

Discovery
EXPEDITION™

SELF-POWERED AM / FM / SW /
NOAA WEATHER RADIO

D105X



INSTRUCTION MANUAL

IMPORTANT SAFETY INSTRUCTIONS

When used in the directed manner, this unit has been designed and manufactured to ensure your personal safety. However, improper use can result in potential electrical shock or fire hazards. Please read all safety and operating instructions carefully before installation and use, and keep these instructions handy for future reference. Take special note of all warnings listed in these instructions and on the unit.

1. Read these instructions – All the safety and operating instructions should be read before the appliance is operated.
2. Keep these instructions – The safety and operating instructions should be kept for future reference.
3. Heed all warnings – All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow all instructions – All operation and use instructions should be followed.
5. Do not use this apparatus near water – The appliance should not be used near water; for example, near a bath tub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.
6. Clean only with dry cloth – The appliance should be cleaned only as recommended by the manufacturer.
7. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
8. Only use attachments / accessories specified by the manufacturer.
9. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
10. This appliance shall not be exposed to dripping or splashing water and that no object filled with liquids such as vases shall be placed on the apparatus.
11. Power Sources – The appliance should be connected to a

- power supply only of the type described in the operating instructions or as marked on the appliance. Do not overload wall outlet.
12. Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
 13. Do not attempt to dismantle, open or repair this product yourself. If a fault occurs, seek advice from your local qualified service technician or contact the distributor via the telephone number at the back of this instruction manual.
 14. Caution marking and nameplate are located on bottom of product

COMPLIANCE WITH FCC REGULATIONS

This equipment has been tested and found to comply with the limits for a Class B digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio technician for help.

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.

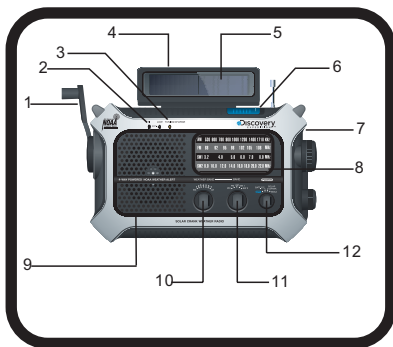
WARNING:

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

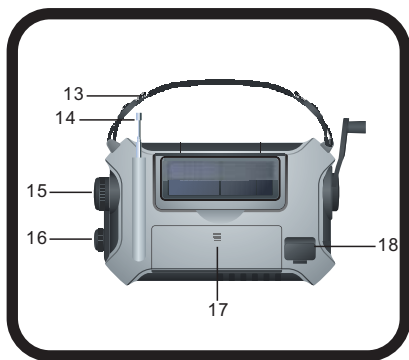
SPECIAL NOTE

To prevent any scratching or damage to your furniture, we strongly recommend that you purchase small self-adhesive felt pads, available at hardware stores and home improvement centers everywhere, and apply these pads to the bottom of the unit before you place the product on any fine wooden furniture.

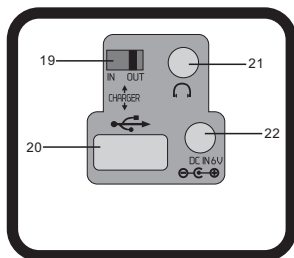
LOCATION OF CONTROLS



1. Hand Crank
2. Battery Level Indicator
3. Tuning/Charging Indicator
4. Reading Lamp
5. Solar Panel
6. Reading Lamp/Flash/SOS Light Selector
7. Flashlight
8. Dial Pointer
9. Speaker
10. Weather Channel Selector
11. WX/FM/AM/SW1/SW2 Band Selector
12. Power Source Selector



- 13. Carrying Strap
- 14. Telescopic Antenna
- 15. Tuning Knob
- 16. Volume Knob
- 17. Battery Compartment
- 18. Connector Rubber Dust Cover



- 19. Charger IN/OUT Switch
- 20. USB Jack
- 21. Earbuds Jack
- 22. DC IN Jack

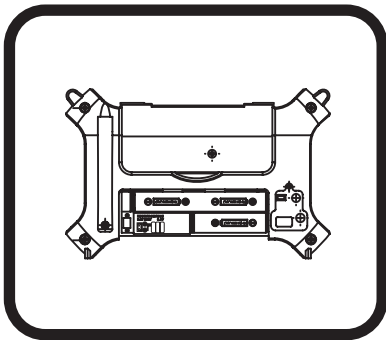
POWER SOURCE

This radio is designed to operate on multiple power sources.

A) FIVE WAYS TO POWER THE UNIT

1) “DYNAMO” POWER OPERATION

1. A DC 3.6V rechargeable battery is included with D105X. When first time using the unit, open the battery compartment and plug the rechargeable battery into the socket as shown.



2. Close the Battery Door.
3. Set the Power Source Selector to the “OFF” position.
4. Lift the Crank Handle outward until it is fully extended.
Rotate the Crank, the TUNING/CHARGING Indicator will light.
5. Set the Power Source Selector to SOLAR/CRANK position to turn on the unit for operation.



Ni-MH Battery Safety Instructions

Do not burn or bury batteries. Do not puncture or crush. Do not disassemble.

Recycle Ni-MH batteries. Do not dispose of in the trash.

If the electrolyte in the cells should get on your skin, thoroughly wash with soap and water. If in the eyes, rinse thoroughly with cool water. Immediately seek medical attention.

Use only chargers rated for Ni-MH cells. Be sure the charger's voltage and current settings are correct for the battery pack being charged. Charge batteries on a fireproof surface away from flammable items or liquids.

Batteries should NEVER be left unattended while charging. Only adults should charge the batteries.

Follow the manufacturer's instructions for charging the product and do not charge longer than recommended. Unplug the charger when the battery is charged.



Recycle Rechargeable Batteries

Recycle your old rechargeable batteries at one of the many collection sites in the U.S. and Canada. To find the site nearest you, visit www.call2recycle.org or call toll-free 1-877-2-RECYCLE.

2) Battery Operation

- 1 . Open the Battery Door on the back of the radio.

2. Following the polarity diagram shown in the battery compartment, insert 3 'AA' (UM-3) batteries (Not included) and close the battery door.
3. Open the Connector Rubber Dust Cover, set the Charger IN/OUT Switch to IN position.
4. When batteries were installed, the power of the build-in rechargeable battery pack will be cut off after setting the Power Source Selector to "BATT./DC" (DRY CELL Battery/DC Power) position.

IMPORTANT:

Be sure that the batteries are installed correctly. Wrong polarity may damage the unit.

WARNING:

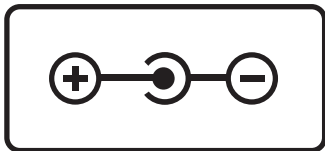
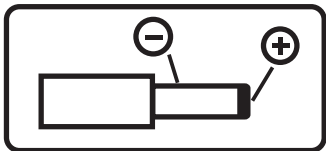
- Be sure that the batteries are installed correctly. Wrong polarity may damage the unit.
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries.
- Only batteries of the same or equivalent type as recommend are to be used.
- If the unit is not to be used for an extended period of time, remove the battery. Any old or leaking battery can cause damage to the unit and may void the warranty.
- Do not dispose of batteries in fire, batteries may explode or leak.
- Do not try to recharge batteries not intended to be recharged; they can overheat, rupture and leak(Follow battery manufacturer's directions).

3)SOLAR POWER

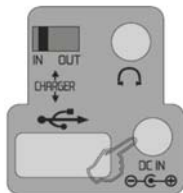
1. Set the Power Source Selector to "SOLAR/CRANK" position.
2. Put the unit in the sunlight, make the solar panel of the unit is facing to the sun. If the sunlight is strong enough, the Battery Level Indicator "HI" will be on, the unit can work normally.

4) AC ADAPTOR OPERATION

You can also power the unit by using an AC Adapter (not included). Please make sure to use an AC adapter with a rating of 6V DC, 250 mA with the following center positive (+) polarity



1. If you are using a universal adapter with an output polarity switch or polarized plugs, be sure to set the center plug polarity to "+".
2. Open the Connector Rubber Dust Cover on the back of the unit, set the Charger IN/OUT Switch to "IN" position.
3. Firmly and securely insert the DC plug of the adapter into the DC IN Jack on the unit, the batteries are automatically disconnected. Set the Power Source Selector to "BATT./DC" position.



Note: The CHARGE Indicator will light once the AC Adaptor is plugged into the AC outlet regardless of the setting of the Power Source Selector except unit is in weather band and Power Source Selector either in BATT./DC or SOLAR/CRANK position.

5) Computer USB Power

The unit has a standard USB jack on the back of the unit under the Connector Rubber Dust Cover.

1. Use a standard USB cable (not included), connect your computer's USB port to the USB connector of the unit.
2. Set the Charging IN/OUT Switch on the back of the unit to "IN" position.
3. Turn on your computer and set the Power Source Selector to "SOLAR/CRANK" position.

B) POWER INDICATORS

When the rechargeable battery power is high, the BATT. HI green LED on the front of the unit is on.

When the battery power goes low, the BATT. LOW red LED will be on, you are recommended to charge the rechargeable batteries.

LISTEN TO RADIO

1. Set the Power Source Selector to "BATT./DC." or "SOLAR/CRANK." position to turn the unit on.
2. Set the Band Switch to select AM/FM/SW1/SW2 band.
3. Rotate the tuning Knob to select the desired radio station, the Red tuning LED will light if the station is properly tuned and signal is strong enough.
4. Adjust Volume Knob to obtain the desired sound level.
5. To tune the radio off, set the Power Source Selector to "OFF" position.

HINTS FOR BEST RECEPTION:

- The AM antenna is located inside the cabinet of the unit. If AM reception is weak, change the position of unit until the internal antenna picks up the strongest signal.

- To insure maximum SW1/SW2/FM tuner reception, the Telescopic Antenna should be fully extended and rotate the unit to obtain the best possible station reception.

LISTEN TO WEATHER CHANNEL

1) Weather Band

1. Set the Power Source Selector to "BATT./DC" or "SOLAR/CRANK" position to turn the unit on.
2. Set the Band Switch to "WX" position.
3. Set the Weather Channel Switch to select your local weather broadcasting.
4. Adjust Volume Knob to obtain the desired sound level.
5. To tune the radio off, set the Power Source Selector to "OFF" position.

Weather Band Channel Frequency Table

CHANNEL	FREQUENCY(MHZ)
CH1	162.400
CH2	162.425
CH3	162.450
CH4	162.475
CH5	162.500
CH6	162.525
CH7	162.550

Note: with regard to the NOAA Weather Band: You need to identify which band receives your local weather band report. When you change locations either to another city or state, you may need to choose a different band to get the local report in that location.

HINTS FOR BEST RECEPTION:

- To insure maximum weather band reception, the Telescopic Antenna should be fully extended and rotate the unit to obtain the best possible station reception.

2) RECEIVING EMERGENCY WEATHER ALERT

NOAAAlert allows you to set the unit so it is in a standby mode and will turn the radio on automatically if there is a severe weather emergency in your area. To receive emergency weather alert warnings, turn the unit on, tune to the strongest local NOAA channel, adjust the volume control to a level that you will hear when an alert is received. Set the BAND Switch to the WEATHER ALERT position. The radio remains silent until an “alert” broadcast occurs.

1. Set the Band Selector to “WX” position and turn the weather band to your local weather station.
2. Set the Power Source Selector to “NOAA” position and the unit will go on automatically after 3 times Beeper alarm when there is an alert from the National Weather Service.
3. Set the Power Source Selector to “OFF” position to turn off the NOAAAlert. It is recommended to use the AC adaptor to power the radio when you turn on the NOAA Alert.

Note: 1. NOAA Weather band is a service broadcast of the U.S. Government and available in all 50 states, Puerto Rico and the U.S. Virgin Islands.

2. The NOAA Weather Service broadcasts a test alert every Wednesday between 11 am and Noon. To receive the broadcasts, the radio must be within the range of the local broadcast site, 10 - 40 miles, depending on terrain and obstructions.

To learn more:

Click on <http://www.nws.noaa.gov/nwr/> for NOAA (National Oceanic & Atmospheric Administration) and <http://www.ec.gc.ca/> for Environment Canada.

CHARGING THE INTERNAL BATTERY

1. DYNAMO CHARGING

1. Install Ni-MH batteries correctly.
2. Set the Power Source Selector to "OFF" position.
3. Turning the hand crank, the built-in dynamo will start to generate electricity. The unit will charge the Ni-MH battery automatically.
4. While charging, the Charging green LED in front of the unit will be on.
The brightness of LED lights shows the charging intensity of the batter power

NOTE: While the intensity of the battery power is limited, when the battery level indicator goes RED, the rechargeable Ni-MH batteries are low, you can turn the hand crank to generate electricity for emergency.

2. COMPUTER USB CHARGING

1. Install the Ni-MH batteries correctly.
2. Set the Power Source Selector to "OFF" position.
3. Open the Connector Rubber Dust Cover, set the Charger Switch to IN position.
4. Use a standard USB to USB cable (not included), plug one end with USB into the computer USB port. Plug the other end into USB jack of the unit. It will start charge the Ni-MH battery automatically when your computer is ON.
5. While charging, the Charging green LED in front of the unit will be on.

NOTE: Before the first use, we recommend to charge the Ni-MH batteries for 4 hours the maximum. Please do not charge the battery longer than recommendation as it will shorten the battery life.

3. AC ADAPTOR CHARGING

1. Plug the AC adaptor into a household AC outlet.
2. Set the Power Source Selector to "OFF" position.
3. Open the Connector Rubber Dust Cover, set the Charger switch to "IN" position.

4. Connect DC plug of the AC adaptor to the DC IN jack on the back of the unit. It will start charge the Ni-MH battery automatically.
5. While charging, the Charging green LED in front of the unit will be on.

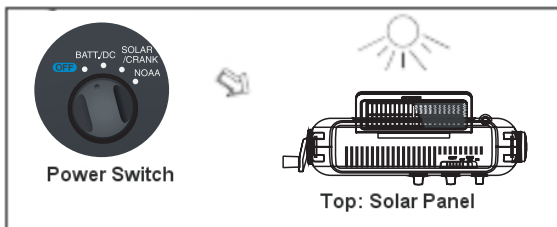
NOTE: 1. Before the first use, we recommend to charge the Ni-MH batteries for 4 hours the maximum. Please do not charge the battery longer than recommendation as it will shorten the battery life.

2. Unplug the adaptor from the radio when not in use to avoid overcharging of the rechargeable batteries.

4. SOLAR CHARGING

The solar panel on the back of the unit can rotate a full 180 degrees to let you angle it for optimal charging.

1. Set the Power Source Selector to "OFF" position.
2. Put the unit in the sunlight , rotate the panel to make sure the solar panel of the unit is irradiated by the sunlight. The unit will charge the rechargeable battery automatically.



- NOTE: 1、** The unit will also charge from indoor light and lamps but at a slower rate.
- 2、 Battery charging LED will not light in solar charging mode.

CHARGING THE EXTERNAL DEVICE

This unit has a USB which can charge your Cell phone or MP3 player if they have a built in Mini USB port to accept external charging power.

NOTE: Because of large variety of cell phones and different circuitry, not every cell phone or MP3 device with Mini USB can be charged in this way. Refer to your cell phone or MP3 player user manual before you charge them in this way.

1. Open the Connector Rubber Dust Cover.
2. Use a USB to Mini USB cable(not included) to connect the unit and your external device which has a Mini USB port.
3. Plug the end with USB to USB Jack of the unit, plug the other end with Mini USB to Mini USB port of your external device.
4. Set the Charger IN/OUT Switch to "OUT" position.
5. Set the Power Source Selector to "OFF" Position.
6. Follow below procedures to charge your external device.

Dynamo Charging

–Turn the hand crank to start charging your external device.

Note: It is recommended you charge your external device when its battery goes low. It is more difficult to crank charge an external device when its rechargeable batteries are completely exhausted.

CHARGING/TUNING LED INDICATOR

Battery Charging Only

- LED shows Green.

Battery Charging and Using the Radio

-LED shows Orange.

Tuning the Radio

-LED shows Red.

NOAAAlert mode

-LED shows Green steadily about 18 seconds at first when switch on, the unit is in normal power mode.

-LED flashing about every 6 seconds, the unit is in power saving mode.

USING THE FLASHLIGHT

1. Using the reading lamp

On bottom side of the solar panel is a 5-LED Reading Lamp. The lamp can be rotated 180 degrees to let you tilt it to one of many desired positions.

Set the Reading Lamp/Flash/SOS Light Selector on the top of the unit to Position to turn on the lamp.

2. Set the Light Selector to OFF position to turn off the lamp.

2. Using the flashlight

The LED flashlight is built into the side of the unit above the tuning knob. To use the flashlight, set the Light Selector to "ON" position. To turn off the flashlight, set the Lights Selector to OFF position.

3. Using the SOS light

In an emergency, you can turn on the flashing red SOS light by setting the Light Selector to "FLASH" position. To turn it off, set the Light Selector to OFF position.



USE EARBUDS (NOT INCLUDED)

Inserting the plug of your earbuds into the earbuds jack will enable you to listen in private. When using earbuds, the speakers will be disconnected.

Read this Important Information before Using Your Earbuds

- 1.) Avoid extended play at very high volume as it may impair your hearing.
- 2.) If you experience ringing in your ears, reduce the volume or shut off the unit.
- 3.) Keep the volume at a reasonable level even if your headset is an open-air type designed to allow you to hear outside sounds. Please note that excessively high volume may still block outside sounds.

CARE AND MAINTENANCE

1. Do not subject the unit to excessive force, shock, dust or extreme temperature.
2. Do not tamper the internal components of the unit.
3. Clean your unit with a damp (never wet) cloth. Solvent or detergent should never be used.
4. Avoid leaving your unit in direct sunlight or in hot, humid or dusty places.
5. Keep your unit away from heating appliances and sources of electrical noise such as fluorescent lamps or motors.

CAUTION: Never allow any water or other liquids to get inside the unit while cleaning.

TROUBLESHOOTING GUIDE

If you experience difficulties in the use of this unit please check the following or call 1-800-777-5331 for Customer Service.

Symptom	Possible Cause	Solution
No/low sound when power on the radio	VOLUME Control is set to minimum. Station has not been tuned properly. FM reception is weak. AM reception is weak. Unit in Weather Alert Mode.	Adjust the VOLUME control.Tune the station properly.Extend and rotate the FM antenna. Relocate the position of the unit. Select AM, FM or WB as desired.
Power is not on	The built-in rechargeable battery pack is low The batteries are exhausted.	Recharge the built-in rechargeable battery pack. Replace all the batteries.

SPECIFICATION

Power requirement:

DC Input:

3 X AA (UM-3) Batteries or

Built in DC 3.6V, 600mAH Ni-MH rechargeable battery or

DC 6V, 250mA AC adaptor or

DC 5V Computer USB Power

Frequency Range

Radio Band

FM 88 ~ 108 MHz

AM 530 - 1710 KHz

SW1 3.2 – 8.0 MHz

SW2 9.0 – 22 MHz

WX CH1 – 7



LIMITED WARRANTY AND SERVICE

SPECTRA MERCHANDISING INTERNATIONAL, INC. warrants this unit to be free from defective materials or factory workmanship and will replace or repair this unit or any part thereof, except batteries, if it proves to be defective in normal use or service within 90 days from date of original purchase. Our obligation under this warranty is the repair or replacement of the defective unit or any part thereof, except batteries, when it is returned, transportation pre-paid, to SPECTRA. This warranty will be considered void if unit is tampered with, improperly serviced, or subject to misuse, negligence or accidental damage. There are no other express warranties other than those stated herein.

This warranty gives you specific legal rights, and you may also have other rights which varies from state to state. TO OBTAIN SERVICE please pack the unit carefully and send it prepaid by secured parcel post or UPS to SPECTRA at the address shown below. It would be helpful if you include a note explaining how the unit is defective.

IF THE UNIT IS RETURNED WITHIN THE WARRANTY PERIOD shown above, please include a proof of purchase (dated cash register receipt) so that we may establish your eligibility for warranty service and repair of the unit without cost.

IF THE UNIT IS OUTSIDE THE WARRANTY PERIOD, please include a check for \$40.00 to cover the cost of repair, handling and return postage.

SPECTRA MERCHANDISING INTERNATIONAL, INC.
4230 North Normandy Avenue,
Chicago, Illinois 60634, USA.
773-202-8408 or 1-800-777-5331

For quicker, easier product registration, you can also register your product warranty on-line:

@www.spectraintl.com/warranty.asp

The logo features a stylized globe icon on the left, composed of curved lines representing latitude and longitude. To the right of the globe, the word "Discovery" is written in a large, bold, sans-serif font. Below "Discovery", the word "EXPEDITION" is written in a smaller, all-caps, spaced-out sans-serif font. A small trademark symbol (TM) is located at the end of the word "EXPEDITION".

Discovery

EXPEDITION™

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