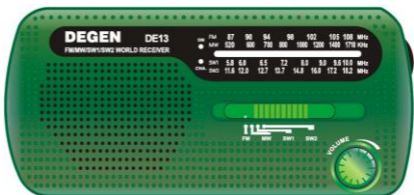


DEGEN

DE13

FM/MW/SW1, 2 WORLD RECEIVER WITH
FLASHLIGHT, CRANKER DYNAMO & SOLAR
POWER SUPPLY

Operation Manual



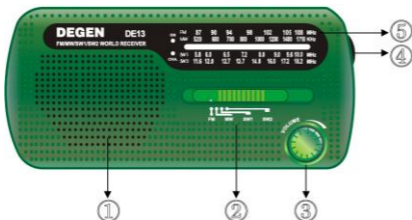
PATENT NO.: 200830154748.2

KEY FEATURES

- FM/MW/SW1,2 World Receiver
 - FM: 87 - 108 MHz
 - MW: 520 - 1710 KHz
 - SW1: 5.80-10.00 MHz
 - SW2: 11.6- 18.2 MHz
- Cranking Dynamo & Solar Power Supply
- Red LED Light (Flashes) & Alarm Function
- Flashlight with 3 White LED Lights
- Cell Phone, MP3 & MP4 Charging Jack (Standard USB Jack)
- External Adaptor Jack (Mini USB 5 Pin Jack)
- Built-in Speaker
- Earphone Jack (D3.5mm)
- Power Sources: Ni-MH Battery, 3 x AAA Alkaline Batteries or Solar Power
- Charged by: Cranking Dynamo, External Adaptor, Computer or Solar Power
- Radio Size: 133 x 62 x 47 mm
- Accessories: Ni-MH Battery, Cell Phone Charging Cable & Operation Manual

CONTROLS LOCATION

FRONT

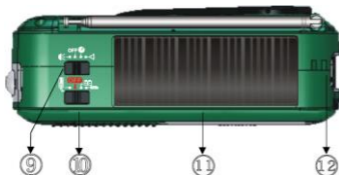


RIGHT SIDE

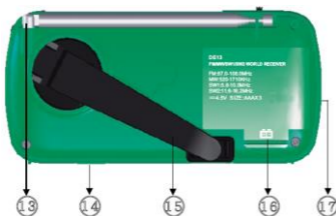
1. Speaker
2. Band Switch
3. Volume Knob
4. Tuning Knob
5. Frequency Dial Scale
6. Phone Charger Jack
7. Earphone Jack
8. DC IN Jack



TOP



REAR




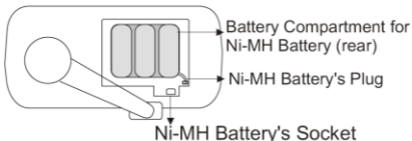
- 9. Multifunctional Switch
- 10. Power Switch
- 11. Solar Panel
- 12. Strap Hole
- 13. Telescopic Antenna
- 14. Battery Compartment
(AAA Batteries)

- 15. Hand Crank
- 16. Battery Compartment
(Ni-MH Battery)
- 17. Flashlight


POWER SUPPLY

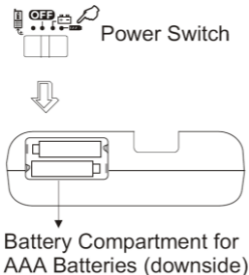
Rechargeable Ni-MH battery

1. The battery compartment is in the rear of the unit.
2. The rechargeable Ni-MH battery has been disconnected for transportation purposes.
3. Before using the unit, please open the battery compartment and connect the rechargeable battery's plug into its socket according to the correct direction. Then set the <Power Switch> to "  " position.




AAA batteries (alkaline or rechargeable)

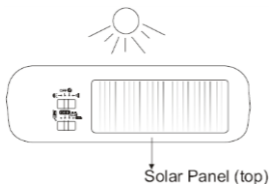
1. The battery compartment is in the downside of the unit.
2. After installing the batteries, set the <Power Switch> to "  " position.





NOTE: The Ni-MH battery and AAA batteries (alkaline or rechargeable batteries) can supply the power separately.

SOLAR POWER



1. Set the <Power Switch> to "  " position.
2. Put the unit in the sunlight, make the solar panel of the unit is irradiated directly by the sunlight.
3. If the sunlight is enough strong, the power light ("ON") in the front of the unit will be on.

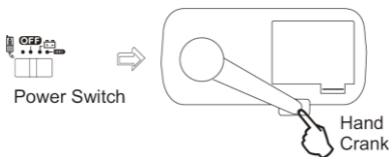


SOLAR CHARGING (NI-MH battery)



1. Set the <Power Switch> to " **OFF** ", "  " or "  " position.
2. Put the unit in the sunlight, make the solar panel of the unit is irradiated directly by the sunlight. The unit will charge the Ni-MH battery automatically.
3. While charging, the "CHA." light in the front of the unit will be on.

DYNAMO CHARGING (NI-MH battery)

1. Set the <Power Switch> to " **OFF** ", "  " or "  " position.
2. Turning the hand crank, the built-in dynamo will start to generate electricity. The unit will charge the Ni-MH battery automatically.
3. While charging, the "CHA." light in the front of the unit will be on. The lightness of the charging light shows the charging intensity of the battery power.



ADAPTOR CHARGING (NI-MH battery)

1. Set the <Power Switch> to " **OFF** ", "  " or "  " position.
2. Plug one port of the matched adaptor into the AC outlet, plug the other port into the <DC IN Jack> of the unit. The unit will charge the Ni-MH battery automatically.
3. While charging, the "CHA." light in the front of the



unit will be on.



NOTE:

1. The longest charging time is 8 hours.
2. You can buy a matched adaptor from the market which is with 5 pin jack, 5V output voltage and 300mA output current or above.


USB COMPUTER CHARGING

1. Set the <Power Switch> to " **OFF** ", "  " or "  " position.
2. Plug one port of the matched USB cable into the USB jack of the computer, plug the other port into the <DC IN Jack> of the unit. The unit will charge the Ni-MH battery automatically.
3. While charging, the "CHA." light in the front of the unit will be on.



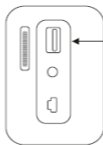
NOTE: The longest charging time is 8 hours.

CHARGING CELL PHONE

1. Use the cell phone tip which is matched with your cell phone, to connect the supplied Cell Phone Charging Cable and your cell phone.
2. Plug the other port of the supplied Cell Phone Charging Cable into the <PHONE CHARGER Jack> of the unit.
3. Set the <Power Switch> to "  " position.



Power Switch




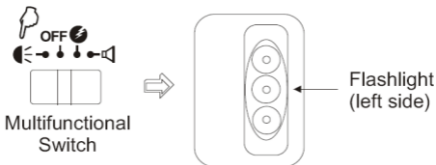
PHONE
CHARGER Jack

4. Turn the hand crank to charge the cell phone.


NOTE: The unit might not charge some of the cell phone, which has the especial requirements about the voltage and current.

USING FLASHLIGHT


Set the <Multifunctional Switch> to "  " or "OFF" position to turn on / off the flashlight.



USING ALERT LIGHT

Set the <Multifunctional Switch> to "  " position, the middle red flashlight will blink. Set the <Multifunctional Switch> to "OFF" position, the alert light will be off.

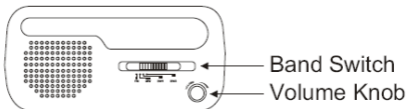
USING SIREN

Set the <Multifunctional Switch> to "  " or "OFF" position, the siren will be on or off.

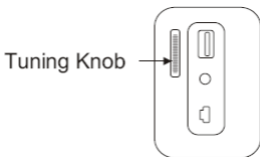
NOTE: You can use the FLASHLIGHT, ALERT LIGHT and SIREN in any power mode.

LISTENING TO RADIO

1. Select the power mode.
2. Select your desired band by switching the <Band Switch> to either "FM", "MW", "SW1" or "SW2" position.
3. Adjust the volume by rotating the <Volume Knob> to your desired level



4. Rotate the <Tuning Knob> to select your desired station.



Note:

1. While listening to the FM, SW1 and SW2 programs, please pull up the telescopic antenna all the way, rotate the unit and get close to the window to get the best reception.
2. While listening to the MW programs, please rotate the unit to get the best reception.

5. Turn off the unit: Set the <Power Switch> to "OFF" position.



Power Switch

SPECIFICATIONS

1. Frequency Range

FM: 87.0 - 108.0 MHz

MW: 520 - 1710 KHz

SW: 5.80 - 18.20 MHz

2. Noise Limit Sensitivity

FM $\leq 5 \mu V$

MW $\leq 2.5\text{mv/m}$

SW $\leq 50 \mu V$

3. Signal Selection $\geq 40\text{dB}$

4. Max. Output Power: About 100mW

5. Max. Volume Output Current:

About 120mA

6. Power Supply

Batteries: 3xAAA Size (3x1.5V)

DC: 5V

7. Speaker: D50mm

8. Earphones: D3.5mm

9. Dimensions: 133 * 62 * 47 mm

10. Weight: Approx 256g (inc. Ni-MH Battery)