuminate the display for ten (10) seconds.

### Maximum Range

Your microTALK® radio is equipped with Auto Squelch, which automatically shuts Off weak transmissions and unwanted noise due to terrain, conditions, or if you've reached your maximum range limit.

You can temporarily turn Off Auto Squelch, allowing all signals to be received and extending the maximum range of your radio.

### To Turn Maximum Range Extender On:

1. Press and hold the **Light/Max Range** button for five (5) seconds. You will hear two (2) beeps indicating your radio is On.

### To Turn Maximum Range Extender Off:

1. To turn Maximum Range Extender Off, press and hold the **Light/Max Range** button for one (1) second or change channels.

### Light/Max Range





# Using Your Radio

## Operation

### Press Lock Button



### Using Lock

The Lock button locks the **Channel** and **Power** buttons to prevent accidental operation.

### To Use the Lock Function:

1. Press the **Lock** button for one (1) second to turn the Lock On or Off.

A double beep sound is used to confirm your Lock On or Off request. When in **Lock Mode**, the Lock icon will be displayed.

### Lock Icon



### Speaker/Microphone



### Speaker/Microphone Jack

Your microTALK<sup>®</sup> radio can be fitted with an external Speaker/Microphone, freeing your hands for other tasks. See page 11 for optional accessories. Only Cobra<sup>®</sup> authorized accessories are recommended.

### To Attach Your Speaker/Microphone:

1. Open the **Speaker/Microphone** tab on top of your microTALK<sup>®</sup> radio.
2. Insert the plug into the **Speaker/Microphone** jack.

### Maximum Range



### Reduced Range



### Reduced Range



### microTALK<sup>®</sup> Range

Your microTALK<sup>®</sup> radio has a range of up to two (2) miles (3 km). Your range will vary depending on terrain and conditions. In flat, open country your radio will operate at maximum range.

Buildings and foliage in the path of the signal can reduce the range.

Dense foliage and hilly terrain will further reduce the signal.



Remember, you can achieve maximum range by using Maximum Range Extender. See above for details.



### A. FRS Frequency Allocation and Compatibility

**A = 14 Channel FRS**  
**Channel No. Displayed**  
**B = Type of Radio Service**  
**C = Frequency in MHz**  
**D = Power in Watts**

A	B	C	D
1	FRS/GMRS	462.5625	0.5
2	FRS/GMRS	462.5875	0.5
3	FRS/GMRS	462.6125	0.5
4	FRS/GMRS	462.6375	0.5
5	FRS/GMRS	462.6625	0.5
6	FRS/GMRS	462.6875	0.5
7	FRS/GMRS	462.7125	0.5
8	FRS	467.5625	0.5
9	FRS	467.5875	0.5
10	FRS	467.6125	0.5
11	FRS	467.6375	0.5
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**The Cobra® line of quality products includes:**

CB Radios, microTALK® Radios, Radar/Laser Detectors, Safety Alert® Traffic Warning Systems, Accessories, GPS (Global Positioning System), HighGear™ Accessories

### B. Receiver

	Unit	Nominal
1. Sensitivity		
For 12 DB SINAD . . . . .	dBm	-122
For Call Signal Detection . . . . .	dBm	-122
2. Max. Audio Output		
@10% THD . . . . .	mW	350
3. Max. S/N Ratio		
@ 1mV RF Input . . . . .	dB	40
4. Squelch		
a) Sensitivity . . . . .	dB sinad	10
b) Attack Time . . . . .	mS	120
c) Closing Time . . . . .	mS	200
5. Audio Frequency Response		
@ 300 HZ . . . . .	dB	-3
@ 2500 HZ . . . . .	dB	-10
6. Signal Displacement BW . . . . .	+/-KHz	6
7. Adjacent Channel Rejection . . . . .	dB	50
8. Intermodulation Rejection . . . . .	dB	65
9. Spurious Response Rejection . . . . .	dB	55

### C. Transmitter

	Unit	Nominal
1. Power. . . . .	mW	500
2. Carrier Frequency Stability. . . . .	±Hz	500
3. Modulation Limiting. . . . .	KHz	2.5
4. Carrier Attack Time . . . . .	mS	80
5. Audio Frequency Response		
@ 300 HZ . . . . .	dB	-12
@ 2500 HZ . . . . .	dB	3
6. Audio Distortion . . . . .	%	3
7. Hum Noise . . . . .	dB	30
8. Transient Frequency Behavior		
a) TX On . . . . .	mS	30
b) TX Off . . . . .	mS	5

### D. Power Supply

	Unit	Nominal
1. Battery Life (5:5:90 RATIO)		
With Alkaline Batteries . . . . .	HR	24
2. Battery Operating Range . . . . .	V	4.2 – 6.0



**If you have any questions about operation or installing your new Cobra® product, or if you are missing parts... Please call Cobra® first! DO NOT RETURN THIS PRODUCT TO THE STORE! See customer service on page 2.**

## U.S.A. and Canadian Product Service Questions

If your product should require factory service, please call Cobra® first before sending your radio. This will ensure the fastest turn-around time on your repair. You may be asked to send your radio to the Cobra® factory. It will be necessary to furnish the following to have the product serviced and returned.

1) For Warranty Repair include some form of proof-of-purchase, such as a mechanical reproduction or carbon of a sales receipt. If you send the original receipt, it cannot be returned; 2) Send the entire product; 3) Enclose a description of what is happening with the radio. Include a typed or clearly printed name and address of where the radio is to be returned; 4) Pack radio securely to prevent damage in transit. If possible, use the original packing material; 5) Ship prepaid and insured by way of a traceable carrier such as United Parcel Service (UPS) or First Class Mail to avoid loss in transit to **Cobra® Factory Service**, Cobra® Electronics Corporation, 6500 West Cortland Street, Chicago, Illinois 60707 USA; 6) If the radio is in warranty, upon receipt of your radio it will either be repaired or exchanged depending on the model. Please allow approximately 3 – 4 weeks before contacting Cobra® for status. If the radio is out of warranty, a letter will automatically be sent informing you of the repair charge or replacement charge. **If you have any questions, please call 773-889-3087 for assistance.**

### Canadian Product Assistance Information

For out of warranty service, ship prepaid this product to: AVS Technologies Inc., 2100 TransCanada Hwy S., Montreal, Quebec, H9P 2N4. We reserve the right to repair or replace the radio with an equivalent product. Please include the following information: Date of purchase, Model No., Dealer Purchased from, Dealer address, Dealer phone No.



## Warranty

### Limited 2-Year Warranty For Products Purchased in the U.S.A.

Cobra® Electronics Corporation warrants that its Cobra® FRS radios, and the component parts thereof, will be free of defects in workmanship and materials for a period of two (2) years from the date of first consumer purchase. This warranty may be enforced by the first consumer purchaser, provided that the product is utilized within the U.S.A. Cobra® will, without charge, repair or replace, at its option, defective FRS radios, products or component parts upon delivery to the Cobra® Factory Service department, accompanied by proof of the date of first consumer purchase, such as a duplicated copy of a sales receipt. You must pay any initial shipping charges required to ship the product for warranty service, but the return charges will be at **Cobra's** expense, if the product is repaired or replaced under warranty. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

**Exclusions: This limited warranty does not apply:** 1) To any product damaged by accident; 2) In the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs; 3) If the serial number has been altered, defaced, or removed; 4) If the owner of the product resides outside the U.S.A.

All implied warranties, including warranties of merchantability and fitness for a particular purpose are limited in duration to the length of this warranty. Cobra® shall not be liable for any incidental, consequential or other damages; including, without limitation, damages resulting from loss of use or cost of installation. Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. **For products purchased outside the U.S.A.,** please contact your local dealer for warranty information.

### Limited 2-Year Warranty For Products Purchased in Canada.

Your new Cobra® FRS is covered by a two (2) year replacement warranty. If any manufacturing defect becomes apparent in this product within two (2) years from the original date of purchase, it will be replaced. Please return the FRS radio to your dealer with original or copy of dated proof of purchase. This warranty does not cover damages due to careless handling, negligence, accident, abuse or failure to follow operating instructions. Alteration of this product or defacing of the serial number cancels all obligations of this warranty. This warranty gives you specified legal rights. Additional warranty rights may be provided by law in some areas.



Customer Assistance

# Accessories & Order Form

Name

Address (No P.O. Boxes)

City

State/Province

Zip

Country

Telephone

Credit Card Number

Type:  Visa  Mastercard  Discover

Exp. Date

Customer Signature

Item Description  
#XX-XXXCobra to drop  
in image,  
item description  
and part numberItem Description  
#XX-XXXCobra to drop  
in image,  
item description  
and part numberItem Description  
#XX-XXXCobra to drop  
in image,  
item description  
and part number

Item #	Cost Each		Qty	Amount
	U.S.	Canada		

**Ordering From U.S.**

Amount	Shipping/ Handling
\$10.00 or less	\$3.00
\$10.01-\$25.00	\$5.50
\$25.01-\$50.00	\$7.50
\$50.01-\$90.00	\$10.50
\$90.01-\$130.00	\$13.50
\$130.01-\$200.00	\$16.50
\$201.01 plus	10% of purchase

For AK, HI and PR add additional \$26.95 for FedEx Next Day\* or \$10.95 for FedEx 2nd Day\* shipments.

\*Excludes weekends and holidays.

**U.S. Tax Table**

Illinois add 8.75%, Indiana, Ohio, Wisconsin add 5%, Michigan add 6%

Call 773-889-3087 for pricing or visit [www.cobra.com](http://www.cobra.com).

**For credit card orders,** complete and return this order form to fax number 773-622-2269.

Or call 773-889-3087 (Press 1 from the main menu) 8:00 a.m. to 6:00 p.m. CT, Monday through Friday.

**Make check or money order** payable to: Cobra® Electronics, Attn: Accessories Dept. 6500 West Cortland Street, Chicago, IL 60707 USA

**To order online,** please visit our website: [www.cobra.com](http://www.cobra.com)

Please allow 2-3 weeks for delivery in the U.S. Prices subject to change without notice.

**U.S. Subtotal**

(Tax if Applicable)

Shipping/Handling

**Canada Subtotal**

G.S.T. 7%

\*\*QST 7.5%

Shipping/  
Handling**\$5.50****Total**

\*\*Quebec residents only.

**Ordering From Canada**

Call 514-683-1771 for pricing.

**For credit card orders,** complete and return this order form to fax number 514-683-5307.

Or call 514-683-1771 (Press 1 from the main menu) 9:00 a.m. to 5:00 p.m. EST, Monday through Friday.

**Make check or money order** payable to: AVS Technologies, Inc., 2100 Trans Canada Highway South, Montreal, Quebec H9P 2N4

Please allow 4-6 weeks for delivery in Canada. Prices subject to change without notice.