Operating Instructions for your Cobra HH 38 WX ST

Citizens Band 2-Way Handheld CB Radio

"Ingenious Products for Easier Communication."

FCC Regulations
FCC regulations permit only "transmissions" (one party to another) rather than "broadcasts" (to a wide audience). Thus, advertising is not allowed on CB Channels because that is "broadcasting."

FCC Warnings
All transmitter adjustments other than those supplied by the manufacturer as front panel operating controls, must be made by, or under the supervision of, the holder of an FCC-issued general Radio-Telephone Operator’s License. Replacement or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by Cobra, may cause violation of the technical regulations of Part 95 of the FCC Rules, or violation of Type Acceptance requirements of Part 2 of the Rules. You should read and understand Part 95 (included with this unit) of the FCC Rules and Regulations, before operating your Cobra radio, even though the FCC no longer requires you to obtain an operator’s license.

What’s Included with Your HH 38 WX ST
1. High Efficiency Antenna
2. Removable Belt Clip
3. Wrist Strap
4. 12 Volt Cigarette Lighter Plug
5. Operating Manual
Thank you for purchasing the Cobra HH 38 WX ST handheld CB. Properly used, this Cobra product will give you many years of reliable service.

**SoundTracker®**
"Cuts noise coming in...strengthens signals going out."
This Patent pending technology dramatically improves transmission and reception of CB signals.

The revolutionary SoundTracker® System reconfigures the transmission signal which allows it to be transferred more efficiently through cluttered airwaves.

At the same time, it significantly reduces the amount of static on all incoming CB signals.

The end result is a cleaner, clearer sounding reception of signals and a more powerful transmission which dramatically improves CB communications.

**Customer Support**
Should you encounter any problems with the product or not understand its many features, please refer to this owner's manual. If, after referring to the manual, you still need help, call Cobra Customer Service at 773.889.3087.

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### Controls and Indicators

1. BNC Antenna Connector
2. Squelch Control
3. On/Off Volume Control
4. Removable Belt Clip
5. External Speaker Jack
6. External Microphone Jack
7. Charge LED
8. NIM Battery Charge Jack
9. DC Power Jack
10. Light Key
11. Channel Up/Down Keys
12. PTT (Push To Talk) Key
13. Battery Chamber
14. LCD Display Panel
15. Lock Key
16. SoundTracker® Key
17. CB/WX Weather Key and Hi/Lo Power Key
18. Instant Channel 9 & 19 and Dual Watch Key
19. Function Key
20. Channel Scan
21. Microphone

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### Our Thanks to You

Customer Support

Live operators are available
M-F 8:00 am - 5:30 pm Central
Time at:
773.889.3087

Automated Technical Assistance available 24 hours a day, seven days a week. E-mail questions to:
productinfo@cobra.com

Cobra on the World Wide Web:
Frequently Asked Questions (FAQ) can be found on-line at:
www.cobra.com
How to Use Your Cobra HH 38 WX ST

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Features of This Product
   • 40 CB Channels
   • 10 Weather Channels
   • Full Feature LCD Display
   • Dual Channel Watch
   • Full Channel Scan
   • Battery Level Meter
   • External Speaker/ Microphone Jack
   • Instant Channel 9 & 19
   • High/Low Power Saver Switch
   • BNC Antenna Connector
   • Lock Key
Operation

Attach Antenna

Note
To increase range as a portable, use CA41 telescopic loaded long range antenna. (See Accessory Page 35).

1. Turn clockwise. 1/4 turn.

2. Insert.

Install Batteries

1. Remove battery chamber cover. Press down on arrow and slide.

2. Install batteries by polarity markings.

3. Replace cover.

NiCD rechargeable batteries should be charged a minimum of 12 hours with a CA-45C charger.

Battery Installation

Note
Ignoring polarity markings (+/-) can cause damage to both the unit and the batteries.

The HH 38 WX ST requires 9 “AA” alkaline or NiCD batteries (not included with the unit).

When batteries are low or need charging the BATTERY icon will flash on the LCD display. Replace alkaline batteries or recharge NiCD batteries. NiCD rechargeable batteries should be charged a minimum of 12 hours with a CA-45C charger. NiCD rechargeables should have a rating of 1.2 vdc, 750 Mah.

Attach Belt Clip

Note
Clip slides up to attach and slides down to remove.

1. Slide belt clip up on rails of base until tab locks.

2. To remove belt clip, lift tab out and slide belt clip down.
Operation

Turning On

Note
When you turn on the HH 38 WX ST, a series of tones will be heard and the icons will briefly appear on the LCD display.

LCD lights on for 5 seconds.

Turning On
Rotate ON - OFF Volume Control \( \text{clockwise} \).

Setting Squelch

Squelch is the “control gate” for incoming signals.

1. Turn volume up louder than normal.
2. Fully \( \text{clockwise} \) closes the “gate”, allowing no incoming signals.

To achieve the Desired Squelch Setting (DSS), turn the Squelch control \( \text{counterclockwise} \) until you hear noise. Now turn the control \( \text{clockwise} \) just until the noise stops. This is the DSS setting.
**Operation**

**Select Channel**

1. **Turn power ON.**

2. **For higher channel,** push \( \uparrow \) **arrow key.**

3. **For lower Channel,** push \( \downarrow \) **arrow key.**

**Note**

For quick advance, push and hold arrow key(s).

**Note**

When switching from one channel to another, squelch will need to be reset. See Setting Squelch on pages 4 and 5.

**LCD Display**

All needed information is displayed on LCD display panel.

**2 Digit Channel Display**

**Battery Capacity Level Indicator**

**SoundTracker System™ icon**

**SIGNAL**

Incoming Strength of Signal Meter

**POWER**

Outgoing Transmission Power Meter

**Lock Key**

**PWR SAVE** Battery Save Indicator

**WX** Weather Mode Indicator

**SCAN** Scan Mode Indicator

**DW** Dual Watch Indicator

**EMG** Emergency Channel 9
Hold mic about 2 inches from mouth. Speak in a normal voice.

**Stop**
Antenna must be installed before TX

**Note**
While PTT button is depressed you cannot receive transmissions.

**Note**
During transmit, your outgoing transmission power is measured in watts and displayed on the bar graph.

To transmit, push and hold PTT button.

The TRANSMISSION POWER METER will be displayed when transmitting.

Release PTT button to receive incoming transmissions.

The INCOMING SIGNAL STRENGTH METER will be displayed when a signal is received.

Your HH38 WX ST is always ready to receive incoming signals when the PTT button is released.

When you are receiving an incoming signal, the strength of that signal will be displayed on the bar graph.
Operation

One Touch for Channel 9 and Channel 19

To gain instant access to Channels 9 (emergency) and 19 (information) from other channels:


2. Push CH 9/19 twice for Channel 19.

Note
Pressing CHANNEL UP/DOWN key will exit you from this mode.

One Touch For Channel 9 and Channel 19

To return to original channel, push CH 9/19 a third time.

All Channel Scan

To scan all 40 channels:

1. Set Desired Squelch Setting (DSS).

2. Push SCAN key. The channels will index.

3. To stop scanning, push SCAN key again.

All Channel Scan

Note
When an incoming transmission is received the HH 38 WX ST will stop scanning. 10 seconds after scan stops, scanning will resume.

Note
To set Desired Squelch Setting (DSS) see Setting Squelch on pages 4 and 5.

Pressing PTT key or scan key will terminate scan mode.
Operation

Dual Watch

Dual Watch allows simultaneous monitoring of two preselected channels. To monitor Channel 11 and 17 for incoming transmissions:

1. Set Desired Squelch Setting (DSS).
2. Select Channel 11 with CHANNEL UP/DOWN key.
3. Push and release FUNCTION key. The FUNCTION icon will be displayed.
4. Push and hold DW key until “beep” is heard. The DW icon will flash and the FUNCTION icon will disappear.
5. Select Channel 17 with CHANNEL UP/DOWN key.
6. Push DW key until “beep” is heard. The DW icon will stay on.

Note

To set Desired Squelch Setting (DSS) see Setting Squelch on pages 4 and 5.

Note

At a later time you can recall your preset DW channels by pushing and releasing the FUNCTION key and quickly pushing and releasing the DW key.

Note

When a transmission is received the HH 38 WX ST will stop monitoring. 10 seconds after the DW stops, monitoring will continue between the two channels.

7. The HH 38 WX ST display will switch between the selected channels.
8. To stop dual watch, push CHANNEL UP/DOWN key on the HH 38 WX ST.
Weather Channels

10 National Weather Channels provide weather transmission reception.

Note
The 10 National Weather Channels include 7 NOAA and 3 Canadian channels. These channels provide full coverage to keep you informed of weather conditions, 24 hours a day, 7 days a week.

For a list of weather frequencies see specifications in the Frequency Ranges section on page 32.

Note
Your HH 38 WX ST has a special auto squelch circuit for weather transmission which disables your squelch control.

Weather Channels

1. Push and release the CB/WX key and the current weather channel will appear.

2. To change weather channels push the CHANNEL UP/DOWN arrow keys.

At times, different channels can be received. Select the one with the clearest audio quality.

3. To return to normal CB operation, push and release the CB/WX key again.

The WX icon will disappear.

Note
An agency of the U.S. Department of Commerce, NOAA operates 380 stations which reach about 90% of the U.S. population. If you cannot receive a weather station, you may not have one in your area.

If you wish to receive a listing of NOAA Weather Radio Transmitter locations, contact your nearest National Weather Service Office, or write to:
National Weather Service (Attn: W/OM11), NOAA Silver Spring, MD 20910
Power Saver (HI/LOW)

Reduces transmit power output to 1 watt to extend battery life.

**Note**
The low power setting cuts the transmitting range in half, but the receiving range is not affected.

1. **Push and release** the FUNCTION key. The FUNCTION icon will be displayed.

2. Push and release the FUNCTION key.

   The PWR Save icon will appear and the FUNCTION icon will disappear.

3. **To exit Power Saver (HI/LOW) mode:**
   - Push and release the FUNCTION key.
   - FUNCTION icon will be displayed.
   - Push and release the key.
   - FUNCTION and PWR Save icon will disappear.

**Note**
Battery life is increased approximately 50% while in Battery Power Save Mode is activated. This reduces transmit power output to 1 watt.
Battery Capacity Level

To monitor the remaining power level of the HH 38 WX ST battery: check battery icon bands.

Note
Battery life is approximately 20 hours under normal use conditions.

BATTERY icon will flash if batteries are low. Replace batteries as soon as possible.

The SoundTracker® System

While previous systems only “blanket out” or limit noise in higher sound frequencies, the revolutionary new SoundTracker® System actually reduces noise while leaving the signal intact in the reception mode. In the transmission mode, it actually strengthens the signal, providing you with a significant reduction in noise on reception and transmission.

Sound clarity is measured by the ratio of the signal level to the noise level. The higher the signal-to-noise ratio, the better the sound.

How SoundTracker® Works

On Reception - “Cuts noise coming in”

With a normal CB, distant signals fall below the squelch level and are unintelligible. With a SoundTracker® CB, the noise level is cut up to 90%, which increases the signal-to-noise ratio and dramatically improves signal clarity. This also allows you to significantly reduce the squelch level, which greatly expands your listening range.

On Transmission - “Strengthens signals going out”

A SoundTracker® CB strengthens the transmit signal by more effectively using the available RF power output of the CB. The result is improved transmission signal clarity and an expanded transmission range.

Note
SoundTracker® gives you clearer, cleaner reception to improve CB communications while on the air.
Activating SoundTracker®

Note
This engages the SoundTracker® system and reduces the noise level.

1 Push and release the ST key.

The SOUNDTRACKER icon will appear.

Testing SoundTracker®

1 Select any unused channel on your CB.

2 Fully counterclockwise opens the “gate” and all signals enter. Turn the knob until it stops.

3 Deactivate soundtrack mode by pressing ST key if the icon is displayed.

continued
Operation

Turn the volume up louder than your normal listening level.

Push and release the ST key. The SOUNDTRACKER icon will appear. *Notice the significant reduction in noise.

To disengage SoundTracker® push and release ST key again. The icon will disappear.

Lighted Display

To illuminate display, push and release light key. Light will remain on for 10 seconds.

Note
At times you may experience different levels of noise reduction. Different terrains and environments will effect the SoundTracker® System’s performance.
Lock Key

Purpose is to lock most functions to avoid accidental actuation.

To lock, push and hold the LOCK key for two seconds. The LOCK icon will appear.

To unlock, push and hold the LOCK key for 2 seconds again.

Note
PTT, LIGHT, VOLUME, SQUELCH and LOCK functions are still operational while the LOCK function is activated.

In Vehicle Use
The HH 38 WX ST can be connected to your cigarette lighter with the provided adapter. This power connection does NOT charge the batteries.

In Vehicle Use

Note
Due to the characteristics of CB transmissions, it is necessary to use an external car roof/truck magnet mounted antenna (item # ATW-400) and a BNC adapter (item # CA-43) to receive optimal performance while in your vehicle. See Accessories section on page 35.

Note
DC/Power Cord is provided. To increase range as a portable, use CA41 telescopic loaded long range antenna.
How Your CB Can Serve You

A Few Rules You Should Know

• Warn of traffic problems
• Provide weather and road data
• Provide help in event of an emergency
• Provide direct contact with home or office
• Assist police by reporting erratic drivers
• Get “local information” to find destination
• Communicate with family and friends
• Suggest spots to eat and sleep
• Keep you alert while traveling

Weather Channel Messages

Local weather reports are provided by NOAA (National Oceanic Atmospheric Administration) 24 hours a day, 7 days a week. An agency of the U. S. Department of Commerce, NOAA operates 380 stations which reach about 90% of the U. S. population. If you cannot receive a weather station, you may not have one in your area. A similar network of 15 stations broadcasts continuous weather information across much of southern Canada.

Note

If you wish to receive a listing of NOAA Weather Radio Transmitter locations, contact your nearest National Weather Service Office, or write to:

National Weather Service
(Attn: W/OM11), NOAA
Silver Spring, MD 20910

For a list of weather frequencies see specifications in the Frequency Ranges section on page 32.

Weather Channel Messages

A Few Rules You Should Know

A. Conversations cannot last more than 5 minutes with another station. A one minute break is required to let others use the channel.

B. You cannot blast others off the air by use of illegally amplified transmitters or illegally high antennas.

C. You cannot use CB to promote illegal activities.

D. Profanity is not allowed.

E. You may not transmit music with a CB.

F. Selling of merchandise and/or services is prohibited.
### Channel 9 Emergency Messages

1. **Set to channel 9 for emergencies**
   - Be sure antenna is properly connected.

2. **CB Distress Data**
   - When transmitting an emergency, you should request a “REACT BASE” and provide the CB distress data (called **CLIP**):

   | Call Sign | Identify yourself. |
   | Location  | Be exact.          |
   | Injuries  | Number. Type. Trapped? |
   | Problem   | Give details and help needed. |

   Transmit **CLIP** repeatedly so any monitor can assist.

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**Note**

*If no response on channel 9, try channels 19 or 14.*

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The FCC gives these examples of permitted and prohibited messages for channel 9. These are only guidelines and not all-inclusive:

<table>
<thead>
<tr>
<th>Permitted</th>
<th>Example Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>“Tornado sighted six miles north of town.”</td>
</tr>
<tr>
<td>No</td>
<td>“Post number 10. No tornado sighted.”</td>
</tr>
<tr>
<td>Yes</td>
<td>“Out of gas on I-95 at mile marker 211.”</td>
</tr>
<tr>
<td>No</td>
<td>“Out of gas in my driveway.”</td>
</tr>
<tr>
<td>Yes</td>
<td>“Four car accident on I-94 at Exit 11. Send police and ambulance.”</td>
</tr>
<tr>
<td>No</td>
<td>“Traffic moving smoothly on I-94.”</td>
</tr>
<tr>
<td>Yes</td>
<td>“Weather Bureau has issued thunderstorm warning. Bring sailboat into port.”</td>
</tr>
<tr>
<td>No</td>
<td>“Attention motorists. Weather Bureau advises snow tomorrow will accumulate 4 to 6 inches.”</td>
</tr>
<tr>
<td>Yes</td>
<td>“Fire in building at 539 Main, Evanston.”</td>
</tr>
<tr>
<td>No</td>
<td>“Halloween patrol number 3. All quiet.”</td>
</tr>
</tbody>
</table>
### CB 10-Codes

Citizen Bands have adopted the "10-CODES" for standard questions and answers. These codes provide quick and easy communication, especially in noisy areas. Following are some of the more common codes and meanings:

<table>
<thead>
<tr>
<th>Code</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-1</td>
<td>Receiving poorly</td>
</tr>
<tr>
<td>10-2</td>
<td>Receiving well</td>
</tr>
<tr>
<td>10-3</td>
<td>Stop transmitting</td>
</tr>
<tr>
<td>10-4</td>
<td>OK, message received</td>
</tr>
<tr>
<td>10-5</td>
<td>Relay message</td>
</tr>
<tr>
<td>10-6</td>
<td>Busy, stand by</td>
</tr>
<tr>
<td>10-7</td>
<td>Out of service, leaving</td>
</tr>
<tr>
<td>10-8</td>
<td>In service, subject to call</td>
</tr>
<tr>
<td>10-9</td>
<td>Repeat message</td>
</tr>
<tr>
<td>10-10</td>
<td>Transmission completed standing by</td>
</tr>
<tr>
<td>10-11</td>
<td>Talking too rapidly</td>
</tr>
<tr>
<td>10-12</td>
<td>Visitors present</td>
</tr>
<tr>
<td>10-13</td>
<td>Advise weather/roads</td>
</tr>
<tr>
<td>10-16</td>
<td>Make pick up at</td>
</tr>
<tr>
<td>10-17</td>
<td>Urgent business</td>
</tr>
<tr>
<td>10-18</td>
<td>Anything for us?</td>
</tr>
<tr>
<td>10-19</td>
<td>Return to base</td>
</tr>
<tr>
<td>10-20</td>
<td>My location is</td>
</tr>
<tr>
<td>10-21</td>
<td>Call by phone</td>
</tr>
<tr>
<td>10-22</td>
<td>Report in person to</td>
</tr>
<tr>
<td>10-23</td>
<td>Stand by</td>
</tr>
<tr>
<td>10-24</td>
<td>Completed last assignment</td>
</tr>
<tr>
<td>10-25</td>
<td>Can you contact</td>
</tr>
<tr>
<td>10-26</td>
<td>Disregard last info</td>
</tr>
<tr>
<td>10-27</td>
<td>Moving to channel</td>
</tr>
<tr>
<td>10-28</td>
<td>Identify your station</td>
</tr>
<tr>
<td>10-29</td>
<td>Time is up for contact</td>
</tr>
<tr>
<td>10-30</td>
<td>Does not conform to FCC rules</td>
</tr>
<tr>
<td>10-33</td>
<td>Emergency traffic</td>
</tr>
<tr>
<td>10-34</td>
<td>Trouble at this station</td>
</tr>
<tr>
<td>10-35</td>
<td>Confidential information</td>
</tr>
<tr>
<td>10-36</td>
<td>Correct time is</td>
</tr>
<tr>
<td>10-37</td>
<td>Wrecker needed at</td>
</tr>
<tr>
<td>10-38</td>
<td>Ambulance needed</td>
</tr>
<tr>
<td>10-39</td>
<td>Message delivered</td>
</tr>
<tr>
<td>10-41</td>
<td>Turn to channel</td>
</tr>
<tr>
<td>10-42</td>
<td>Traffic accident at</td>
</tr>
<tr>
<td>10-43</td>
<td>Traffic tie up at</td>
</tr>
<tr>
<td>10-44</td>
<td>Have a message for</td>
</tr>
<tr>
<td>10-45</td>
<td>All units within range please report</td>
</tr>
<tr>
<td>10-50</td>
<td>Break channel</td>
</tr>
<tr>
<td>10-60</td>
<td>What is next message number?</td>
</tr>
<tr>
<td>10-62</td>
<td>Unable to copy. Use phone</td>
</tr>
<tr>
<td>10-63</td>
<td>Net directed to</td>
</tr>
<tr>
<td>10-64</td>
<td>Net clear</td>
</tr>
<tr>
<td>10-65</td>
<td>Awaiting your next message/assignment</td>
</tr>
<tr>
<td>10-67</td>
<td>All units comply</td>
</tr>
<tr>
<td>10-70</td>
<td>Fire at</td>
</tr>
<tr>
<td>10-71</td>
<td>Proceed, transmission in sequence</td>
</tr>
<tr>
<td>10-77</td>
<td>Negative contact</td>
</tr>
<tr>
<td>10-81</td>
<td>Reserve hotel room for</td>
</tr>
<tr>
<td>10-82</td>
<td>Reserve room for</td>
</tr>
<tr>
<td>10-85</td>
<td>My address is</td>
</tr>
<tr>
<td>10-91</td>
<td>Talk closer to mic</td>
</tr>
<tr>
<td>10-93</td>
<td>Check my frequency on this channel</td>
</tr>
<tr>
<td>10-94</td>
<td>Give me a long count</td>
</tr>
<tr>
<td>10-99</td>
<td>Mission completed, all units secure</td>
</tr>
<tr>
<td>10-200</td>
<td>Police needed at</td>
</tr>
</tbody>
</table>
The COBRA HH 38 WX ST transceiver represents one of the most advanced AM two-way radios used as a Class D station in the Citizens Radio Service. This unit features advanced Phase Lock Loop (PLL) circuitry providing complete coverage of all 40 CB channels and 10 weather channels as shown below.

<table>
<thead>
<tr>
<th>CB Channel</th>
<th>Channel Freq. In MHz</th>
<th>CB Channel</th>
<th>Channel Freq. In MHz</th>
<th>Weather Channel</th>
<th>Weather Freq. In MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>26.965</td>
<td>21</td>
<td>27.215</td>
<td>1</td>
<td>162.550</td>
</tr>
<tr>
<td>2</td>
<td>26.975</td>
<td>22</td>
<td>27.225</td>
<td>2</td>
<td>162.400</td>
</tr>
<tr>
<td>3</td>
<td>26.985</td>
<td>23</td>
<td>27.255</td>
<td>3</td>
<td>162.475</td>
</tr>
<tr>
<td>4</td>
<td>27.005</td>
<td>24</td>
<td>27.235</td>
<td>4</td>
<td>162.425</td>
</tr>
<tr>
<td>5</td>
<td>27.015</td>
<td>25</td>
<td>27.245</td>
<td>5</td>
<td>162.450</td>
</tr>
<tr>
<td>6</td>
<td>27.025</td>
<td>26</td>
<td>27.265</td>
<td>6</td>
<td>162.500</td>
</tr>
<tr>
<td>7</td>
<td>27.035</td>
<td>27</td>
<td>27.275</td>
<td>7</td>
<td>162.525</td>
</tr>
<tr>
<td>8</td>
<td>27.055</td>
<td>28</td>
<td>27.285</td>
<td>8</td>
<td>161.650</td>
</tr>
<tr>
<td>9</td>
<td>27.065</td>
<td>29</td>
<td>27.295</td>
<td>9</td>
<td>161.775</td>
</tr>
<tr>
<td>10</td>
<td>27.075</td>
<td>30</td>
<td>27.305</td>
<td>0</td>
<td>163.275</td>
</tr>
<tr>
<td>11</td>
<td>27.085</td>
<td>31</td>
<td>27.315</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>27.105</td>
<td>32</td>
<td>27.325</td>
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*Canadian weather channels are 8, 9 and 10.
COBRA ELECTRONICS CORPORATION warrants that its COBRA CB Radios, and the component parts thereof, will be free of defects in workmanship and materials for 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.

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HA-BC

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ATW-400

Vox Microphone
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