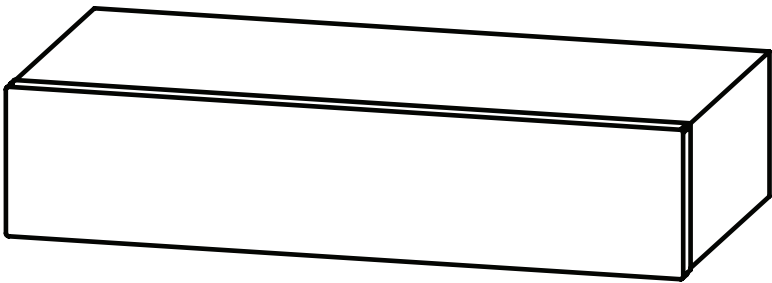# CHERON

Audio User Guide

MODEL#: W100-31
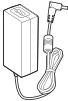
SAVE THESE INSTRUCTIONS

Table of Contents

1 Components List

The product package should include the following items, contact with your dealers if any component is missing or damaged:

Figure	Description	Quantity
	Main Unit	1PC
	Power Adapter	1PC
	Power Cord	1PC
	Remote Control	1PC
	AAA Battery	1PAIR
	User Guide	1PC

2 Notice

This section contains the legal and trademark notices.

2.1 Notice of Compliance

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.

FCC rules
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/TV technician for help.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

FCC Warning: Any changes or modifications made to this device that are not expressly approved by Cheron Technologies Limited may void the user's authority to operate the equipment.
Model number: W100-31
Trade name: CHERON

Canada:
CAN ICES-3 (B)/NMB-3(B)
The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance.
This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.

2.2 Trademarks

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Cheron Technologies Limited is under license. Other trademarks and trade names are those of their respective owners.

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

3 Important

Read and understand all instructions before you use your product. If damage is caused by failure to follow instructions, the warranty does not apply.

3.1 Important safety instructions

⚠ WARNING   It is very important that you read, understand and carefully follow all portions of this User Guide as well as all safety instruction, warnings and related information. Failure to do so could result in serious injury, death or property damage. Not for use by children. Never let children operate or play with this product or leave children around the product unsupervised.

- **Read these instructions.**
- **Keep these instructions.**
- **Heed all warnings.**
- **Follow all instructions.**

- **Do not use this apparatus near water.**

- **Clean only with dry cloth.**

- **Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.**

- **Do not install near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

- **Do not defeat the safety purpose** of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- **Protect the power cord** from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

- **Only use attachments/accessories** specified by the manufacturer.

- **Use only with the cart**, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

- **⚠ WARNING** **Unplug this apparatus during lightning storm or when unused for long periods of time.**

- **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.**

  * Definition of a convenience plug, it is the same as an electrical outlet.

- In order to avoid the risk of fire, electric shock, serious bodily injury, death or property damage, this product must not be stored or used in or around water or any other type of liquid.

- **WARNING** To avoid the risk of fire, serious bodily injury, death or property damage, do not block any ventilation openings on the unit. The unit must be carefully installed and operated according to the manufacturer's instructions.

- **Do not alter or attempt to defeat** the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the grounded plug does not fit into your outlet, do not attempt to plug in or use the product. Instead, please contact a properly trained and licensed electrician to install an appropriate outlet made to be used with the grounded plug on this product. Altering or defeating the grounded plug may result in electric shock, serious bodily injury, death or property damage.

- It is important to prevent any part of the cord from being walked on, covered, pinched, crushed, cut or otherwise damaged. Failure to prevent such damage to the cord could result in fire, shock, serious bodily injury, death or property damage.

- **WARNING** Battery usage CAUTION - To prevent battery leakage which may result in serious bodily injury, property damage, death or damage to the unit:
  - Install all batteries correctly, + and - as marked on the unit.
  - Remove batteries when the unit is not used for a long time.
  - The batteries (battery pack or batteries installed) shall not be exposed to excessive heat.

- **WARNING** DO NOT INGEST BATTERY, CHEMICAL BURN HAZARD OR OTHER SERIOUS BODILY INJURY OR DEATH.

- **CAUTION** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

- **CAUTION** Explosion, death, serious bodily injury, fire or other property damage may occur if an improper battery is placed in this unit. Be sure to replace with the (insert AAA battery specs here) battery only.

- **WARNING** **To reduce the risk of fire, shock, death, serious bodily injury or property damage, do not place any candles on the unit or items containing any liquid.**

- **Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.**

  * Definition of a MAINS : It is the principal pipe, conduit, duct, or line in a system used to distribute electricity, the MAINS Plug is the Plug at the end of the wire.

- **Magnetized cards, watches, etc., can be damaged if installed too close to this unit.**

Class II equipment symbol

This symbol indicates that the unit has a double insulation system.

~

AC voltage

C A U T I O N
RISK OF ELECTRIC SHOCK
DO NOT OPEN
AVIS **RISQUE DE CHOC ÉLECTRIQUE / NE PAS OUVRIR**

- **WARNING:** To reduce the risk of fire or electric shock, this apparatus should not be exposed to rain or moisture and objects filled with liquids, such as vases, should not be placed on this apparatus.
- **CAUTION:** To prevent electric shock, serious bodily injury or death, do not open or disassemble the unit.

3.2 Care of the environment

Your product is designed and manufactured with high quality materials and components, many of which can be recycled and reused.

The batteries supplied do not contain the heavy metals mercury and cadmium.

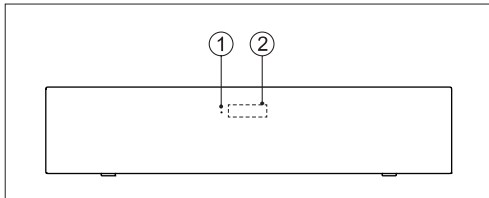Nevertheless, in many areas batteries may not be disposed of with your household waste.

Please ensure you dispose of batteries according to local regulations.

4 Your product

Congratulations on your purchase.
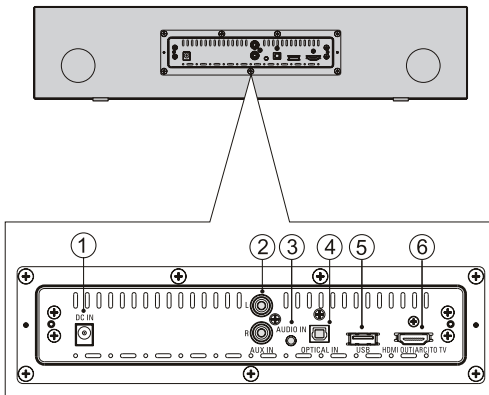
4.1 Main unit

4.1.1 Top panel of main unit

① **Standby indicator**
Standby indicator turn on red when unit is standby mode.

② **Display panel**

4.1.2 Back connectors of main unit

Connect other devices to your product.

① **DC IN**
Connect to AC power supply.

② **AUX IN**
Connect to an analog audio output on TV or an analog device.

③ **AUDIO IN**
Connect to TV or a MP3 player.

④ **OPTICAL IN**
Connect to an optical audio output on TV or a digital device.

⑤ **USB**
Connect to an optical audio output on TV or a digital device.
• Audio input from a USB storage device.

⑥ **HDMI OUT (ARC) TO TV**
Connect to the HDMI input on TV.

4.2 Remote control
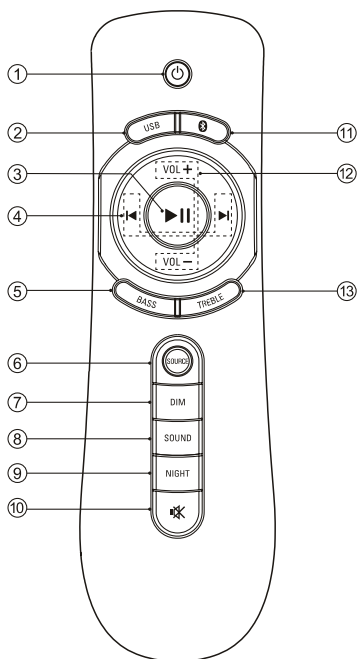
① **⏻ (Standby-On)**
Turn main unit on or off.

② **USB**
Switch to USB mode.

③ **▶❙❙ (Play/Pause)**
Start, pause or resume play.

④ **❙◀/▶❙ (Previous/Next)**
Skip to the previous or next track.

⑤ **BASS**
Increase or decrease bass.

⑥ **SOURCE**
Select an input source for the product.

⑦ **DIM**
Select brightness of the display panel for this product.

⑧ **SOUND**
Select a sound mode.

⚠ **WARNING** Listening to music at a high volume may cause temporary or permanent damage to your hearing.

⑨ **NIGHT**
Turn night mode on or off.

⑩ **🔇 (MUTE)**
Mute or restore volume.

⑪ **❂ (Bluetooth)**
Select to Bluetooth mode.

⑫ **VOL + / VOL −**
Increase or decrease volume.

⑬ **TREBLE**
Increase or decrease treble.

4.2.1 Replace battery

① Open the battery compartment.

② Insert "2 x AAA-R03-1.5 V" batteries, with the polarity (+/-) as indicated.

③ Close the battery compartment.
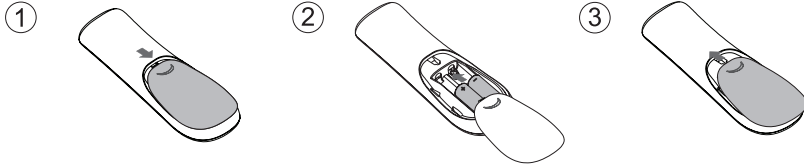
> ⚠ **Warning**
>
> • Danger of explosion included serious bodily injury, property damage, death or damage, if battery is incorrectly replaced. Replace only with the same or equivalent type.

5 Connect and set up
**This section guide you to connect to TV and other signal device for set up.**

> ⚠ **Note**
>
> • For identification and supply ratings, see the type plate at the back or bottom of the product.
> • Before you make or change any connections, make sure that all devices are disconnected from the power outlet.
> • If the product is transported in temperatures below 43°F (5°C), unpack the product and wait until its temperature matches room temperature before connecting it to the power outlet.

5.1 Position the product

> ⚠ **Note**
>
> • Please gently push the product from the front of the furniture, until the surface is flush with furniture.
> • There are 2 pieces cloth tab at the bottom of speaker audio, in order to pull out conveniently from the furniture once push inside. You can hide it by a ruler tool if no need.
> • ⚠ **WARNING** Never install this product in a confined space. Always leave a space of at least 4 inches back the product for ventilation. Ensure other objects never cover the ventilation slots on the product.
>   ⚠ Failure to ensure at least 4 inches of space back the product may cause fire, property damage, serious bodily injury, or death.
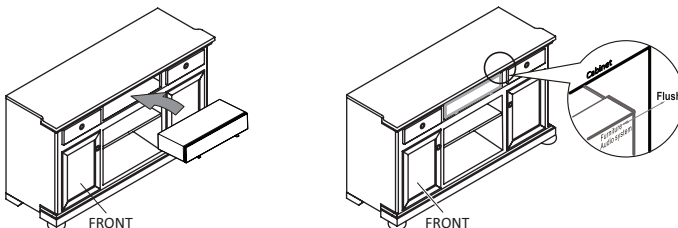
5.2 Connections

5.2.1 Connect To TV
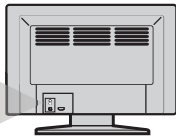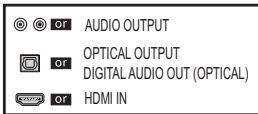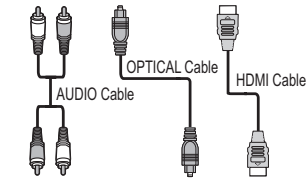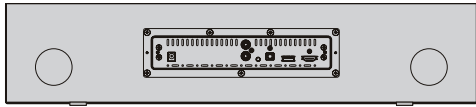
If your TV does not have audio outputs shown left, to connect the product directly to your other devices (Blu-Ray player, game system, etc.) see your device's user manual.

⚠ Note

- Make sure the unit is Turned Off when connecting.
- Check whether the connection for all cables are connected tightly.
- If you connect with a Audio in cable, make sure the volume for the headphone output is appropriate for the product input.
- If the Audio in volume is too soft, the product may not output sounds with appropriate volume.
- If the TV provides an ARC port, connect the HDMI cable to the HDMI IN (ARC) port.

5.2.2 Connect AC plug into AC outlet.
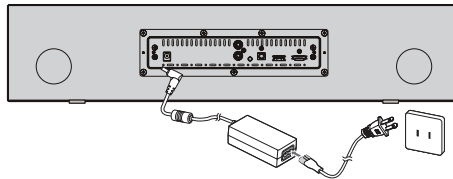
5.2.3 Turn on the product.

Please refer to "Play audio through Bluetooth" on 6.4 when you use Bluetooth.
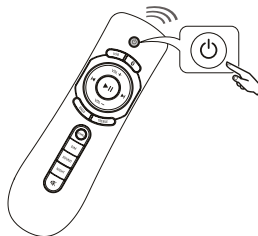
5.2.4 Press repeatedly SOURCE on the remote control to select the audio output of the connected device.
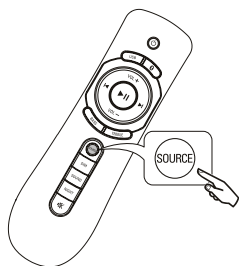
5.3 Connect audio from other device

Play audio other devices through your product.

> ⚠ **Note**
>
> • During play, do not plug out the audio cable.

Connect audio through a digital optical cable (Not supplied).

OPTICAL
(Not supplied)

OPTICAL IN

OPT
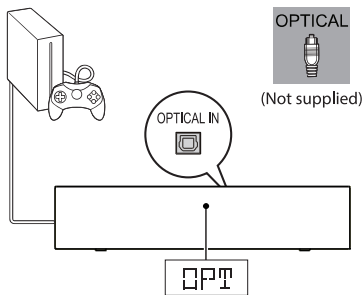
Connect audio through analog audio cables (Not supplied).

AUX
(Not supplied)

AUX IN
L
R

AUX

3.5MM STEREO
(Not supplied)

AUDIO IN

AUDIO IN

6 Use your product

This section guides you to play audio from connected devices.

Before you start
* Make necessary connections described in this User Manual at previous section, connect and set up.
* Use remote control to select correct signal source for audio.

6.1 Adjust the volume

1 Press **VOL +/-** to increase or decrease a volume level.
   * To mute sound, press ⬥ on remote control.
   * To restore the sound, press ⬥ again or press **VOL +/-**.

⚠️**WARNING** Listening to music at a high volume may cause temporary or permanent damage to your hearing.

6.2 Choose your sound

Select predefined sound modes to suit your video or music.

Sound mode
1 Press **SOUND** repeatedly to select a sound option from the display panel.
   * **MUSIC:** Recreate the original recording environment of you music, in the studio or at a concert.
   * **MOVIE:** Enjoy a cinematic audio experience, specially enhanced for movies.
   * **NEWS:** Hear every word with optimized speech and clear vocals.
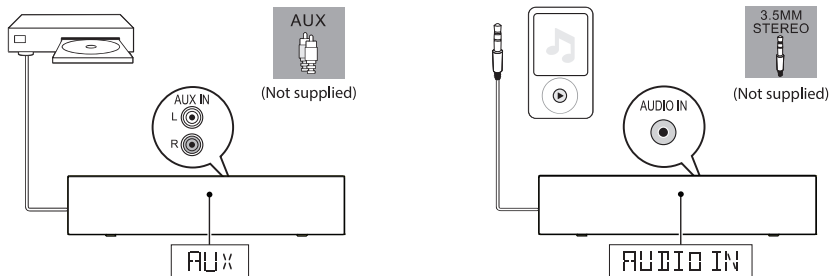   * **CLASSIC:** Flat and pure sound mode. Ideal for listening to classical music.

6.3 Equalizer

Change the high frequency (treble) and low frequency (bass) settings of the product.
* Press **TREBLE** on the remote control, within two seconds, press **VOL+/-** to increase or decrease the treble level.
* Press **BASS** on the remote control, within two seconds, press **VOL+/-** to increase or decrease the bass level.

6.4 Play audio through Bluetooth

Connect your product with a Bluetooth device wirelessly (such as an iPad, iPhone, iPod touch, Android phone, or laptop), and then you can listen to the audio files stored on the device through the speakers of this product.

What you need
- A Bluetooth device which supports version as 4.1 + EDR.

1 Press ✪ on the remote control to switch the product to Bluetooth mode.
   ↳ **BT** is displayed on the display panel, blinking.

2 On the Bluetooth device, switch on Bluetooth, search for and select **W100-31** (see the User Manual of the Bluetooth device on how to enable Bluetooth).
   ↳ During connection, **BT** on the display panel blinks.

3 Wait until you hear a beep sound from this product.
   ↳ When the Bluetooth connection succeeds, **BT** is displayed on the display panel.
   ↳ If the connection fails, **BT** on the display panel blinks continuously.

4 Select and play audio files or music on your Bluetooth device.
   - During play, if a call is coming, music play is paused. Play resumes when the call ends.
   - If your Bluetooth device supports AVRCP profile, on the remote control you can press ◄ / ► to skip to a track, or press ►II to pause/resume play.

5 To exit Bluetooth, select other source.
   - When your switch back to Bluetooth mode, Bluetooth connection remains active.

⚠ **Note**

- The music streaming may be interrupted by obstacles between the device and this product, such as wall, metallic casing that covers the device, or other devices nearby that operate in the same frequency.
- If you want to connect your product with another Bluetooth device, press and hold ✪ on the remote control to disconnect the currently connected Bluetooth device.

6.5 Night mode

For quiet listening, night mode decreases the volume of loud sounds when audio is played. Night mode is only available for Dolby Digital soundtracks.

1 Press **NIGHT** to turn night mode on or off.

6.6 USB storage devices

Enjoy audio on a USB storage device, such as an MP3 player and USB flash memory, etc.

What you need
- A USB storage device that is formatted for FAT or NTFS file systems, and complies with the Mass Storage Class.

1 Connect a USB storage device to this product.

2 Press **USB** on the remote control.

3 Use the remote control to control play.
   - Press ►II to start, pause or resume play.
   - Press ◄ / ► to skip to the previous or next track.

- During USB play, Press and hold ▶ll to select one repeat, all repeat, shuffle or off repeat mode.

⚠ **Note**

- This product may not be compatible with certain types of USB storage device.
- Digital camera PTP and MTP protocols are not supported.
- Do not remove the USB storage device while it is being read.
- DRM-protected music files (MP3,WMA) are not supported.
- Support a USB port: 5V ⎓, 1A.

6.7 Set display brightness

You can press **DIM** repeatedly to select a different brightness level of the display panel on this product.

6.8 Auto standby

When playing media from a connected device, the product automatically switches to standby after 15 minutes if no audio/video signal is received from a connected device.

6.9 Apply factory settings

You can reset this product to the default settings programmed at the factory.

1 Press repeatedly **SOURCE** on the remote control, until the **AUX** on the display panel. In AUX IN mode, on the remote control press **VOL -**, **BASS**, and **TREBLE** in sequence within three seconds.
   ↳ When the factory setting restore is complete, the system shuts down into standby mode and restart.

7 Product specifications

Specifications and design are subject to change without notice.

Specifications
Amplifier RMS Total output power: 70 W RMS (+/- 0.5 dB, 10% THD) Frequency response: 20 Hz-20 kHz / ±3 dB Signal-to-noise ratio: > 65 dB (CCIR) / (A-weighted) Input sensitivity: • AUX: 1000mV • AUDIO IN: 500mV
Bluetooth • Bluetooth profiles: A2DP, AVRCP • Bluetooth version: 4.1 + EDR
USB • Compatibility: Hi-Speed USB (2.0) • Class support: USB Mass Storage Class (MSC) • File system: FAT16, FAT32, NTFS • Supports MP3 and WMA file formats

Main unit
• Power supply:
  • Model (DYS branded AC power adapter): DYS602-210309W;
    Manufacture: Dongguan Dongsong Electronic Co., Ltd.
  • Input: 100-240 V~, 50/60 Hz 1.5 A
  • Output: 21V ⎓, 3.09A
  • Efficiency level: VI
• Standby power consumption: ≤ 0.5 W
• Speaker impedance:
  • Woofer: 6 ohm
  • Tweeter: 8 ohm
• Dimensions (WxHxD): 578 x 128 x 289.2 mm
• Weight: 5.5 kg
• Operating temperature range: +41°F (5°C) to + 95°F (35°C)

Remote control battery • 2 x AAA-R03-1.5 V

8 Troubleshooting

To keep the warranty valid, never try to repair the product yourself.
Malfunctions may occur with any electrical equipment. This must not always involve a defect of the device. Therefore, check the following table to see if you can eliminate the problem yourself.

Malfunction	Possible cause/ Elimination
The product does not work.	• Disconnect the product from the power supply for a few minutes, then reconnect.
No sound from the product speakers.	• Connect the correct audio cable from your product to your TV or other devices. • On your product remote control, press the Source buttons to select the correct audio input. • Make sure that the product is not muted. Press **VOL +/-** to restore the sound (see 'Adjust the volume' on page 15). • Switch or set to other audio signal of your connected external device (This product support for Dolby Digital and LPCM).
A device cannot connect with the product via Bluetooth.	• The device does not support the compatible profiles required for the product. • You have not enabled the Bluetooth function of the device. See the User Manual of the device on how to enable the function. • The device is not correctly connected. Connect the device correctly. • The product is already connected with another Bluetooth device. Disconnect the connected device, then try again.
Quality of audio play from a connected Bluetooth device is poor.	• The Bluetooth reception is poor. Move the device closer to the product, or remove any obstacle between the device and the product.
The connected Bluetooth device connects and disconnects constantly.	• The Bluetooth reception is poor. Move the device closer to the product, or remove any obstacle between the device and the product. • For some Bluetooth, the Bluetooth connection can be deactivated automatically to save power. This does not indicate any malfunction of the product.
No reaction to the remote control	• The battery has been exhausted, please change new. • Ensure the battery placed correctly.

Integrated Audio Specifications and Information	Large Integrated Audio	Small Integrated Audio
Model Number	W100-41	W100-31
Product Brand	Cheron	Cheron
UPC #	0 24052352184	0 24052352177
Power Supply Voltage / Line Frequency	100-240V 50/60HZ	100-240V 50/60HZ
AC Power Cord (Detachable) Included	Yes 2m USA UL Power Cord	Yes 2m USA UL Power Cord
AC/DC Adaptor Included	Yes	Yes
Stand-By Power Consumption	≤0.5W	≤0.5W
Unit Dimensions (mm) W x H X D (Including Jack and Rubber Foot)	603 x 509 x 216	578 x 128 x 289.2
Net Weight (kg)	13.79 kg	5.95 kg
Speaker - Amplifier Channel System Design	2.1 System (Left & Right Spkr + Sub)	2.0 System (Left & Right Spkr)
Total RMS Power Output with Less Than 10% Total Harmonic Distortion (THD)	70 Watts Total RMS	70 Watts Total RMS Power
L/R Speaker Output Power (RMS Power)	17.5W each Channel * 2 (35 watts RMS)	35W each Channel * 2 (35 watts RMS)
Subwoofer Output Power (RMS Power)	35 Watts RMS Power	N/A
Front Firing Speaker Design		
Driver Size	2 * 2.5" Driver	2 * (4" Full Range + 1" Tweeter)
Magnetic Shielded	No	No
Subwoofer Design	Built In	N/A
Driver Size	5.25" Sub	N/A
State of the Art Digital Amplifier and Signal Processing		
4 Preset Sound Performance Modes	Music, Movie, News, Classic	Music, Movie, News, Classic
Tone Control	Bass and Treble	Bass and Treble
Dolby Digital Signal Processor & Tonal Control EQ	Yes	Yes
PCM (Stereo)	Yes	Yes
Dolby Digital Night listening (Low Volume Enhance)	Yes	Yes
IR Remote Control	Included 15 Keys Remote Control	Included 15 Keys Remote Control
Power Switch On/Off	Standby (via RC)	Standby (via RC)
Source Selection Key	Input (via RC Source Key)	Input (via RC Source Key)
Volume (+/-)	Volume Up/Down (via RC)	Volume Up/Down (via RC)
LED Brightness Control	Low-Med-High via RC	Low-Med-High via RC
Direct BT Connect Button	Yes	Yes
Direct USB Input Connect Button	Yes	Yes
Track Play/Pause Fwd and Back Control	Yes	Yes
Bass and Treble Control	Yes	Yes
Mute Button	Yes	Yes
Bluetooth		
Bluetooth v4.1 + Enhanced Data Rate (EDR)	Yes (via RC)	Yes (via RC)
A2DP (Advanced Audio Distribution Profile) compatibility	Yes	Yes
AVRCP Audio/Video Remote Control Profile	Yes	Yes
USB High Speed USB 2.0 Port	Yes on Back Panel	Yes on Back Panel

USB Mass Storage Class MSC - Files Compatibility	MP3 and WMA Playback	MP3 and WMA Playback
USB Mobile Device Charging via Back Panel	Yes in Standby Mode .5MA	Yes in Standby Mode .5MA
USB File System FAT 16, FAT32, NTFS	Yes	Yes
Wired Back Panel Connectivity and Inputs		
HDMI-Input Audio Return Channel (ARC)	Yes, 1x HDMI ARC	Yes, 1x HDMI ARC
HDMI-Output	No	No
AUDIO Line-Input: 3.5mm Stereo Plug	Yes (3.5mm Jack for Audio In)	Yes (3.5mm Jack for Audio In)
AUX Audio Input: RCA Stereo Jack	Yes L & R Input	Yes AUX L & R Input
Digital Optical IN	Yes	Yes
AC Inlet	DC Adapter Inlet	DC Adapter Inlet
Included with Main Unit Audio Product		
Instruction Manual User Guide	Yes	Yes
Warranty Card	Yes	Yes
Remote Control	Yes	Yes
Batteries Included for (Remote Control)	Yes 2x AAA	Yes 2x AAA
AC/DC Adapter and Power Cord		
Audio Cables Included	No	No
License, Certificates, Royalties, and Trade Marks	Cheron W100-41	Cheron W100-31
UL Listed	Yes	Yes
FCC Compliance	Yes	Yes
Canadian RSS Compliance	Yes	Yes
Dolby Digital Licensed and Trademark Compliance	Yes	Yes
Bluetooth - Licensed and Trademark and Compliance	Yes	Yes
HDMI License and Trademark Compliance	Yes	Yes