

Uniden[®]

OWNER'S MANUAL

**UNIDEN Model UH-012
CB Radio**

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Introduction

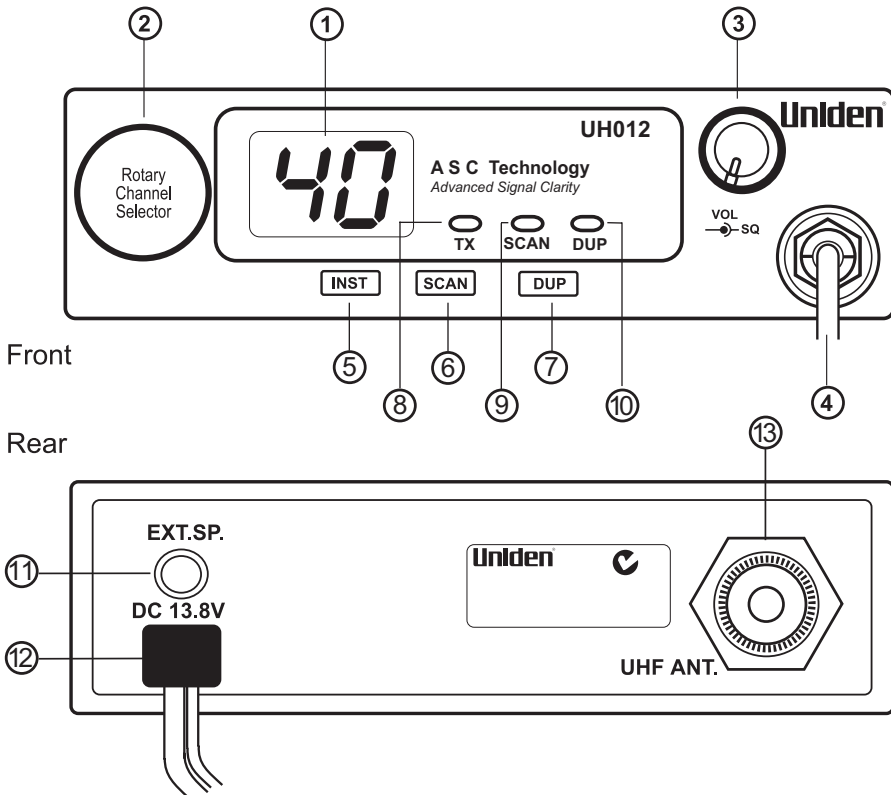
The Uniden UH-012 is designed to provide you with years of trouble free service. Its rugged components and materials are capable of withstanding harsh environments.

We are certain that you will enjoy your UH-012. Please read this Operating Manual carefully to ensure you gain the optimum performance of the unit.

Features

- Transmit & Receive FM 40CH (UHF-CB, TX Power 5w)
- 7 Segments LED
- Instant Channel (programmable)
- One touch Instant Channel recalling
- Duplex Capability (from CH01-CH08 per channel)
- Open Scan
- Rotary Channel Select
- Variable Squelch Level adjust
- Volume Control with Power On/Off Switch

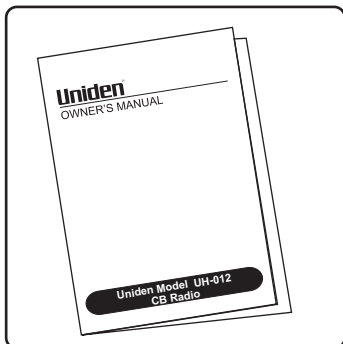
Controls / Connections / Indicators



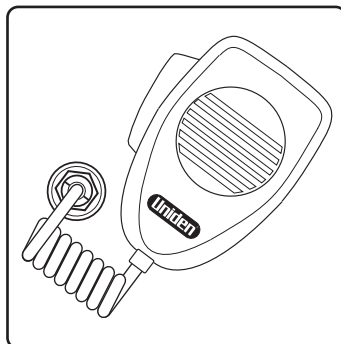
Controls and Connections

Ref.	Item	Page	Ref.	Item	Page
①	Channel Indicator (LED)	5-6	⑧	TX LED	5
②	Rotary Channel Selector	5	⑨	SCAN LED	6
③	On/Off Volume & Squelch	4	⑩	DUP LED	6
④	Microphone cord	5	⑪	Extension Speaker Jack	-
⑤	INST - Instant Channel Recall & Instant Channel Programming	7	⑫	Power Input (13.8V DC)	-
⑥	SCAN - Scan On/Off	6	⑬	UHF Antenna Connection	7
⑦	DUP - Duplex On/Off	6			

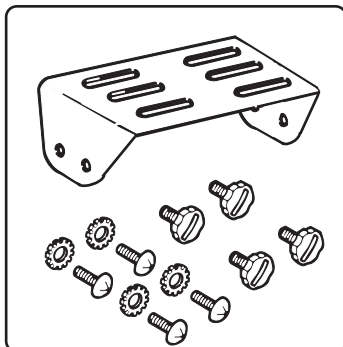
Included with your UH-012



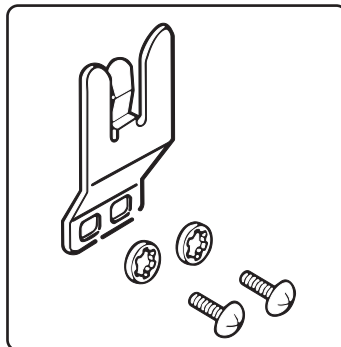
UH-012 Owners Manual



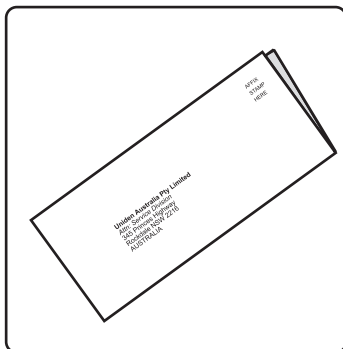
Microphone



Mounting Bracket, Knobs,
Rubber Washer, Washer Stars
and Screws



Microphone Hanger, Screws
and Washers



Consumer Support Card

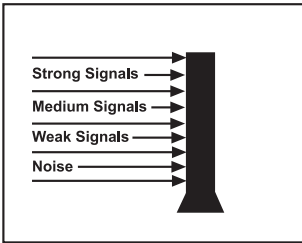
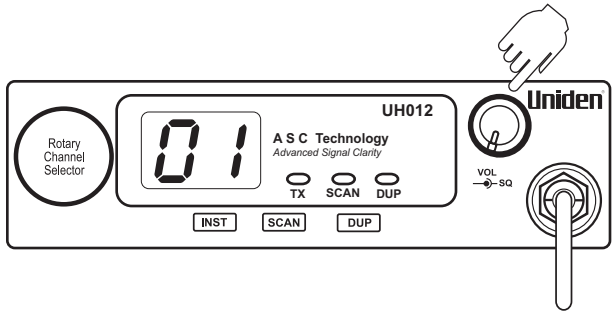
Operation

Setting the FM Squelch

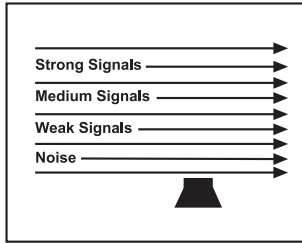
Turn the unit ON by rotating the volume control clockwise. Turn the outer ring of the control to adjust the Squelch.



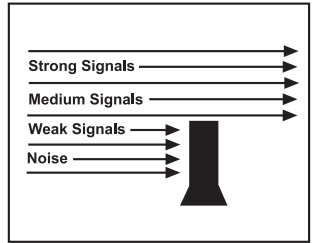
You must select a channel which is not in use before setting the SQUELCH control. (see p.7)



Think of the squelch control as a gate. If you turn the squelch fully clockwise it raises the 'Squelch Gate' so high that no signals get through.



If you turn Squelch fully counterclockwise it lowers the 'Squelch Gate' to the extent that all signals get through – weak, medium and strong signals and noise.

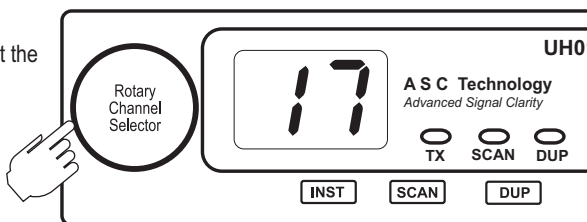


To set the 'Squelch Gate' to the desired level, turn the squelch knob counterclockwise until you hear noise. Then carefully turn the Squelch knob clockwise until the noise fades. Now only strong signals get through.

Operation

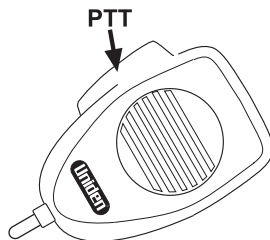
Selecting a Channel

Turn the Rotary Channel Selector to select the desired channel.



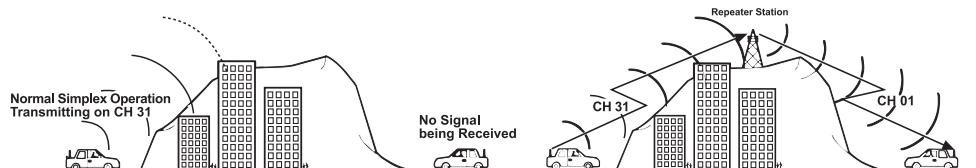
Transmitting

Select the desired channel. Press the Microphone's PTT button, hold it approx. 7cm from your mouth and speak normally into the microphone. The TX LED will light. Release the PPT button to end the transmission and listen for a reply.



Using Repeater Channels

UHF Repeaters are used to retransmit or replay your signal. Repeaters will extend the range of your radio and overcome the shielding effect caused by solid obstructions. In normal Simplex operation, your radio transmits on one particular frequency and receives on that same frequency. If there is a barrier that partially blocks your transmitted signal, the probability of another radio receiving the signal is very slim. Hills, tall buildings, metallic structures,...etc. tend to act as a screen between radios.



Standard Operation without the aid of a Repeater Station

Operation with the aid of Repeater Station (Duplex)

The Signal coming from your radio is received by the Repeater Station and then retransmitted at the same time on another channel. This operation is called 'Duplexing'.

For example,

CH01 on Duplex Mode will receive on CH01 but Transmit on CH31

CH02 on Duplex Mode will receive on CH02 but transmit on CH32 etc...

If you transmit on CH01 Duplex mode, you are actually transmitting on CH31, the repeater station down-converts your signal and retransmits on CH01.

Operation

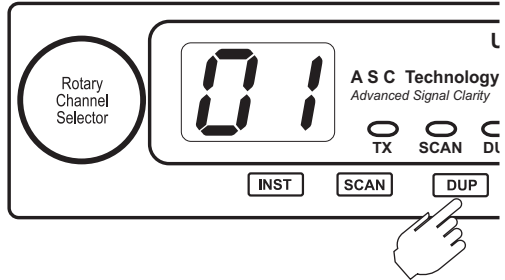
Operating the UH-012 in Duplex Mode

For this example we are adopting CH01 as the channel being used in your area for repeater use.

Press **[DUP]** to switch Duplex On. The DUP LED is turned on.

If Duplex is not required press **[DUP]** again to switch Duplex off.

Only channels 01-08 are available for Duplex



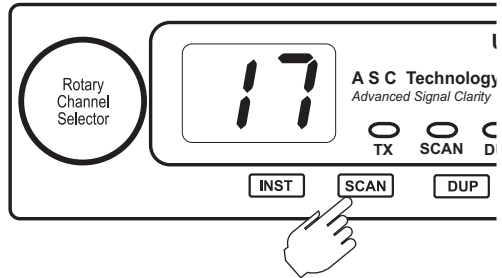
Check with your local Retailer for information on available Repeaters

Scanning (open scan)

The UH-012 has a scanning feature that allows you to search for active channels automatically.

Press **[SCAN]** and scanning starts.

The SCAN LED is turned on.

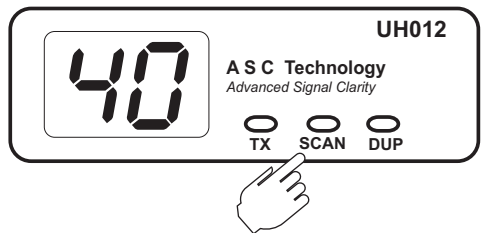


Open Scan (OS) Mode

Allows continuous scanning of all channels in ascending order. If an active channel is found, scanning will stop on that channel.

If the received signal ceases, the unit will wait 3 seconds for the signal to return, otherwise scanning resumes.

To deactivate SCAN, press **[SCAN]** or the PTT button on the microphone.



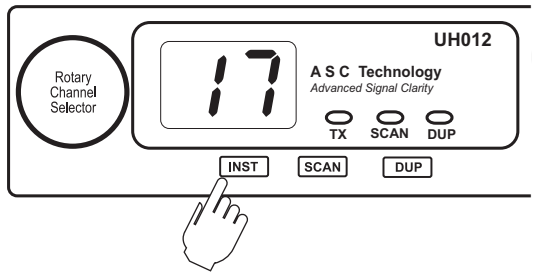
If SCAN is deactivated while on an active channel, the UH-012 will stay on that active channel. If no channels are active, the UH-012 will reinstate the starting channel.

Operation

Programming the Instant Priority Channel

Turn the Rotary Channel Selector to select the Priority Channel you prefer.

Press and hold **INST** for 2 seconds to store the new setting.



Recalling the Instant Channel

Momentarily press **INST** at any time to return to the Instant Channel.

Maintenance

Preventive Maintenance: The following system checks should be made every six to twelve months:

- Check the Standing Wave Ratio(SWR)
- Inspect the tightness of all electrical connections.
- Inspect the antenna coaxial cable for wear or breaks on the shielding
- Inspect the tightness of all screws and other mounting hardware.

Troubleshooting: Should the unit malfunction or perform poorly, follow these procedures;

If the transceiver is completely inoperative...

- Check the power cord and fuse.

If there is trouble with receiving...

- Check the VOLUME control setting. Be sure the SQUELCH is adjusted properly. Possibly the radio is over squelched.

If there is trouble with transmitting...

- Check that the transmission line (coaxial cable) is securely connected to the ANTENNA connector.
- Check that the antenna is fully extended for proper operation.
- Check that all transmission line (coaxial cable) connections are secure and free of corrosion.

Memory Backup: A built-in capacitor protects the channels stored in the UH012 memory after the DC power cable is disconnected.

Frequency Lists

FM UHF - CB Frequency List - Australia & New Zealand

CH No.	Simplex Mode Transmit / Receive Frequency (MHz)	Duplex Mode Transmit Frequency (MHz)	CH No.	Simplex Mode Transmit / Receive Frequency (MHz)
01	476.425	477.175 CH31	21	476.925
02	476.450	477.200 CH32	22	476.950
03	476.475	477.225 CH33	23	476.975
04	476.500	477.250 CH34	24	477.000
05	476.525	477.275 CH35	25	477.025
06	476.550	477.300 CH36	26	477.050
07	476.575	477.325 CH37	27	477.075
08	476.600	477.350 CH38	28	477.100
09	476.625		29	477.125
10	476.650		30	477.150
11	476.675		31	477.175
12	476.700		32	477.200
13	476.725		33	477.225
14	476.750		34	477.250
15	476.775		35	477.275
16	476.800		36	477.300
17	476.825		37	477.325
18	476.850		38	477.350
19	476.875		39	477.375
20	476.900		40	477.400

NOTE: Channel 05 and 35 are Emergency Channels and channel 11 is a Calling Channel.

Warranty

ONE YEAR LIMITED WARRANTY

IMPORTANT: Evidence of the original purchase is required for warranty service.

WARRANTOR: Uniden New Zealand Limited. Uniden Australia PTY Ltd. ACD 001 865 498

ELEMENTS OF WARRANTY: Uniden warrants to the original retail owner for the duration of this warranty its UH-012 hereinafter referred to as the 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 retail owner only, is only valid in the original sale. This warranty will be deemed invalid if the Product is: (A) Damaged or not maintained as reasonable and necessary, (B) Modified, altered or used as part of any conversion kits subassemblies, or any configurations not sold by Uniden, (C) Improperly installed, (D) Repaired by someone other than an Authorised Uniden Repair Agent for a defect or malfunction covered by this warranty, (E) Used in conjunction with any equipment or parts or as a part of a system not manufactured by Uniden, (F) Where the Serial No. label of the Product has been removed or damaged beyond recognition.

PARTS COVERED: This warranty covers for one (1) year, the UH012 transceiver only. All accessories (Mounting bracket, Microphone etc.) are covered for 90 days only.

STATEMENT OF REMEDY: In the event that the Product does not conform to this warranty at any time while this warranty is in effect, the warrantor, at its discretion, will repair the defect or replace the Product and return it to you without charge for parts and service. **THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. THIS GUARANTEE IS IN ADDITION TO AND DOES NOT IN ANY WAY AFFECT YOUR RIGHTS UNDER THE CONSUMER ACT.**

WARRANTY CARD: If a Warranty Card has been included with this Product, please complete and return it to us within 14 days of purchase. Our name and the serial number of the Product will then be registered in our database. This will help us process your claim with greater speed and efficiency should you require warranty service.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: In the event that the Product does not conform to this warranty, the Product should be shipped or delivered, freight prepaid, with evidence of original purchase (e.g. a copy of the sales docket) to the warrantor at:

UNIDEN AUSTRALIA PTY LIMITED SERVICE DIVISION

345 Princes Highway,
Rockdale, NSW 2216,
AUSTRALIA
Ph: (02) 9599-3100
Fax: (02) 9599-3278
Toll Free: 1300 36 895

www.uniden.com.au

UNIDEN NEW ZEALAND LIMITED SERVICE DIVISION

150 Harris Road,
East Tamaki,
Auckland,
NEW ZEALAND
Ph: (09) 273 8383
Fax: 274 0009
Toll Free: 0800 486 4336

www.uniden.co.nz

Specifications

General

Channels	: 40
Microphone	: Electret
Speaker	: 8 ohm, 3W
Antenna Connector	: M-Type
Jacks & Connectors	: EXT SP 3.5mm
Operating Temperature	: 0° to + 55° C
Power Requirements	: 13.8 VDC Nominal
Antenna Impedance	: 50 ohms

Transmitter (FM)

Frequency Tolerance at 25°C (5 minutes after turning on)	: +/- .5 kHz
carrier Power	: 5W (max)
Spurious Emission	: -36 dBm
Current Drain	: 1.60 Amps
Modulation Frequency Response (1 kHz, 0 dB reference at 1 kHz deviation)	
Lower at 500 Hz	: -5.0 dB
Upper at 2.0 kHz	: + 4.0 dB
Microphone Sensitivity for 3 kHz Deviation	: 7mV
Maximum Deviation at 1 kHz	: +/- 4 kHz

Receiver

Sensitivity at 12dB SINAD	: -120 dBm or better
Overall Audio Fidelity (1 KHz, 0 dB reference)	
Lower at 500 Hz	: +4.0 dB
Upper at 2 kHz	: -5.5 dB
Adjacent Channel Selectivity (+/-25 kHz)	: 64dB
Max. Audio Output Power	: 3W
Audio Output Power at 10% HD	: 3W
Hum and Noise Ratio at Input 1 mV	: 45 dB
Squelch Sensitivity at Threshold	: -126 dBm
Squelch Sensitivity at Tight	: -108 dBm
Image Rejection Ratio (2nd)	: 60 dB
IF Rejection Ratio (2nd)	: 100dB
Oscillator Dropout Voltage	: 9V
Current Drain at NO Signal	: 250 mA
Current Drain at Max. Output	: 600 mA

Technical Support and Service

Should you find it desirable or necessary to service your UH012 we suggest you contact the Uniden Dealer where your purchase was made. Your dealer will be able to assist you with the complete service information.

If you require service, that is within the terms of your warranty, you should present a copy of your receipt to your dealer to authenticate your claim.

If you find it inconvenient to obtain service assistance from a dealer, please pack your radio in a suitable container that will provide adequate protection. Enclose a note describing the problem and a copy of your receipt and send the radio, transportation prepaid, to:

Uniden Australia Pty Limited
Customer Service Division
345 Princes Highway
Rockdale NSW 2216
AUSTRALIA

Ph. (02) 9599-3100
Fax (02) 9599-3278
Toll Free 1300 366 895

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