

DE105**PLL FM STEREO/MW/SW WORLD RECEIVER****OPERATING INSTRUCTIONS**

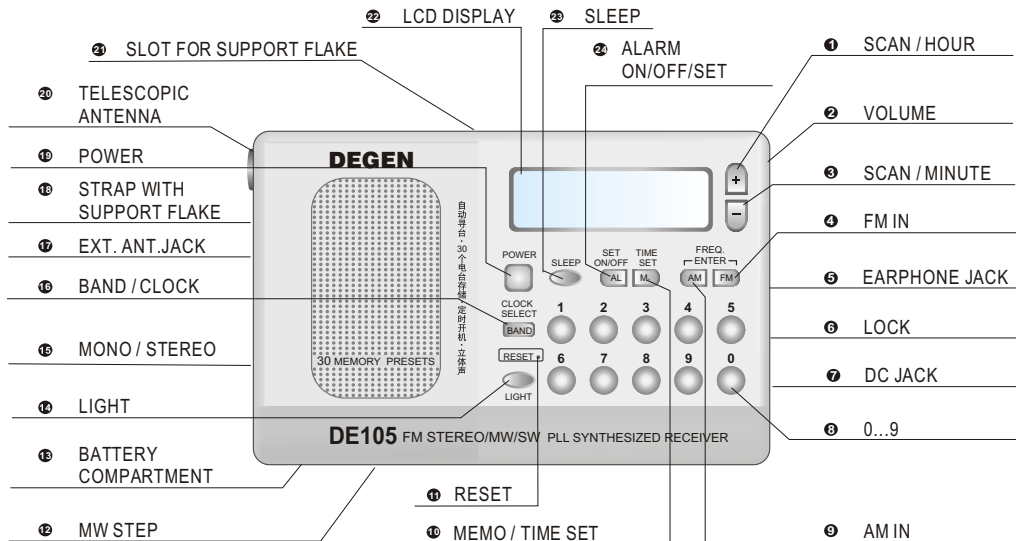
MW / SW / FM STEREO
 30 MEMORY PRESETS
 ALARM / SLEEP
 MANUAL TUNING / SEEK TUNING / PRESET/DIRECT ENTRY
 MONO / STEREO SELECTABLE
 LOCK SWITCH
 LIGHT INDICATOR
 STYLISH DESIGN
 AAx2 BATTERIES AND AC/DC OPERATION
 EXTERNAL ANTENNA JACK

Thank you for purchasing DE105, DEGEN PLLFM Stereo / MW / SW World Receiver! It will give you many hours of reliable service and listening pleasure. Before operating the receiver, please read this manual carefully and retain it for future reference.

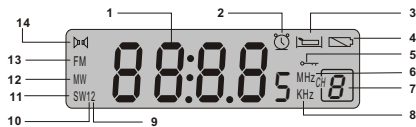
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LOCATION OF CONTROLS




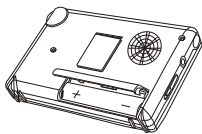
LCD IDENTIFICATION



- 1 Frequency / Time
- 2 Alarm
- 3 Sleep
- 4 Weak Power Indicator
- 5 Lock indicator
- 6 MHz
- 7 Memory No.
- 8 KHz
- 9 Clock 2
- 10 Clock 1
- 11 SW Band
- 12 MW Band
- 13 FM Band
- 14 FM Stereo Indicator

BATTERY OPERATION

- 1 Slide the battery lid.
- 2 Insert two AA batteries according to the polarity direction as follow

- 3 Snap down the lid of compartment.



- When the sound becomes weak and distorted, please reduce the volume or replace the batteries with new ones.
- Replace the batteries immediately to prevent memories losing after the unit turns off.

BATTERY REPLACEMENT

Turn off the unit, then replace the batteries with fresh ones within 3 minutes.

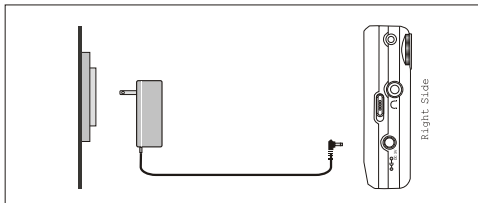
If replacement time lasts too long, memories will be lost and clock reset to 0: 00.





- ▶ Do not mix different types together (Alkaline, Carbon-Zinc, Nickel Cadmium etc.), or old batteries with new ones.
- ▶ When the unit is not being used for a long period of time, remove the batteries to avoid damage from battery leakage and corrosion.

- ▶ If battery leakage occurs, wipe the battery compartment with a soft cloth before inserting the new ones.

AC ADAPT OPERATION



- 1 Plug the adaptor into an AC power outlet.
- 2 Insert the adaptor's small connector plug into the DC JACK  marked  on the unit (on the right side of the unit).
- 3 Turn on the unit.




- ▶ If the AC adaptor is connected when regular batteries are installed, the unit automatically switches to the AC adaptor power and the batteries are not used.
- ▶ Make sure the polarity of the AC adaptor suits your unit before plugging it into the AC power outlet, the correct mark is as follows:



- ▶ External power supply can be chosen from 3V to 5V.


WEAK POWER INDICATOR

When power supply is weak, weak power indicator  flashes, meanwhile the unit works disorderly and the sound becomes distorted. If you want to continue listening, please reduce the voice or replace the batteries with new ones.




Even if the voice is low or in clock mode, weak power indicator still flashes, please replace the batteries with new ones immediately to avoid battery leakage.

LOCK FUNCTION

When the unit is in lock status, lock indicator  appears in the display. None of the buttons except LIGHT, MONO / ST and RESET will work.



Slide the LOCK switch  in the opposite direction of the arrow to unlock the controls.



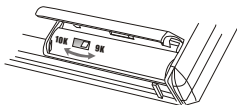
- ▶ Lock function prevents the unit from short, accidental button press.

- ▶ It is useful to prevent:
 - 1) Powering on accidentally which can cause battery wasted.
 - 2) Reception being broken off unexpectedly while listening.

MW STEP SWITCH

To meet your listening requirement in different countries, MW step switch is added.

Push MW step switch to 9K or 10K according to the following,



9K: China, Europe, Africa etc.

10K: USA, Canada etc.



- ▶ After changing MW step, press RESET to enable the setting.
- ▶ MW step is set in 9K position before using.

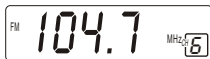
TURN ON / OFF THE UNIT

1. Power On / Off

3 Methods

Press POWER ON•OFF to turn on the unit manually, the unit will receive the last channel you ever heard.

POWER



After listening, press POWER ON•OFF to turn off the unit.

2. Alarm

ALARM CLOCK SETTING: refer to page 10.

Push ALARM ON/OFF , LCD in alarm set mode for 3 seconds, after then indicates in the display, alarm function is on and the unit will turn on automatically at the presetting time.



- Press POWER ON•OFF to turn off the unit. As you can see, still indicates in the display, timer function is still on. Alarm set is available only one time.
- To turn off alarm function, please refer to page 11.

3. Sleep




- 1 Press SLEEP to turn on the unit, default sleep time of 90 minutes indicates in the display.




- 2 While 90 indicates in the display, set the desired sleep time by pressing SLEEP circularly, sleep time is changeable from 10 to 90 minutes.

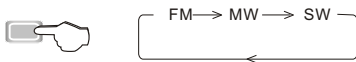


- 3 After adjusting, release all buttons for 4 seconds, the unit enters sleep mode and indicates in the display.

- When sleep time setting is over,  indicates in the display, sleep function on. The unit will shut off automatically after the adjusted sleep time.
- To quit from sleep mode but listening to the broadcast in normal mode, press SLEEP ,  in the display will disappear and sleep mode is cancel.
- To reset sleep time when listening, please turn off sleep function firstly, then reset sleep time as mentioned above.

BAND SELECTION

Press BAND button  repeatedly to select FM, MW, SW, the corresponding band indicator will show in the display.





TUNING INTO A STATION

1. Manual Tuning

4 Methods









Press SCAN button (+  / - ) to tune into a clear reception.



Manual tuning is more suitable for weak signal broadcast.

2. Seek Tuning

Keep SCAN button (+  / - ) pressed until frequency indicator changes, the unit starts to tune in to the stations automatically. When a station is tuned in, scanning stops and the tuned station is heard.

- If there is a station you wish to skip during scanning, press and hold SCAN button (+  or - ) to skip this station.
- Press SCAN (+  or - ) button while seek tuning, scanning will stop immediately.




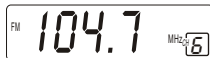
- ▶ Seek tuning is more suitable for strong signal broadcast, it may not stop if broadcast signals are weak.
- ▶ If tuning becomes slowly in a frequency range, try manual tuning to see if there are some weak stations.

3. Listening to Preset Stations

There are 30 memories, 10 each assigned to FM, MW, SW with preset number 0...9.

(Refer to page 10 for information on presetting stations.)

- 1 Press BAND  to select the desired band.










- 2 Press the preset number (0..9) to tune in to the preset station. The frequency and preset numbers show in the display.



4. Direct Frequency Entry

Direct frequency entry makes it extremely easy to tune into a station if you know its exact frequency

	1 Press BAND  to select the desired band.
	2 Press direct frequency entry button AM IN  if selecting MW or SW in step 1 or FM IN  when selecting FM, display is blank for you to enter the frequency for 10s.
	3 Enter the frequency numbers with 0...9.
	4 Press AM IN button or FM IN button again, the tuned station is heard.


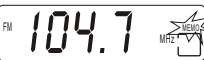

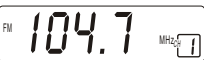



If entering frequency is not valid in the band frequency range, *Err* indicate in the display.

PRESETTING STATIONS

You can preset up to 10 stations under each preset number (0-9) on each band (FM, MW, SW):

FM: 0-9 + MW: 0-9 + SW: 0-9 = 30 Presets

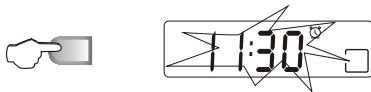
	1 Tune in to a desired station with manual tuning, seek tuning or direct entry.
	2 Press STORE button  , "MEMO" flashes in the display.
	3 Press a preset number  to memorize the station. The corresponding number will indicate in the display.
	4 Press STORE button again.





- ▶ If you cannot complete step 3 and step 4 while the indicator flashes, presetting is failed. You have to repeat from step 1.
- ▶ If a station is already stored, the new station with the same preset number replaces the old one.

ALARM OPERATION

1. Set Alarm Time



Press ALARM  into alarm setting mode, ALARM INDICATOR  will flash for about 3 seconds.



Press HOUR(+) or MINUTE(-) to adjust the alarm time when ALARM INDICATOR flashes.

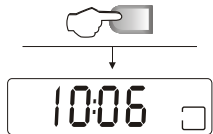
Release all buttons, the unit enter alarm mode after 3 seconds.

2. Turn Off Alarm Function

Press ALARM, alarm time flashes for 3 seconds.



Press ALARM again, alarm function is cancelled.



CLOCK OPERATION

You can present clock1 and clock2 in 24 hour format respectively.

1. Select Clock

Turn off the unit, press CLOCK SELECT circularly to select clock1 or clock2.

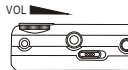


2. Set Clock Time

- 1 Select clock1 or clock2.
- 2 Press TIME SET, clock flashes in the display.
- 3 Press + to adjust hour and - to adjust minute.
- 4 Press TIME SET or release all buttons for 3 seconds to store the setting.


VOLUME CONTROL

Adjust volume using VOL, keep the volume at a moderate level.




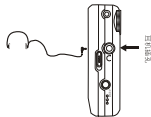
RESET



If the unit operates erratically, press RESET  to resume normal operation. Note that reset will erase all of the memories including clock setting.

LISTENING WITH EARPHONES


When listening to stereo reception, normally use earphones and set MONO / STEREO  to STEREO. Speaker has MONO effect only.



MONO / STEREO

MONO / STEREO



When listening to stereo reception, normally set MONO / STEREO  to STEREO. If the stereo reception is too weak or noisy, set the selector to MONO.

MONO: weak signal broadcast, voice program, mono broadcast.

STEREO: strong signal broadcast, music, FM Stereo broadcast.

LIGHT

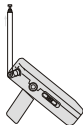


Press and hold LIGHT button  to lighten the display when necessary.



Light consumes a lot of power, just use it as necessary!

USING FOLDING FLAKE



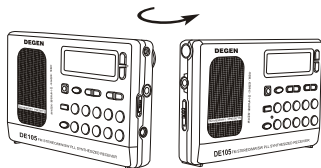
Inset folding flake into the slot in rear panel, extending the telescopic antenna straight upward.

USING ANTENNA

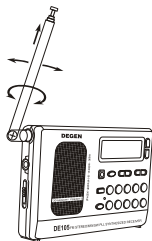
MW Reception

Magnetic antenna inside the unit functions as MW antenna, it is strongly effected by the reception direction.

When listening to MW broadcast, reorient the unit to find the position which gives the best reception.



(MW)



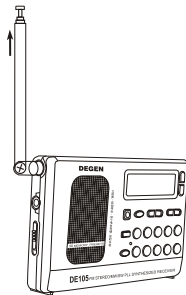
(FM)

FM Reception

Telescopic antenna functions as FM antenna, keep it extended and change its length and direction to find the position which gives the best reception.

SW Reception

Telescopic antenna functions as SW antenna. Extending the antenna straight upward to get the best reception.



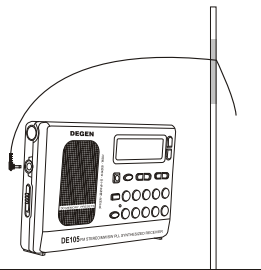
(SW)

External Antenna

If FM or SW reception is too weak, use a external antenna to improve reception.



Do not use external antenna in thunder storm day.



CAUTIONS

On Handling

- Avoid exposure to temperature extremes, direct sunlight, moisture, sand, dust or mechanical shock.
- Should anything wrong with the radio, please remove the battery and have the unit checked by qualified personnel before operating it any further.
- Use only power sources specified in this manual.
- When the unit is not being used for a long period of time, remove the batteries to avoid damage from battery leakage and corrosion.
- The LCD display may become hard to see or slow down when using the unit at high temperatures (above 40°C) or at low temperatures (below 0°C). At room temperature, the display will return to its normal operating condition.
- The product may not operate normally, when the ESD (8kV) applied on the metal coated buttons. It is necessary to reset manually.

Notes On Earphones

- Avoid using earphones at high volume, if you experience a ringing in your ears, reduce volume or discontinue use.
- Shut down the radio before sleeping.
- Do not use earphones while driving or cycling, it can also be potentially dangerous to play your earphones at high volume while walking, especially at pedestrian crossing.

SPECIFICATIONS

1. Frequency Range	
FM	87.5 - 108.0 MHz
MW	9K 522 - 1620 KHz 10K 520 - 1620 KHz
SW	5.95 - 15.6 MHz
49m	5.950 - 6.200 MHz
41m	7.100 - 7.300 MHz
31m	9.500 - 9.900 MHz
25m	11.65 - 12.05 MHz
22m	13.60 - 13.80 MHz
19m	15.10 - 15.60 MHz
2. Memory Stations (30)	
3. Power Supply: 3V - 5V DC 2 AA Batteries	
4. Speaker:	D 50mm
5. External Earphone:	D 3.5mm
6. Dimensions:	Approx. 70x110x20 mm
7. Mass:	Approx. 155 g (excl. Battery)