CLOCKAUDIO®

CW-8000

UHF PLL WIRELESS MICROPHONES SYSTEM INSTRUCTION MANUAL

CLOCKAUDIO®

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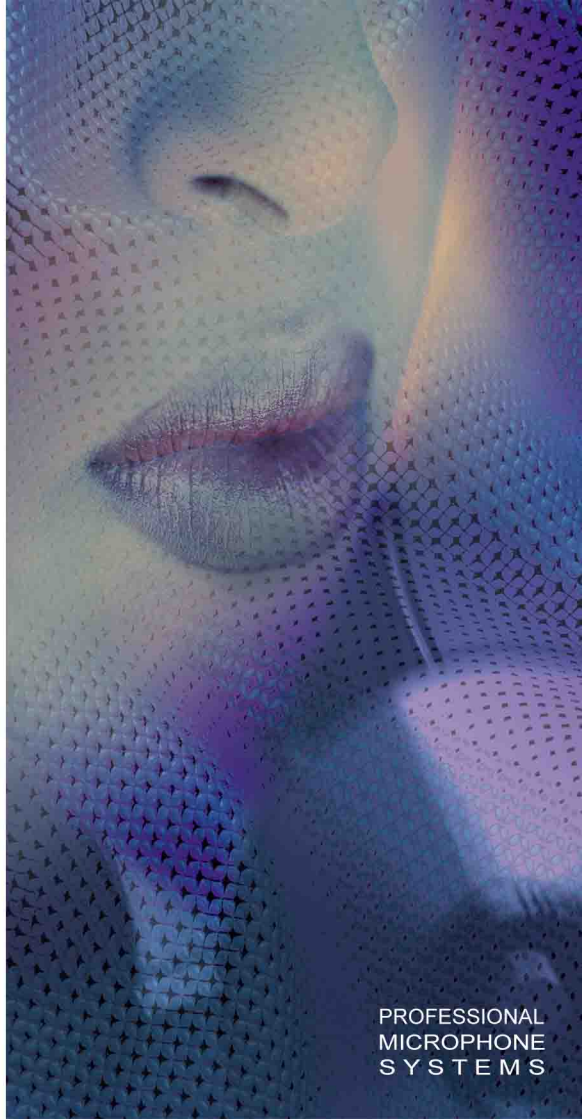E-mail: sales@clockaudio.co.uk

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PROFESSIONAL
MICROPHONE
S Y S T E M S

INDEX

1. System operation instructions

- Before connecting to **a power supply** make sure the voltage marked on equipment is the same as that on the power socket.
- Do not place the equipment in damp and hot environment.
- Prior to operation, please dry your hands.
- Keep the equipment away from fire and heat source.
- Transmitter and receiver need to be adjusted to the same "default channel" or "frequency".

2. Features

2-1 UHF PLL Broadband true diversity receiver CW-8000R

The Wide Band Wireless Microphone System uses the latest wireless **PPL** technology Up to 75 MHz bandwidth **allows** multi system application.
REMOSET provides great convenience to project set up, advanced features assure a successful performance.

- UHF PLL True Diversity System renders 200 to 480 metres of operation distance.
- Maximum 2400 to 3000 selectable frequencies across 60~75 MHz.
- Maximum 12 groups, each provide maximum 40 channels. (figures vary according to frequency band)
- Provide 6 user-built groups, maximum 40 channels for each group.
- Automatic search function for available frequency.
- **REMOSET®** function, one press allows instant **pairing of transmitter and receiver.**
- Adjustable squelch level.
- LCX circuit design technology effectively reduces noise interference.
- Antenna booster power, compatible with various external antennas.

2-2 UHF PLL Handheld transmitter CW-8000

- Maximum 2400 to 3000 selectable frequencies across 60~75 MHz.
- Phase-locked loop circuit design.
- Extended dynamic range and smooth frequency response.
- Tone key squelch.
- Replaceable condenser or dynamic capsule module.
- Hidden antenna design.
- Lock-On function prevents signal interruption due to accidental change.
- Adjustable transmission power between 10mW and 50 mW.
- Battery life 12 Hours at 10Mw. 7 Hours at 50Mw.

2-3 UHF PLL Body-Pack Transmitter CW-8001

- Maximum 2400 to 3000 selectable frequencies across 60~75 MHz.
- Phase-Locked Loop (PLL) synthesized tuner.
- Extended dynamic range and smooth frequency response.
- Adjustable transmission power
- Tone-key squelch
- The "lock-on" function mode prevents tampering and RF interruption.
- 4 pin mini XLR connector compatible with guitar cable and various vocal and instrument mics.
- Adjustable transmission power between 10 mW and 50 mW
- Battery life 12 Hours at 10Mw. 7 Hours at 50Mw.

3. Specification

3-1 UHF PLL Broadband true diversity receiver CW-8000R

Frequency oscillation mode	PLL Synthesized Control
REMOSET...................................	Radio Frequency
Frequency range..........................	502~960 MHz
Signal to noise ratio...................	> 105dB
Total distortion rate...................	<0.6%@1KHz
Function display method.......	LCD and LED
Function display content........	Channel , Group , Antenna A/B , Mute , AF/RF , Low battery , Device ID
Control method..........................	ON/OFF , Frequency (up/down) , Available frequency scan , Volume , Jog dial , ID pairing , REMOSET , Squelch level
Audio output level.....................	-12dB
Audio output impedance......	600Ω
Mute method............................	Pilot tone and noise mute
Power supply.............................	+12 VDC , 1000 mA
Output type...............................	1 balanced XLR connector
	1 balanced Ø6.3mm connector
Dimensions..............................	W 212mm (8.35") H 44mm (1.73") L 214mm (8.43")

3-2 UHF PLL Handheld transmitter CW-8000

Frequency.................................... PLL Synthesized Control
Frequency range........................ 502~960MHz (Depend on Local Regulation)
RF output.................................... 10mW/50mW (Depend on Local Regulation)
Stability...................................... < ±10KHz
Frequency drift.......................... ±48KHz
LCD.. Frequency (up/down) , Power indicator , Device ID
Control method.......................... Power switch , AF , Frequency (up/down) , Lock-On ,
                                               ID pairing
Spurious Emissions.................... < -50dBC
Frequency response.................... 50~16,500Hz
Battery type................................ 2 x UM3 , AA 1.5V

3-3 UHF PLL Body-Pack Transmitter CW-8001

Frequency .... PLL Synthesized Control
Frequency Range......................... 502~960 MHz (Depend on Local Regulation)
RF Outputs.................................. 10mW / 50mW
                                               (Depend on Local Regulation)
Stability...................................... < ±10KHz
Frequency Deviation.................. ±48KHz
LCD Display.................................. User name, Group, Channel, Frequency,
                                               Battery Fuel Gauge, Sensitivity
Controls....................................... Power On/Off, AF Level,
                                               Frequency Up/Down, Lock-on Mode,
                                               ID Pairing
Spurious Emissions..................... < -50 dBC
Audio Frequency Response.... 50~16,500 Hz
Battery... 2 x UM3, AA 1.5V

4. Parts Identification & Accessories

## 4-1 Broadband true diversity receiver key function and LCD description CW-8000R

(1) Front panel

❶ Power switch: press switch once to turn power on; press and hold for 2 seconds to shut down.

❷ EXIT key: when UF-10R is under "setup menu", press EXIT to cancel selection or leave menu.

❸ Jog dial: on "setup menu" screen, turn jog dial to select setup item, after entering into the selected item turn jog dial to adjust the value.

❹ SETUP key: press and hold for 2 seconds to enter "setup menu"; press SETUP key to enter into setup mode for jog dial; after adjustment of value, press SETUP key to save the setting.

❺ REMOSET: Press REMOSET once to send frequency data to a microphone.

❻ LCD: refer to "(2) Receiver LCD instruction".

❼ AF: indicate current audio signal strength.

❽ RF: indicate current radio frequency signal strength.

❾ Antenna: 1/2 wave length antenna.
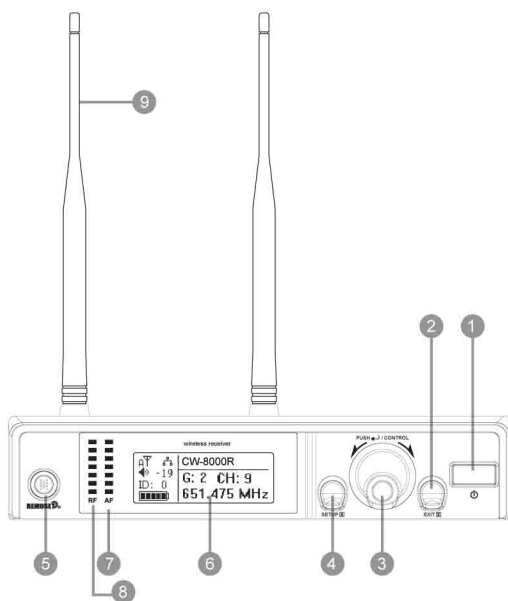
(2) Receiver LCD instruction

⑩ 🔒 : indicate key lock is set (Key lock on).

⑪ A︀🔺 : show antenna A or B is receiving signal; signal is not received 🔺ₓ .

⑫ ◀》 -19 : indicate current receiver volume.

⑬ ID: 0 : indicate device ID setting: ID number 0~255.

⑭ ▮▮▮▮▮ : indicate transmitter battery level; if no RF signal is received **MUTE** will show
　　　up.

⑮ G: indicate current Group, 1~13
　CH: indicate current Channel, CH1~63
　Frequency indication: current operation frequency
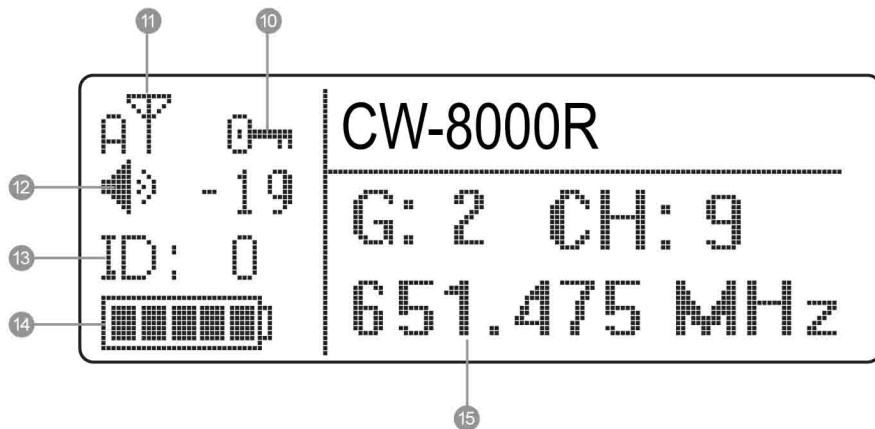
(3) Rear panel

⑯ Power supply　DC12V,1Amp
⑰ Balanced XLR MIC output
⑱ Ø 6.3mm (1/4") balanced output
⑲ BNC antenna socket: ANT 1 and ANT 2, set antennas vertical or sloping for better reception.
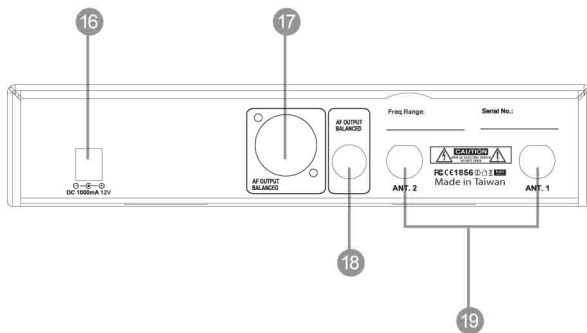

Note: select MIC or LINE audio output difference:

From setup menu, set "7. OUTPUT LEVEL":

Set Line: Output level of XLR MIC output and Ø 6.3mm (1/4") are identical

Set Mic: XLR MIC output level is lower than Ø 6.3mm (1/4") output by "-20dB"

4-2 UHF PLL handheld transmitter key function and LCD description CW-8000

(20) LCD

(21) Power key:

    Turn on power: press power key once

    Shut down power: press and hold power key for 2 seconds

(21) Mute Mode: Press the power key once to mute the microphone, press again to un-mute.

(22) ▲ , ▼: up and down keys, select setup function.

(23) SET: set up and save data

(24) Mute/REMOSET indicator lamp:

    Mute mode: red light flashes

    REMOSET successful: blue light on for 5 seconds

(25) Battery compartment
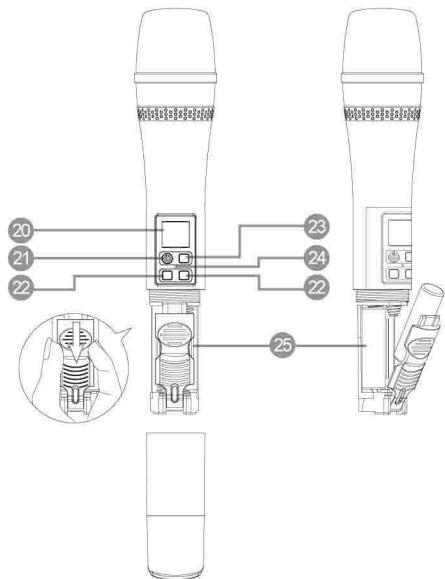
For screen display and operation please refer to "6-2. System operation setup for handheld transmitter".

㉖ LCD

㉗ Battery

Low Battery Indicator: when battery level is low the red LED will light constantly.
Note: when **first switching on the transmitter** the red LED will light for 1 second and turn off.

㉘ AF Peak and Mute Indicator

AF PEAK: Orange

Mute mode: Red light flashes

㉙ Power Key

(1) Turn on power: press power key once

(2) Shut down power: press and hold Power Key for 2 seconds

(3) Mute mode: during use, press Power Key once to mute the microphone, press it again to release.

(4) Leave the setting window: press the power key once the LCD display will return to the main window.

㉚ ▲ , ▼: up and down keys, select setup item

㉛ SET : set up and save data

㉜ User Name

㉝ Indicate current Group and current Channel

㉞ Current operation frequency

㉟ Battery status: display battery status

㊱ Microphone sensitivity
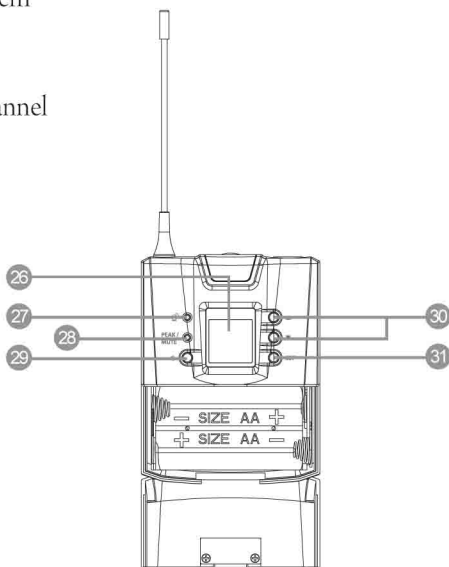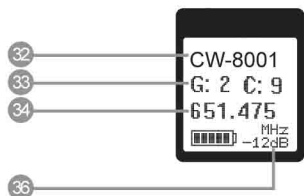
For screen display and operation please refer to "6-3. System operation setup for Body-Pack transmitter".

4-4 Accessories

60 AC/DC power adapter:
   Switching power adapter
   AC IN: AC100~240V/50~60Hz
   DC OUT: DC15V/1000 mA

61 Audio cable

62 Rack mount kit / RM-10 (optional)
   A RM-10E
   B RM-10M

63 Rack mount kit / RM-901 (optional)
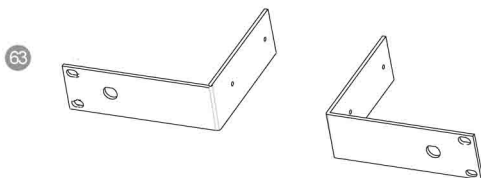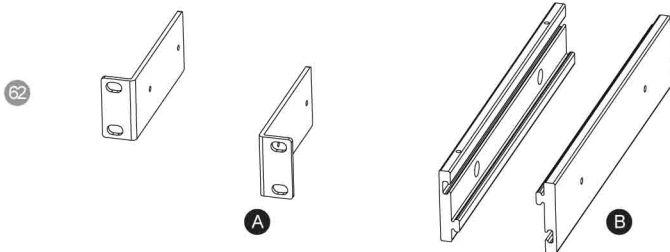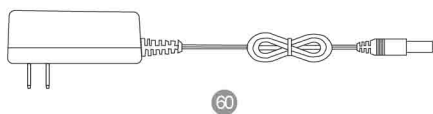
5. Connection method

Receiver connection method

1. UF-10R output to a mixer or an amplifier:

   Audio cable: XLR or Ø 6.3mm (1/4") audio cable, one end connects to audio output of **CW-8000R** "AF OUTPUT BALANCED", while the other end connects to audio input of a mixer or an amplifier.

2. Connect to power

   Plug the adaptor into receiver "DCV INPUT", while the other end connects to AC power socket.
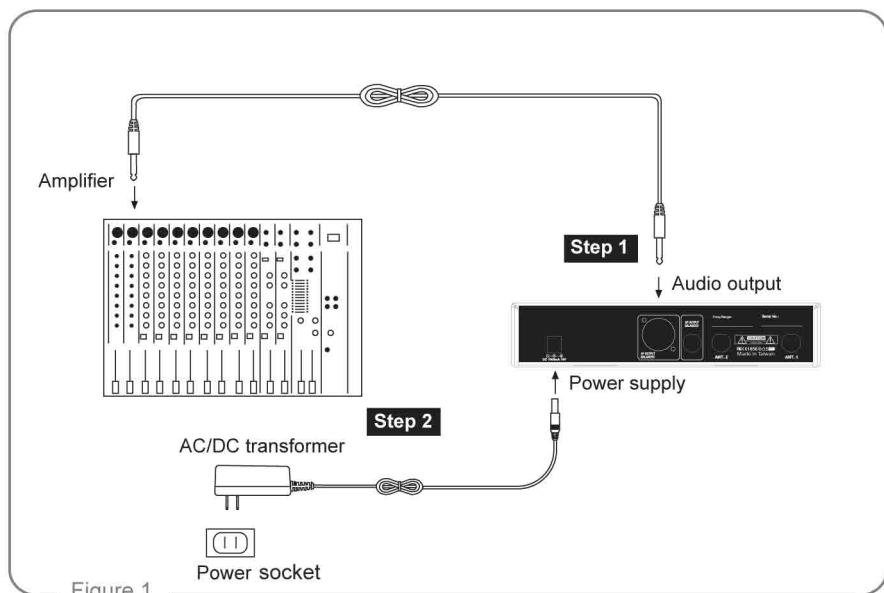
Figure 1

3. Receiver rack mount kit assembly / RM-10 (optional)

(1) Assemble the rack mount kit as the following illustration to mount two **CW-8001R** into one U rack.

(2) Lock equipment onto a rack
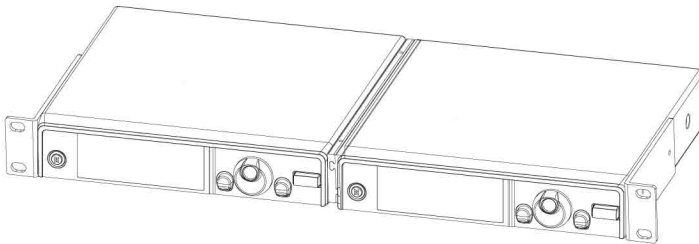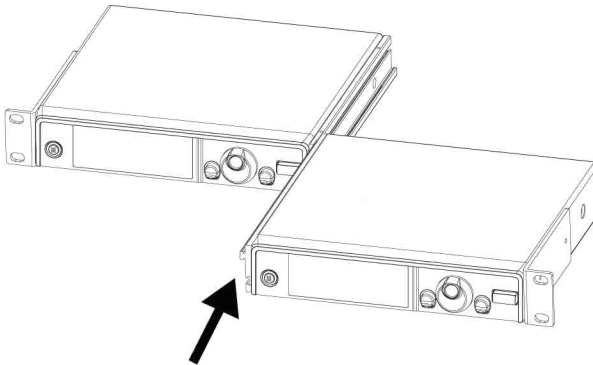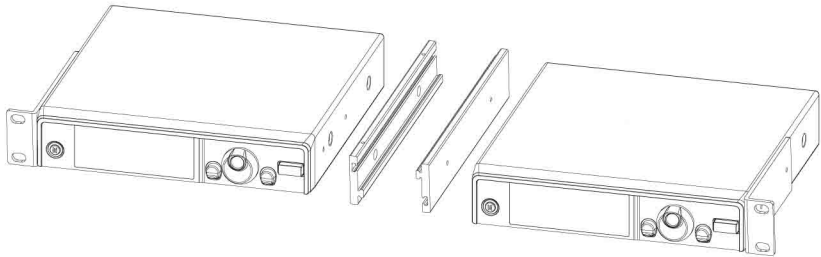
4. Rack Mount Kit RM-901 (optional)

- Mount one **CW-8001R** into one U rack.

(1) Screw the rack mount kit on the receiver.

(2) screw the whole set onto a rack.
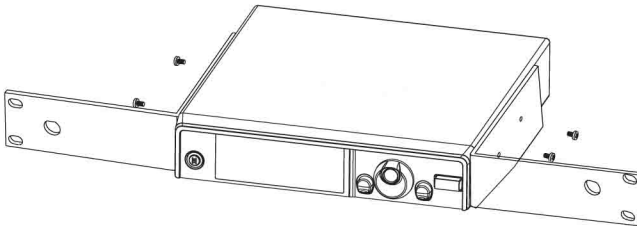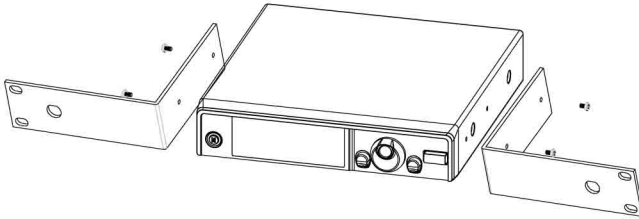
6. Operation

6-1 Operation setup for broadband true diversity receiver system CW-8000R

1. Turn receiver power on

   (1) Connect antennas onto the receiver

   (2) Press power key ❶ once to turn power on

   (3) Shut down: press and hold power key for 2 seconds.

2. REMOSET function:

   (1) Pressing REMOSET key, blue light starts to flash, indicating transmitting frequency data.
   (Fig. 1)
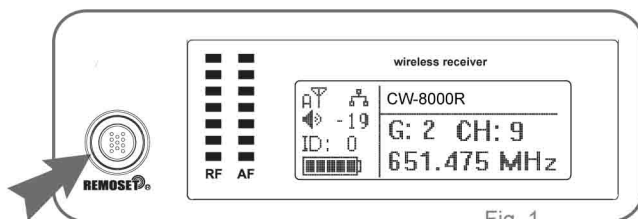
Fig. 1

(2) When microphone receives data, microphone indicator lamp ㉔ shows blue light for 5 seconds, while receiver blue light stops flashing, indicating the REMOSET has been done successfully . (Fig. 2)
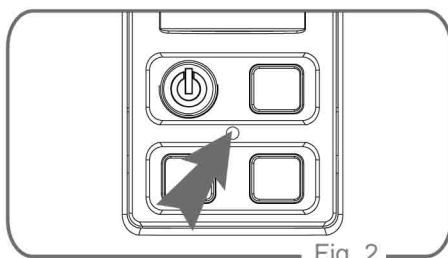
Fig. 2

(3) Receiver blue light flashes slowly, indicating REMOSET failure, please check it:

   1) Whether "frequency range labels" attached on receiver and microphone are the same.

   2) "REMOSET" selection in microphone function menu needs to be set "ON".

   3) Device ID for receiver and microphone should be paired.

   Refer to receiver setup method:

   4. Menu function setup "6. Device ID: set device ID"

   Refer to handheld transmitter setup method:

   6. Menu function setup "4. Device ID: set device ID"

3. Menu function setup:

   Press Setup key for 2 seconds to enter menu screen

   (1) Turn jog dial to make desired selection; press Setup key or press jog dial to enter setup screen; press Exit key to leave menu.

   (2) After entering into menu screen, turn jog dial to select default item; press Setup key or press jog dial to enter into menu screen.

   (3) After selecting the desired item, turn jog dial to obtain desired value; press Setup key to save the setting.

1. Frequency: set frequency

   (1) Turn jog dial to 1. Frequency , press Setup (or press jog dial) to enter into frequency adjustment screen.

M	1. Frequency
E	2.Group/Channel
N	3.User Group
U	4. Scan

   (2) After entering into frequency adjustment screen, first adjust left 3 digit frequency; turn jog dial with +/- 1 MHz as unit change; press jog dial to adjust right 3 digit frequency; press jog dial to switch frequency between left and right.

> **Setup Frequency**
>
> **638** .000 MHz
>
> G: - - CH: - -

   (3) Adjust right 3 digit frequency; turn jog dial with +/- 0.025MHz as unit change; press Setup key to save setting.

> **Setup Frequency**
>
> 638 . **000** MHz
>
> G: - - CH: - -

2. Group/Channel: set group and channel

   (1) Turn jog dial to 2. Group/Channel , press Setup (or press jog dial) to enter into setup screen.

M	1. Frequency
E	2.Group/Channel
N	3.User Group
U	4. Scan

   (2) Turn jog dial to select group G: group U1~U6 are user self-defined group/channel, which needs to be preset in 3. User Group before use (please refer to 3. User Group instructions for setup); press jog dial to set channel.

> **Setup Group/Channel**
>
> G: **1** CH: 1
>
> 638.100MHz

   (3) Turn jog dial to adjust channel CH: after adjustment, press Setup key to save setting.

> **Setup Group/Channel**
>
> G: 1   CH: **1**
>
> 638.100MHz

   (4) If not to save setting, press Exit key twice to leave.

3. User Group: user self-defined group and channel

Turn jog dial to "3. User Group", press Setup (or press jog dial) to enter into User Group setup screen.

M	1. Frequency
E	2.Group/Channel
N	**3.User Group**
U	4. Scan

  1. Custom Group: self-defined group

(1) Turn jog dial to "1. Custom Group"; press jog dial to enter into Custom Group screen.

1. Custom Group
2. Clear Group
3. Return

(2) Enter into Custom Group screen; press jog dial to switch setting from group (G), channel (CH), frequency in sequence; as frequency area shows "- - - . - - -MHz", it indicates the channel (G/CH) is not in use; turn jog dial to adjust frequency.

Setup Group/Channel
G: U1 CH: **1**
- - -,- - -MHz

  2. Clear Group: clear user self-defined groups

(1) Turn jog dial to "2. Clear Group"; press jog dial to enter into Custom Group screen.

1. Custom Group
2. Clear Group
3. Return

(2) Turn jog dial to select the group to clear; then press jog dial to clear the setting for the group; the frequency for all channels in the group will become "- - -. - - - MHz".

Group: **U1**
Rotary to select
Push "Entry" to clear
Push "Exit" to return

  3. Return: return to main menu

Turn jog dial to "3. Return"; press jog dial to return to main menu.

1. Custom Group
2. Clear Group
3. Return

4. Scan: scan channel

(1) Turn jog dial to "4. Scan", press Setup (or press jog dial) to enter into scan channel screen.

M	1. Frequency
E	2.Group/Channel
N	3.User Group
U	**4. Scan**

1. All Groups: scan all groups

(1) Turn jog dial to "1. All Group", press Setup (or press jog dial) to enter into menu screen.

1. All Groups
2. Result List
3. Current Group
4. Return

(2) After entering into the screen (press Exit to return to upper menu); in "Scan All Group" press jog dial to start scanning.

Scan All Group
Press Setup or Enter to
To Start Scan.
Press Exit to quit.

(3) Scan screen indicates current percentage of completion; to stop scan, press Exit key.

Scan All Group
Scanning...   10%

(4) After scan, automatically enter into "2. Result List" screen; user can enter directly by selecting it on menu.

Scan result can be seen on screen; select available channel; press Setup key to save setting; press Exit to cancel setting

Scan Result List
G: **1** CH: 1
Open Channel : 40

2. Result List: see scan list

Turn jog dial to 2. Result List; press Setup (or press jog dial) to enter into menu screen to see scan result; select available channel; press Setup key to save setting; press Exit to cancel setting.

Scan Result List
G: **1** CH: 1
Open Channel : 40

3. Current Group: scan single channel

(1) Turn jog dial to "3. Current Group"; press jog dial to enter into menu screen.

1. All Groups
2. Result List
3. Current Group
4. Return

(2) Turn jog dial to select Group first; press Setup key (or press jog dial) to start scan.

Scan Current Group
G: **1** CH:1

(3) After scan, screen shows OK; press jog dial once to scan the next channel; press Exit to return to upper menu.

Scan Current Group
G: U1   CH: **6**   OK
Press "Setup" to Save.

4. Return: return to main menu

Turn jog dial to "4. Return" ; press jog dial to return to menu screen

1. All Groups
2. Result List
3. Current Group
4. Return

5. Squelch: Adjust receiving sensitivity

(1) Turn jog dial to "5. Squelch", press Setup (or press jog dial) to enter into adjustment screen.

M	5. Squelch
E	6. Device ID
N	7. Volume
U	8. Output Level

(2) Turn jog dial to adjust squelch, ranging from 10 ~ -5; 0 is standard, press Setup key to save setting; higher number represents lower sensitivity; lower number represents higher sensitivity.

Setup Squelch
0

6. Device ID: set device ID

(1) Turn jog dial to "6. Device ID", press Setup (or press jog dial) to enter into ID adjustment screen.

M	5. Squelch
E	**6. Device ID**
N	7. Volume
U	8. Output Level

(2) Turn jog dial to adjust ID, ranging 0~255; press Setup key to save setting.

The setting will affect the use of REMOSET.

Setup Device ID

6 (0~255)

7. Volume: Adjust volume

(1) Turn jog dial to "7. Volume", press Setup (or press jog dial) to enter into setup screen.

M	5. Squelch
E	6. Device ID
N	7. Volume
U	8. Output Level

(2) Turn jog dial to adjust volume, press Setup key to save setting.

Setup Volume

-15dB

8. Output Level: set audio output level

(1) Turn jog dial to "8. Output Level", press Setup (or press jog dial) to enter into setup screen.

M	5. Squelch
E	6. Device ID
N	7. Volume
U	8. Output Level

(2) Turn jog dial to select Line or Mic:

- Set Line: XLR MIC Output and Ø6.3mm (1⁄4") output volume level is same.

- Set Mic: XLR MIC Output volume is lower than Ø6.3 mm (1⁄4") output by -20dB.

(3) Press Setup key to save setting

Output Levell

◎ Line

◉ Mic.

9. Antenna Power: Set power on/off provided at BNC connecters

M E N U	9. Antenna Power
	a. User Name
	b. Contrast
	c. Key Lock

(1) Turn jog dial to "9. Antenna Power", press Setup (or press jog dial) to enter into adjustment screen.

Antenna Power
◎ ON
◉ OFF

(2) Turn jog dial to select ON or OFF to turn on or shut down antenna booster power; press Setup key to save setting.

a. User Name: set user name

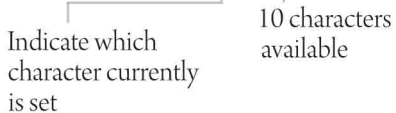| M E N U	a. User Name
	b. Contrast
	c. Key Lock
	d. Exit

(1) Turn jog dial to "a. User Name", press Setup (or press jog dial) to enter into User Name setup screen.

User Name
CW-8000R
Char:1/10

(2) Turn jog dial to select desired character; after confirmation press jog dial to go to next character setup; after setup press Setup key to save setting.
A user name consists of 10 characters at maximum.

Indicate which character currently is set

10 characters available

b. Contrast: adjust screen contrast

M E N U	a. User Name
	b. Contrast
	c. Key Lock
	d. Exit

(1) Turn jog dial to "b. Contrast", press Setup (or press jog dial) to enter into setup screen.

Setup Contrast
■■■■□□□ 4/7

(2) Turn jog dial to adjust screen contrast; after confirmation press Setup key to save setting; higher number represents darker color; 7 adjustable levels.

c. Key Lock: set key lock

(1) Turn jog dial to "c. Key Lock", press Setup (or press jog dial) to enter into setup screen.

M	a. User Name
E	b. Contrast
N	c. Key Lock
U	d. Exit

(2) Turn jog dial to select "Lock On"; after confirmation press Setup key to save setting; "Lock On" can lock all panel keys to prevent accidental touch except " Setup" key.

Setup Key Lock
◉ Lock On
◎ Lock Off

(3) At Lock On status pressing of any key will prompt texts as shown in the figure.

Press Setup for 2 Sec.
to unlock keyPad

(4) Cancel Lock On: press SETUP key for 2 seconds to go directly to "Key Lock" setup screen.
Turn jog dial to select Lock Off; after confirmation press Setup key to save setting.

Setup Key Lock
◎ Lock On
◉ Lock Off

d. Exit: leave menu
   Turn jog dial to "d. Exit"; press Setup key (or press jog dial) to return to main menu; or press "exit" to return to main menu.

M	a. User Name
E	b. Contrast
N	c. Key Lock
U	d. Exit

1. Turn power on for **CW-8000** handheld transmitter
(1) Turn on power: press power key once (Fig. 3).

(2) Shut down power: press and hold power key for
2 seconds.

Fig. 3

(3) Back: At setting or menu screen pressing of
POWER key will bring the screen back to menu
or home screen respectively.
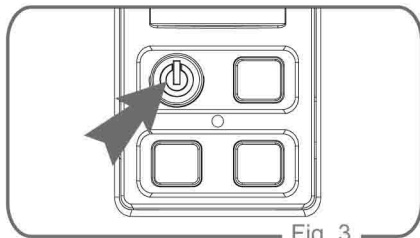
2. Menu function setup:
Press and hold SET key for 2 seconds; enter into function setup menu;
(1) Press ▲, ▼ keys to select desired item; press SET key to enter into menu.
(2) After entering into menu, press ▲, ▼ keys to adjust to desired value;
press SET key to save setting.

1.) Freq.: set frequency
(1) Press ▲, ▼ keys to Freq.; press SET key to enter into frequency adjust-
ment screen.
(2) After going to frequency adjustment screen, first adjust left 3 digit frequen-
cy; press ▲, ▼ keys with "+/-" 1 MHz as unit change; after adjustment
press SET key to adjust right 3 digit frequency

Freq.
Group
Sensit.

Frequency
G:- - C:- -
638.100

(3) Adjust right 3 digit frequency: press ▲ , ▼ keys with "+/-" 0.025 MHz as unit change; after adjustment press SET key to save setting.

Frequency
G:- - C:- -
638.**100**

2.) Group: set group and channel

(1) Press ▲ , ▼ keys to Group; press SET key to enter into "Group" setup screen.

Freq.
Group
Sensit.
Mute

(2) After entering into the screen, press ▲ , ▼ keys to select the desired group; press SET key to switch to Channel setup.

Group/Channel
G: **1**
C: 1
638.100

(3) Press ▲ , ▼ keys to select the desired channel; press SET key to save setting.

Group/Channel
G: 1
C: **1**
638.100

3.) Sensit: microphone sensitivity setup

(1) Press ▲ , ▼ keys to Sensit; press SET to enter into "Sensit" sensitivity setup screen.

Freq.
Group
Sensit.

(2) Press ▲ , ▼ keys to adjust sensitivity with 3dB as unit change; adjustment range from -18dB to +12dB.

Sensitivity
3db

4.) Mute Mode:

(1) Press the power key once to mute microphone, press again to un-mute.

Freq.
Group
Sensit.

5.) Device ID: set device ID

(1) Press ▲ , ▼ keys to Device ID; press SET key to enter into "Device ID" setup screen.

Device ID
Remoset
RF Power
Contrast

(2) Press ▲ , ▼ keys to adjust default ID between 0 and 255; press SET key to switch to set ID: ON/OFF.

Device ID
0
ID:OFF

ID: ON → only if microphone ID and receiver ID are the same, REMOSET function can work.

ID: OFF → regardless of ID, the transmitter will accept REMOSET data from all receivers of the same band and with ID Off.

The setting will affect the use of REMOSET.

Device ID
0
ID: ON

6.) Remoset: set Remoset function on/off

(1) Press ▲ , ▼ keys to Remoset; press SET to enter into "Remoset" setup screen.

Remoset
RF Power
Contrast
Light T.

(2) Press ▲ , ▼ keys to select ON or OFF; press SET key to save setting.

Setting ON: Remoset function available.

Setting OFF: disenable Remoset function; and saves microphone power.

Remote Set
◎ ON
◉ OFF

7.) RF Power: set transmission power

(1) Press ▲ , ▼ keys to RF Power; press SET to enter into "RF Power" screen; set transmission power.

Remoset
RF Power
Contrast
Light T.

(2) Press ▲ , ▼ keys to select transmission power as Hi or Low; press SET key to save setting.

Attention: if setting is Hi, microphone consumes more power.

RF Power
◎ Hi
◉ Low

Note: Hi represents 50 mW and Low 10 mW.

8.) Contrast: adjust screen contrast

(1) Press ▲ ,▼ keys to Contrast; press SET to enter into "Contrast" screen; adjust screen contrast.

Remoset
RF Power
Contrast
Light T.

(2) Press ▲ ,▼ keys to adjust contrast; higher number represents higher contrast; otherwise, lower contrast; -3 ~ 0 ~ +3 total seven adjustable levels.

Contrast
0

9.) Light T.: set screen backlight time

(1) Press ▲ ,▼ keys to Light T.; press SET to enter into "Light T." screen; set screen backlight time.

Remoset
RF Power
Contrast
Light T.

(2) Press ▲ ,▼ keys to select backlight time;
3 options available; Always OFF (shut off), 5~30Sec (5 Sec as unit change), Always ON (always on).
The longer screen backlight time, the shorter battery life.

Light Time
5 Sec.

10.) Name: set user name

(1) Press ▲ ,▼ keys to Name; press SET to enter into "Name" screen; set user name.

Name
Key Lock
Exit
----

(2) Press ▲ ,▼ keys to select texts; after confirmation press SET key to set the next character; if no characters is needed, select "blank" character; after confirmation press SET key to save setting; Name consists of 10 characters at maximum.

Name
CW-8000
Char 1 / 10

Indicate which character currently is set

10 characters available

11.) Key Lock: set key lock

(1) Press ▲ , ▼ keys to Key Lock; press SET to enter into "Key Lock" screen; set key lock

Name
Key Lock
Exit
----

(2) Select "Lock On" to lock all keys to prevent accidental touch; if setting is Lock On, mute function is not affected.

Key Lock
◉ Lock On
◎ Lock Off

(3) If setting is "Lock On", except mute, pressing any other keys will prompt the following screen.

Press Set
For 2 Sec.
to unlock
Keypad.

(4) Cancel Lock On: press SETUP key for 2 seconds to go directly to "Key Lock" setup screen, select "Lock Off".

Key Lock
◎ Lock On
◉ Lock Off

12.) Exit: leave function setup menu

Press ▲ , ▼ keys to Exit; press SET key to leave menu.

Light T.
Name
Key Lock
Exit

6-3 System operation setup for Body-Pack transmitter / CW-8001

6-3-1 Turn power on for **CW-8001** Body-Pack transmitter (Fig. 5)

(1) Turn on power: press power key once

(2) Shut down power: press and hold power key for 2 seconds.

(3) Mute setup : When microphone is in use and mute setup is needed:

Set mute: short press power key once; indicator lamp flashes in red.

Cancel mute: short press power key again to cancel mute.

(4) Leave the setting window: press the power key once the LCD display will return to the main window.

Fig. 5
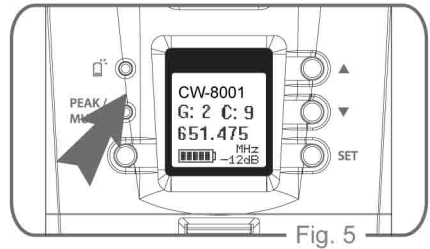
6-3-2 Menu function setup :

Press and hold SET key for 2 seconds; enter into function setup menu;

(1) Press ▲ , ▼ keys to select desired item; press SET key to enter into menu.

(2) After entering into menu, press ▲ ,▼ keys to select desired value : press SET key to save setting.

1. Freq.: set frequency

(1) Press ▲ , ▼ keys to Freq. ; press SET key to enter into frequency adjustment screen.

(2) After going to frequency adjustment screen, first adjust left 3 digits ;
Press ▲ ,▼ keys with "+/-" 1 MHz as unit change; after adjustment press SET key to adjust right 3 digits
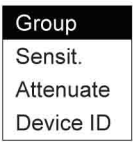

(3) Adjust right 3 digits : press ▲ , ▼ keys with "+/-" 0.025 MHz as unit change; after adjustment press SET key to save setting.

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2. Group: set group and channel

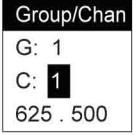(1) Press ▲ , ▼ keys to Group; press SET key to enter into "Group" setup screen.

Group
Sensit.
Attenuate
Device ID

(2) After entering into the screen, press ▲ , ▼ keys to select the desired group ; press SET key to switch to Channel setup.

Group/Chan
G: **1**
C: 1
625 . 500

(3) Press ▲ , ▼ keys to select the desired channel; press SET key to save setting.

Group/Chan
G: 1
C: **1**
625 . 500

3. Sensit: microphone sensitivity setup

(1) Press ▲ , ▼ keys to Sensit; press SET to enter into "Sensit" sensitivity setup screen.
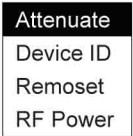
Sensit.
Attenuate
Device ID
Remoset

(2) Press ▲ , ▼ keys to adjust sensitivity with 3dB as unit change ; press SET key to save setting ; adjustable range from -18dB to +12dB.
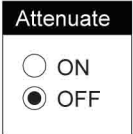
Sensitivity
12 dB

4. Attenuate : Microphone Attenuate

(1) Press ▲ , ▼ key to Attenuate. Press SET to enter "Attenuate" setup screen.

Attenuate
Device ID
Remoset
RF Power

(2) Press ▲ , ▼ key to select ON or OFF
  ON: -20dB attenuation
  OFF: No attenuation

Attenuate
○ ON
◉ OFF

5. Device ID: set device ID

(1) Press ▲ , ▼ keys to Device ID; press SET key to enter into "Device ID" setup screen.

Device ID
Remoset
RF Power
Contrast

(2) Press ▲ , ▼ keys to adjust default ID between 0 and 255; press SET key to switch to set ID: ON/OFF.

Device ID
255
ID : OFF

ID: ON → only if microphone ID and receiver ID are the same , REMOSET function will work.

Device ID
255
OFF / ON

ID: OFF → regardless of ID, the transmitter will accept REMOSET data from all receivers of the same band and with ID Off.

Device ID
0
OFF / ON

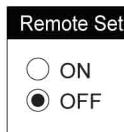Press SET key to save setting.

The setting will affect the use of REMOSET.

6. REMOSET: set REMOSET function on/off

(1) Press ▲ , ▼ keys to REMOSET; press SET to enter into "REMOSET" setup screen.

Remoset
RF Power
Contrast
Light T.

(2) Press ▲ , ▼ keys to select ON or OFF; press SET key to save setting.

Remote Set
○ ON
◉ OFF
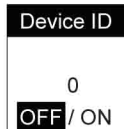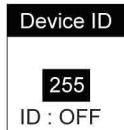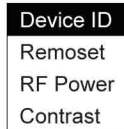
Setting ON: REMOSET function available.
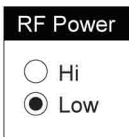Setting OFF: disenable REMOSET function; and saves microphone power.

7.RF Power: set transmission power

(1) Press ▲ , ▼ keys to RF Power; press SET to enter into "RF Power" screen;set transmission power.

RF Power
Contrast
Light T.
Name

(2) Press ▲ , ▼ keys to select transmission power as Hi or Low; press SET key to save setting.

RF Power
○ Hi
● Low

Attention: if setting is Hi, the RF signal is stronger while microphone consumes more power.
Note: Hi represents 50 mW and Low 10 mW.

8. Contrast: adjust screen contrast

(1) Press ▲ , ▼ keys to Contrast; press SET to enter into "Contrast" screen ; adjust screen contrast.

Contrast
Light T.
Name
Key Lock

(2) Press ▲ , ▼ keys to adjust contrast; higher number represents higher contrast ; otherwise, lower contrast; -3 ~ 0 ~ +3 total seven adjustable levels.

Contrast
0
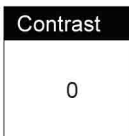
9.Light T.: set screen backlighting time

(1) Press ▲ , ▼ keys to Light T.; press SET to enter into "Light T." screen; set screen backlight time.

Light T.
Name
Key Lock
Exit

(2) Press ▲ , ▼ keys to select backlight time 3 options available; Always OFF (shut off), 5~30Sec (5 Sec as unit change), Always ON (always on).

Light Time
30 Sec.

The longer screen backlight time, the shorter battery life.

10.Name: set user name

(1) Press ▲ , ▼ keys to Name; press SET to enter into "Name" screen; set user
name.

Name
Key Lock
Exit

(2) Press keys to select texts; after confirmation press SET key to set the next
character; if no character is needed, select "blank" character; after confirmation
press SET key to save setting; Name a maximum of 10 characters.

User Name
CW-8001
Char 5/10

Indicate which
character currently
is set

10 characters
available

11.Key Lock :

(1) Press ▲ , ▼ keys to Key Lock; press SET to enter into "Key Lock" screen; set
Key Lock

Key Lock
Exit
Freq.

(2) Select "Lock On" to lock all keys to prevent accidental touch; if setting is Lock
On, mute function is not affected.

Key Lock
● ON
○ OFF

(3) If setting is "Lock On", except mute, pressing any other keys will prompt the
following screen.

| Press Set
for 2 Sec.
to unlock
keypad. |
| --- |

(4) Cancel Lock On: press SETUP key for 2 seconds to go directly to "Key
Lock" setup screen, select "Lock Off".
Press SET key to save setting.

Key Lock
○ ON
● OFF

12.Exit: leave function setup menu

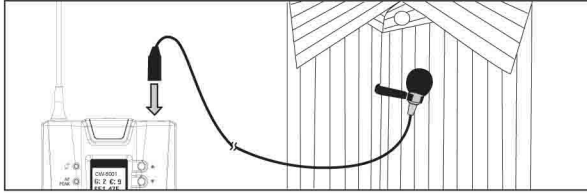Press ▲ , ▼ keys to Exit; press SET key to leave menu.

Note: Pressing the power key will return the LCD to the main menu.

| Exit |
| --- |
| Freq. |
| Group |

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6-4 Installation of Condenser Microphones

(1) Lavalier microphone

Attach the lavalier microphone to a tie, lapel or suitable postition for maximum sensitivity. Plug the connector into input socket on the body-pack transmitter.

(2) Headset microphone

Put the headband behind your head, and fix the ear supports over your ears as shown then adjust the gooseneck for maximum sensitivity Plug the connector into input socket on the body-pack transmitter.
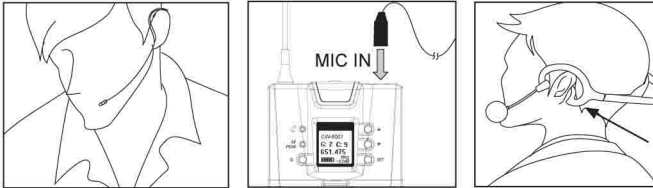
7. Product notes

(1) To get the best signal performance, please keep at least 3 metres between a receiver and a transmitter.

(2) Keep a receiver and transmitter from other metal object for at least 50cm.

(3) To prevent feedback and whistle, please do not aim transmitter to speaker.

(4) It is suggested to hold the middle section of transmitter (microphone) body to achieve the best pickup effect.

(5) When multiple units are in use, it is suggested to use AA-9000 antenna **distribution Amplifier** to prevent interference.

(6) When transmitter is not used for a long time, please remove batteries from battery compartment to avoid leakage of electrolyte solution **which could damage the transmitter.**

(7) When replacing batteries, please replace two batteries at the same time and use the same brand of battery, to assure the best power performance.

8. Warranty

Thank you for purchasing a Clockaudio product. We are confident that this product will give you many years of trouble free operation and is backed up with a 1 year warranty.

The product is guaranteed for 12 months from the date of purchase. Any defect that arises due to faulty materials or workmanship will either be replaced, or repaired free of charge by the agent from whom you purchased the unit. Please note charges will be incurred on any products returned for service/repair not in warranty or has been subject to customer abuse or incorrect wiring.

The guarantee is subject to the following provisions:

• The warranty does not cover accidental damage, misuse, cabinet parts, knobs, batteries or consumable items. Any product returned to Clockaudio failing to meet the terms listed will incur a repair and postage charge.

• The product must be correctly installed and operated in accordance with the instructions supplied with the product.

• Unauthorised modifications and alterations to the original specifications will render the warranty void.

• The product must be used for the sole purpose that it was designed for.

• The warranty given is strictly with the original owner and becomes invalid if the product is resold or becomes damaged by inexpert repair.

• Product purchased outside of the countries served by Clockaudio designated / approved Agents are not covered by the warranty.

• Specifications / improvements are subject to change without notice.

• Clockaudio disclaims any liability for incidental or consequential damages.

• The warranty is in addition to and does not diminish your statutory legal rights.

• As part of a continuous product improvement programme we reserve the right to alter specifications without notice.