

Uniden®

WHAM

ACCESSORY

WIRELESS MICROPHONE



Wireless Mobility

Mimic the features of your
Polaris VHF Radio from
anywhere on your boat.



NOTE: This wireless microphone is an accessory
and will not operate without the Uniden Polaris Radio.

owner's manual

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Spanish owner's manual available at www.uniden.com
<http://www.uniden.com/productsupport.cfm?cat=Marine%20Electronics>

El manual para el usuario, en el idioma español, está disponible en www.uniden.com
<http://www.uniden.com/productsupport.cfm?cat=Marine%20Electronics>

Precautions!

Before you read anything else, please observe the following:

Rechargeable Nickel-Metal-Hydride Battery Warning

- This equipment contains a rechargeable Nickel-Metal-Hydride battery.
- The rechargeable Nickel-Metal-Hydride battery contained in this equipment may explode if disposed of in a fire.
- **Do not** short-circuit the battery.
- Do not charge the rechargeable Nickel-Metal-Hydride battery used in this equipment in any charger other than the one designed to charge this battery as specified in the owner's manual. Using another charger may damage the battery or cause the battery to explode.

**Rechargeable Nickel-Metal-Hydride
Batteries Must Be Disposed
of Properly**



Additional Battery Safety Precautions

Caution! To reduce the risk of fire or injury to persons by the battery, read and follow these instructions:

1. Use only the Uniden battery pack (BT-446) specified in the owner's manual.
2. Do not dispose of the battery pack in a fire. The cell may explode. Check the Nickel Metal Hydride battery disposal package insert for disposal instructions.
3. Do not open or mutilate the battery pack. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
4. Exercise care in handling the battery in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.
5. Charge the battery pack provided with or identified for use with this product only in accordance with the instructions and limitations specified in the owner's manual provided for this product.
6. Observe proper polarity orientation between the battery pack and battery charger.

SAVE THESE INSTRUCTIONS!

The FCC Wants You To Know

Changes or modifications to this product not expressly approved by Uniden, or operation of this product in any way other than as detailed by the owner's manual, could void your authority to operate this product.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Introduction

WHAM is an accessory of the POLARIS™. The Uniden **WHAM** 900 MHz analog wireless mic is designed to provide you with years of trouble-free service. Its rugged components and materials are easily capable of withstanding the harsh marine environment. As it has a JIS7 waterproof housing to protect the electronics.

We are certain that you will enjoy your **WHAM**. To ensure that you get the most from its features, please read this operating guide carefully before using the unit.

Features

- High/Low Function
- FIPS
- WX Alert
- MMSI
- U.I.C
- Directory
- DSC Call
- Individual
- All Ships
- Geographical Call
- Standby
- Call Wait
- Position Send
- Group Call
- Position Request
- Auto Channel Change

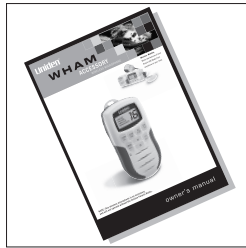
Features, specifications and availability of optional accessories are all subject to change without notice. The color of your **WHAM** may vary.

Note: *“POLARIS radio is the device that actually transmits and receives on the VHF Marine frequencies. The **WHAM** communicates with the POLARIS radio through a 900MHz link.”*

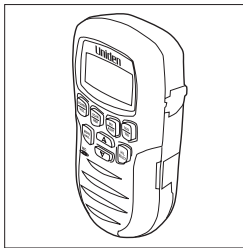
WHAM meets JIS7 requirements.

Be sure to visit our website: **www.uniden.com**
Uniden® is a registered trademark of Uniden America.
POLARIS™ is a trademark of Uniden America.

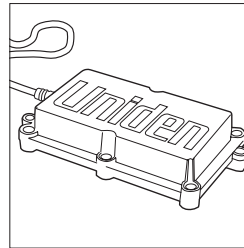
Included with your WHAM



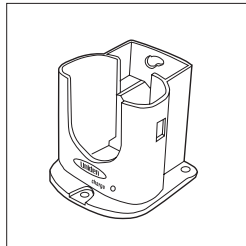
WHAM Owner's Manual
(JAZZ01466ZZ)



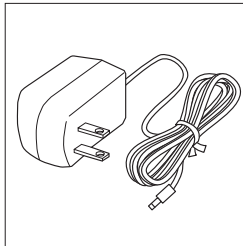
WHAM



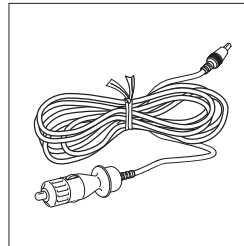
Control Unit



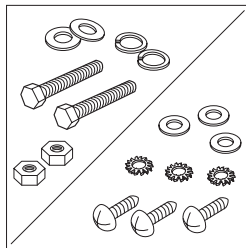
Drop-in Charger
(WH85)



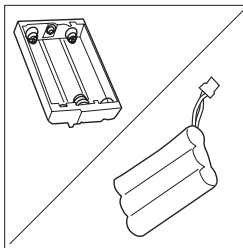
AC Adapter
(AD-168)



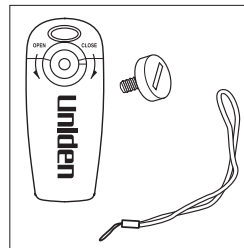
DC Adapter
(WZ1244)



Mounting Hardware Kit

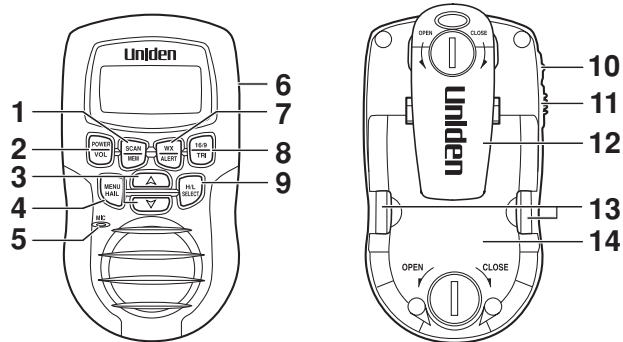


Alkaline Battery Tray
(BT-446)

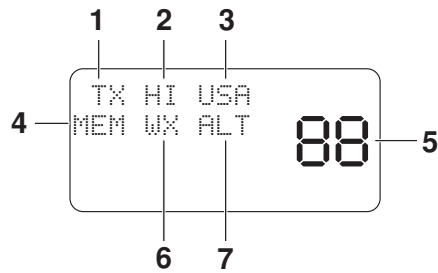


Belt Clip
(GBCT4A2561Z)
Screw
(MSCW4A2560Z)
Wrist Strap
(RECT484647Z)

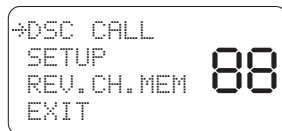
Controls and Indicators



1. **SCAN/MEM** - Select Scan mode and setup Memory channels. Press this key to activate the Scan operation. Press and hold this key for 2 seconds to place a channel into Scan Memory or remove a channel from Scan Memory.
2. **POWER/VOL** - This is to control the wireless mic power and speaker volume.
3. **▲/▼** - Change the channel number up/down. These buttons are used to adjust the volume for Hail mode and to move the cursor in Menu mode.
4. **MENU/HAIL** - It is used to access the Menu. Press and hold the key for 2 seconds to activate the Hail feature.
5. **Microphone**
6. **DISTRESS** - Send a signal of distress in case of emergency.
7. **WX/ALERT** - Select Weather Channel and Weather Alert mode. Press this key to listen to active NOAA Weather Channels. Press and hold this key for 2 seconds to place the radio into the Weather Alert mode.
8. **16/9/TRI** - Instantly change to Channel 16, Channel 9, and Triple Watch mode.
9. **H/L/SELECT** - Change transmit power HI/LO and make selections in the menu. Press this key to change the transmit power to either High or Low.
10. **LIGHT/LOCK** - Change the LCD backlight HI/MID/LO, and turn the Key Lock On/Off.
11. **PTT (Press – to – talk) Switch** - Press to transmit and release to receive.
12. **Belt Clip**
13. **Battery Compartment Lock**
14. **Battery Cover**



1. **TX** (Transmit) - Indicates transmitting.
TRI (Triple Watch) - Indicates Triple Watch Mode and Triple Watch Scan Mode.
2. **HI** (High) - Indicates transmit output is 25 Watts.
LO (Low) - Indicates transmit output is 1 Watt.
3. **USA** - Indicates US Channel Mode.
CAN - Indicates Canada Channel Mode.
INT - Indicates International Channel Mode.
4. **MEM** (Memory) - Indicates Memory Scan Mode status for each channel selected.
5. **Channel Display** - Indicates Channel Number in use.
6. **WX** - Indicates Weather Channel Mode has been activated.
7. **ALT** - Indicates Weather Alert Mode has been activated.

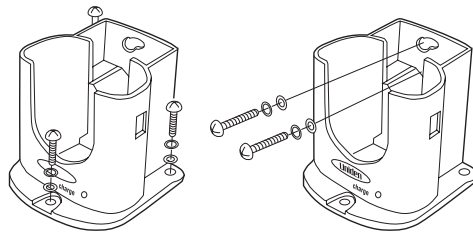


Menu Display

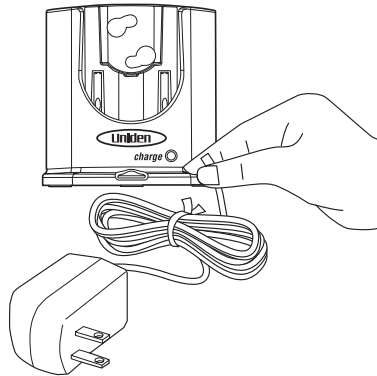
Getting Started

Mounting the Drop-in Charger

1. Mount the drop-in charger to either a bulk head or dash.



2. Plug one end of the AC adapter into a wall outlet, or the DC adapter into a cigarette lighter socket, and the other end into the drop-in charger.

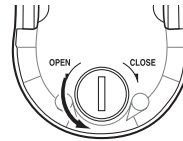


* Please turn the power Off on the **WHAM** before charging.

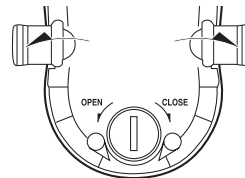
Installation

Installing the Battery Pack

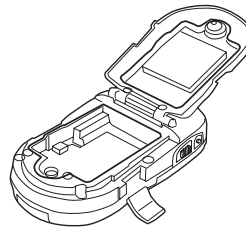
1. Use a coin or screw driver to loosen the screw on the cover.



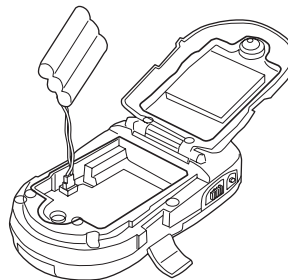
2. Unlock both sides of the battery compartment.



3. Open the cover.



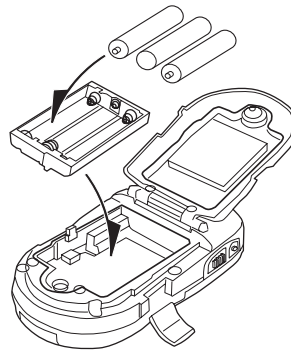
4. Connect the battery pack (BT-446) connector observing the correct polarity (black and red wires) to the jack inside the battery compartment. Do not exert any force on this connection. It could cause damage to the battery or handset.



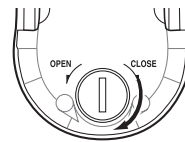
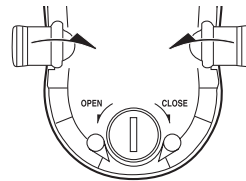
5. Tighten the screw on the cover.

Or

1. Put the alkaline battery tray inside, and install the 3 AAA batteries in the tray.

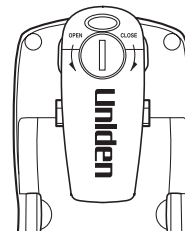


2. Replace the cover.
3. Lock both sides of the battery compartment.
4. Tighten the screw on the cover.

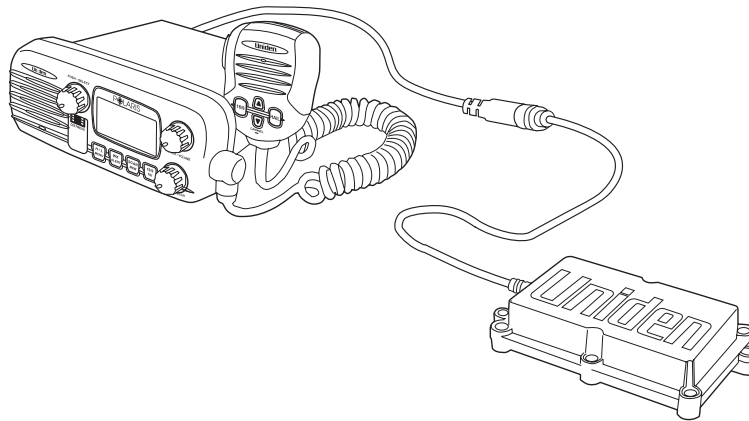


Installing the Beltclip

1. Place the beltclip on the mounting area on the back of the **WHAM**, making sure the hole in the clip lines up with the notch on the back of the **WHAM**.
2. Insert the screw into the corresponding hole and tighten.



Control Unit Connection and Installation



1. Connect the Control Unit cable and the Remote Connector.
2. Choose the best location for the POLARIS and the Control Unit.
 - Away from the vessels compass.
 - Away from metal objects that might interfere or obstruct the signal.
3. Make sure the **WHAM** icon appears on the POLARIS' LCD.

Note: Register the **WHAM** to the POLARIS (See page 12). Test the POLARIS and **WHAM** before mounting the POLARIS and Control Unit.

Operation

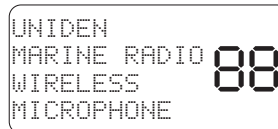
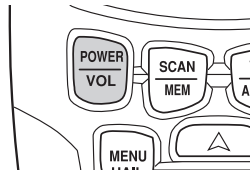
Power On/Off

Press and hold **POWER/VOL** for 2 seconds to turn the **WHAM** On. You can turn the **WHAM** Off by pressing and holding **POWER/VOL** for 2 seconds again.

* If you are not able to turn the **WHAM** Off, press and hold **POWER/VOL** for more than 15 seconds.

When you turn the unit On, you will hear a beep and the following greeting message appears on the LCD for more than 2 seconds.

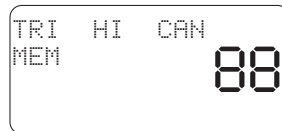
Note: The **POLARIS** radio must be turned On in order for the **WHAM** to work.



Triple Watch

Triple Watch monitors Channel 16, Channel 9, and the current Marine Channel or Weather Channel.

To activate Triple Watch, press and hold **16/9/TRI** for 2 seconds. **TRI** appears on the LCD, indicating Triple Watch mode is in effect. If a signal is received on either Channel 16 or Channel 9, the radio remains on that channel until the signal ends.

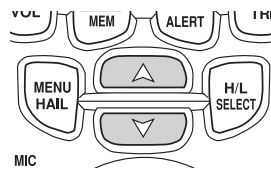


Press and hold **16/9/TRI** for 2 seconds to cancel the Triple Watch mode.

Note: While in Triple Watch mode, you can change the currently selected channel using the **▲/▼** keys. A momentary press of the **16/9/TRI** button interrupts Triple Watch mode and remains on channel 16, or on channel 9 if you press **16/9/TRI** once more. To return to the Triple Watch mode, simply press the button again.

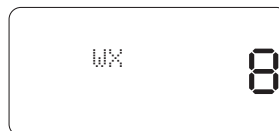
Weather Channels

To select Weather Channels 0-9, press **WX/ALERT**. The radio will go to the last selected Weather Channel. Press ▲ or ▼ to select a different Weather Channel.



To exit from Weather Channel:

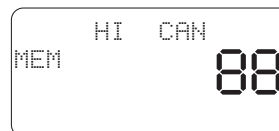
- Press **WX/ALERT**. The radio returns to the previous Marine channel.



MEM (Entering channel numbers into Memory Scan)

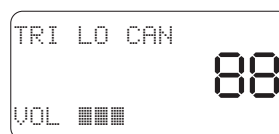
You can enter channels into Memory Scan for instant scanning at any time. When a channel is selected for Memory Scan, MEM appears on the LCD display.

To enter a channel into Memory Scan, select the channel you want to store by pressing ▲/▼ on the **WHAM**, and then press and hold **SCAN/MEM** for 2 seconds. The channel is stored in Memory Scan and MEM appears on the LCD display.



Volume Adjusting

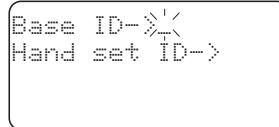
1. When you press **POWER/VOL**, the volume indicator appears on the display.
2. Press ▲ to turn the volume up, press ▼ to turn the volume down.
3. When you finish adjusting the volume, press the **POWER/VOL** to exit from the volume-adjusting mode.



Registering the WHAM to the POLARIS

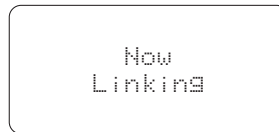
Note: When you use the **WHAM** in addition to the POLARIS wired mic, please set the BASE ID for the POLARIS the same as the **WHAM**. (Please refer to the Owners Manual for the POLARIS).

1. When the **WHAM** is turned On for the first time, the following screen appears.
2. Press ▲ to increase the number, or press ▼ to decrease the number. The number will be entered when the **H/L/SELECT** is pressed, and the blinking digit moves to the right. (You can select any number between 0000 and 9999.)
3. After the Base ID is entered, the Handset ID blinks.
4. You can select the Hand set ID by pressing ▲ or ▼, and then press **H/L/SELECT** to enter the number.
5. Turn the **WHAM** Off to confirm the data.



Base ID-
Hand set ID-

Note: When the following screen appears, the transceiver may not have the correct Base ID or the **WHAM** is too far from the POLARIS. Confirm whether the Base ID is right. If the screen does not change, move closer to the POLARIS. In order to register the **WHAM** to the POLARIS, you have to turn the POLARIS Off once. In case you need to rewrite the ID, you need to press and hold **MENU/HAIL** and turn the **WHAM** On. When you rewrite the ID, press and hold **MENU/HAIL** for 2 seconds and turn the **WHAM** On to change the Base ID and Handset ID.

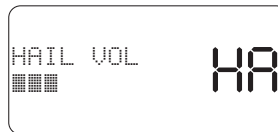


Now
Linking

* Please refer to the POLARIS' Owners Manual for menu operation. The key names may vary.

Hail

To access the Hail mode, press and hold **MENU/HAIL** for more than 2 seconds on the **WHAM**. The **HA** icon appears on the display. Press the **PTT** switch on the microphone, hold the microphone approximately two inches away from your mouth, and speak clearly in a normal voice. To cancel Hail mode, press and hold **MENU/HAIL** for more than 2 seconds on the **WHAM**.



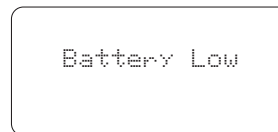
Hail Volume adjust

While the POLARIS is in the Hail mode, you can adjust the out going volume by pressing the **▲/▼** keys on the **WHAM**.



Low Battery Alert

When the battery pack (or batteries) are very low and need to be charged (or changed), the following screen appears. Complete the conversation as quickly as possible and return the handset to the charger unit for charging (or replace the batteries).



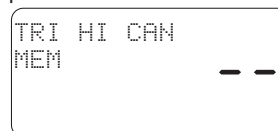
Backlight Adjust

You can adjust the backlight in 3 stages by pressing **LIGHT/LOCK** continuously (LO→MID→HI). When you push any key (except **PTT**), the backlight turns On for 5 seconds.

Key Lock On/Off

You can turn the Key Lock On by pressing and holding **LIGHT/LOCK** when the Key Lock is Off. When it is set to On, "--" appears. If you want to turn the Key Lock Off, you can press and hold **LIGHT/LOCK** for 2 seconds.

Note: *Key Lock is invalid while the WX ALERT is sounding or WX ALERT CH is receiving.*

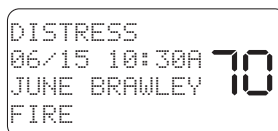
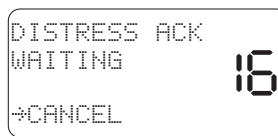
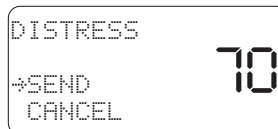


Distress

Note: You must set the user MMSI in order to send a Distress call. Please see the POLARIS Owner's Manual on page 40 to set the MMSI.

This feature will allow you to transmit a Distress call.

1. In order to transmit a Distress call, press and hold **DISTRESS** for 5 seconds. Then, the following screen appears and select **SEND** or **CANCEL**. If you select **CANCEL**, the display returns to the channel display screen.
2. Press **H/L/SELECT** to send.
3. The Distress call is transmitted and it waits for about 210 - 270 seconds. This is continued internally. The transceiver alert will be sounding, and it also "shadow-watches" for a transmission between CH16 and CH70 until an acknowledgment signal is received from the Coast Guard shore station.
4. To cancel the Distress call, press **H/L/SELECT**.
5. When the **WHAM** receives a Distress call, the following screen appears. If an acknowledgment is not received, the Distress call is repeated until an acknowledgment is received from the Coast Guard shore station.



Note: If the POLARIS receives a Distress call, it will also be displayed on the **WHAM** LCD display. An emergency alert will sound. The name will be displayed if it is the name registered in the directory. Otherwise, sender's MMSI is displayed. Latitude, longitude, and time information will also be displayed only on the POLARIS, if the GPS module is carried in the vessel that transmitted a DSC Distress call.

Troubleshooting

If the **WHAM** does not perform to your expectations, try the suggestions listed below. If you cannot get satisfactory results, call Uniden Technical Support at (800) 586-0409, 8:00 a.m. to 5:00 p.m., Central Standard Time, Monday through Friday.

SYMPTOM	CAUSE	REMEDY
Won't power On.	No or low voltage.	Check for proper voltage. Recharge or replace the batteries.
When the PTT is pressed - TX icon comes on and another radio can hear a "click" but no audio is heard.	Bad mic element.	Send in for repair.
While scanning, the radio stops on a particular channel all of the time.	A source of noise is nearby.	Eliminate the source of the noise or delete the channel from the Scan Memory.
There is noise on the receiver that the squelch will not eliminate.	An external noise is being generated by some device.	Either turn off the offending device or contact that Mfg. Regarding FCC part 15 "unintentional radiator".
WHAM won't control the POLARIS.	POLARIS is turned Off.	Turn the POLARIS On.

Care and Maintenance

Your **WHAM** is a precision piece of electronic equipment and you should treat it accordingly. Due to the rugged design, very little maintenance is required. However, a few precautions should be observed:

- You are responsible for continued FCC technical compliance of your radio.
- You are urged to arrange for periodic performance checks with your Uniden Marine dealer.

Specification

General

Standard Voltage	: Portable Unit 3.6 V DC ± 0.1 V
	Base Unit 13.8 V DC ± 0.1 V
Operating Temperature	: -10 °C to + 50 °C
Channel	: 20 (from 902.244203 MHz to 927.698745 MHz)
Standard Deviation	: 1 kHz ± 40 kHz Dev.
Buttons	: POWER, SCAN, WX, 16/9, MENU, H/L, ▲/▼
Size	: H 117.1 mm x W 63.1 mm x L 34.5 mm
	H 4.61 inches x W 2.48 inches x L 1.36 inches
Weight	: 200 g / 0.44 lbs / 7.05 oz (include batteries)
Water Protect Class	: Meets JIS 7 requirements

Receiver

		UNIT	NOMINAL	LIMIT
Sensitivity 12 dB SINAD (at ±40 kHz Dev.)		dBm	-106	< -100
with CCITT Filter				
Frequency Response (Ref: 1kHz)	0.3 kHz	dB	-43	< -30
	3.0 kHz	dB	-5	-10 to -3
Audio Output Level (8 ohms)	Vol Max	W	0.17	0.15 <
Distortion at 1 mV RF Input	Vol Lv:5	%	1.0	< 5
Hum & Noise Ratio at 1 mV RF Input		dB	70	50 <
with CCITT Filter Vol Lv:5				
Selectivity	6 dB Bandwidth +	kHz	80	50 <
(NQ20dB at DISCRI point)	6 dB Bandwidth -	kHz	80	50 <
Image Rejection Ratio				
SINAD 12 dB with CCITT Filter				
1st Image (f0 - 21, 0795428 MHz)		dB	35	25 <

Transmitter

		UNIT	NOMINAL	LIMIT
RF Power (50 Ω Load)		dBm	-4.2	-7.0 to -2.0
Modulation Sensitivity		mV	13	<16
Frequency Response (Ref: 1kHz)	0.3 kHz	dB	-15	< -10
	3.0 kHz	dB	4	0 to 8
Frequency Tolerance (25°C)		Hz	0	-2500 to +2500
Distortion		%	1.5	< 5
Hum & Noise Ratio with CCITT Filter		dB	38	30 <
Hi Speed Data Deviation		KHz	45	35 to 55
Lo Speed Data Deviation		KHz	15	10 to 20

Trickle Charger

Charge Time	: 15 hour (Typical)
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Other

Battery	: Ni-MH Battery 800 mA H BT-446
	3 AAA Alkaline Batteries
Battery Life (TX:5%, RX:5%, Stand-by:90%)	: 10 hour (Typical) BT-446

Warranty

WARRANTOR: UNIDEN AMERICA CORPORATION ("Uniden")

ELEMENTS OF WARRANTY: Uniden warrants, for three years, to the original retail owner, this Uniden Product to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION: This warranty to the original user shall terminate and be of no further effect 36 months after the date of original retail sale. The warranty is invalid if the Product is (A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden, (C) improperly installed, (D) serviced or repaired by someone other than an authorized Uniden service center for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system not manufactured by Uniden, or (F) installed or programmed by anyone other than as detailed by the Operating Guide for this product.

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will repair the defect and return it to you without charge for parts, service, or any other cost (except shipping and handling) incurred by warrantor or its representatives in connection with the performance of this warranty. THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

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PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: If, after following the instructions in this Operating Guide you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). Include evidence of original purchase and a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid, by traceable means, or delivered, to warrantor at:

**Uniden America Corporation
Parts and Service Division
4700 Amon Carter Blvd.
Ft. Worth, TX 76155
(800) 235-3874, 8 AM to 5 PM Central,
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May be covered under one or more of the following U.S. patents:

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5,434,905	5,491,745	5,533,010	5,543,605	5,574,727	5,581,598
5,650,790	5,660,269	5,661,780	5,663,981	5,671,248	5,696,471
5,717,312	5,732,355	5,754,407	5,758,289	5,768,345	5,787,356
5,794,152	5,801,466	5,825,161	5,838,721	5,864,619	5,893,034
5,912,968	5,915,227	5,929,598	5,930,720	5,960,358	5,987,330
6,044,281	6,070,082	6,125,277	6,253,088		

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