

CuBitooth[®] v1.2



USER GUIDE

Ivadu electronics

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GENERAL DESCRIPTION

CuBitooth is an audio interface and hands-free with high quality sound, specially designed for use of smartphones and tablets in cars and intended to supplement or replace the installed sound systems in the automotive sector.

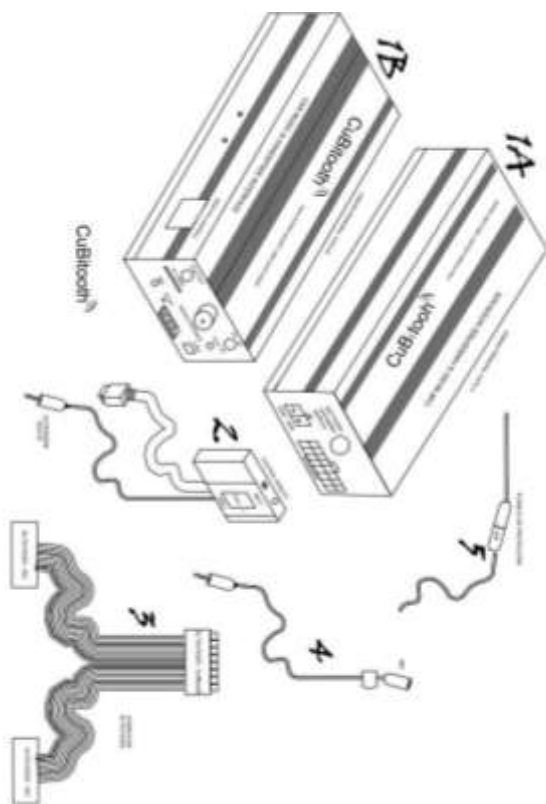
The unit is provided with the following functions:

- Remote Control (AVRCP) including a 3.5mm mini jack connector to extend the auxiliary input and built- in Mini USB power port 5V@500mA (optional) to charge mobile phones.
- Power port integrated into the main unit 5V@2A. (Optional).
- Playing MP3, WMA, WAP files.
- SD card reader for up to 32GB.
- Auxiliary input.
- 3.5mm stereo audio output.
- FM radio with search and automatic station memory (optional).
- A2DP, music streaming.
- DSP, digital sound processing with echo cancellation.
- HFP, Handsfree Profile
- Separate microphone
- MOSFET 80Wx4 Amplifier

The system is composed of: (see figure 1)

- 1) Main Unit
 - 1A.-Rear view of main unit
 - 1B.-Front view of main unit
- 2) Remote Control
- 3) Speaker cable connector
- 4) Microphone
- 5) Protection fuse
- 6) Optional expansion modules, for additional information, visit www.ivadu.com

FIGURE 1



WARNINGS

Use Cubitooth with caution, set a volume level that allows you to listen alerts of the environment while the vehicle is moving.

The functions requiring prolonged attention should not be used while driving the vehicle.

PRIOR TO INSTALLATION

Locate a suitable place to install the interface, be sure to:

- 1) The main unit is firmly installed, otherwise it may cause damage to the driver, any passengers or vehicle components.
If you use the built-in panels Cubitooth anchors, never drill a panel or dashboard without first checking what is behind, this could damage any device or wiring installed in the vehicle.
- 2) Perform a clean and orderly wiring installation. Ensure all wires are away from hot areas or moving parts. Never install Cubitooth in a place that can interfere with driving.
- 3) During installation ensure that the different elements of the interface does not interfere with airbags or any other safety element.
- 4) Keep auxiliary or microphone audio cables away from power cables as much as possible.
- 5) Check that no cable is in direct contact with the housing of the interface.
- 6) Check that all connectors are properly inserted
- 7) Cubitooth is designed to operate at 12V, if it is installed in a vehicle with a 24V battery you will need an adapter.
- 8) It is required to install the provided safety fuse (in the supply line).
- 9) Keep the bluetooth antenna away from metal areas as much as possible, do not install it in an enclosed site that is surrounded by any metal.

10) Find the right place to install the microphone, it is recommended that it be installed next to the driver sun visor.

11) Do not install Cubitooth in a humid place.

12) Install the unit in an enough space in order to ensure proper heat dissipation.

- We recommend installing the main unit under the plastic dashboard in the driver's area or in the area of the glove compartment. Ensure that any installed element interferes with the steering column, pedals, airbags, or any other element that may cause a malfunction.

- If installed elsewhere, make sure that the area is not exposed to the sun and check that temperature is not excessive. You may require extension cords, see the accessories available at www.ivadu.com

FIGURE 2. FRONT PANEL VIEW



FIGURE 3. REAR PANEL VIEW



INSTALLATION

Once you have found a suitable place, you can proceed to install CuBitooth in your car.

Note: We recommend that you get in touch with a professional to perform this installation.

- **It is recommended to turn off the engine and disconnect the car battery before proceeding with the next steps of installation.**
 - **Some vehicles may lose the stored information and may even need a security code to reinstall certain elements such as OEM car radio. Make sure that you have located all codes to restart OEM system components, if necessary. In case of any doubt, contact your dealer.**
- 1) Connect the speaker connector (Figure 2) to the speaker output of CuBitooth and to the respective ISO connectors of the car radio and car speakers.



- 2) Install the microphone (for example in the area of the driver's sun visor) and connect its connector on the MIC input on the front panel (Figure 2).
- 3) For the FM version, insert the antenna connector on the dedicated connector on the front panel of Cubitooth (Figure 2).

- 4) The remote control must be installed in an accessible area of the dashboard, make sure it does not interfere with any other element or that may interfere with normal driving or that may be prejudicial to safety. Connect the RJ45 connector to the REMOTE CONTROL port located on the side of the main unit and the extension of the auxiliary to the Aux-in input of the front panel.



- 5) Connect the REM power on the rear panel of Cubitooth (Figure 3) under the ignition key to 12V socket that can withstand an intensity of 10A, do not forget to install the supplied fuse protection.



- 6) Connect the GND ground directly to the car chassis. Make sure there is an appropriate contact between the ground wire and chassis.
- After the installation, do not forget to connect the battery again.
 - Use a good quality cable for both power and grounding of the unit. It is recommended to use a cable no longer than 1.5m and 2.5mm² diameter directly connected to the car chassis for grounding. Remember that the main unit is powered directly from any line under the ignition key (remote) that can withstand 10A. Be sure to install the fuse supplied with the unit.

CONTROL KEYPAD (FIGURE 4)



SELECTOR FOR AUDIO INPUT (FIGURE 5)



POWER SUPPLY 5V, 500mA (FIGURE 6)



TURNING ON AND FIRST PAIRING.

Cubitooth starts up automatically every time the ignition key is turned, emitting a confirmation message from the speakers.

Search for pairing is performed automatically when the ignition key is turned.

If you are turning on the interface for the first time, you must pair your phone with CuBitooth:

- Open the wireless properties of your mobile device and then turn on the Bluetooth radio in your device.
- If search on your terminal does not start automatically you must use the manual search.
- When (((CuBi))) appears on your terminal, click on “pair device”.

If the connection was established correctly you will hear a confirmation message from the speakers of the vehicle.

If you have already paired your device before, pairing is performed automatically as long as the Bluetooth radio in your terminal is connected before starting the interface.

TURNING OFF THE DEVICE.

The device automatically turns off when removing the ignition key.

UNPAIRING A DEVICE

To unpair a device, press and hold down the + key or the – key for one second.

DEVICE RESTART

To restart the device, remove the ignition key and wait 5 seconds in order to the interface enters st-by mode. Then, turn the ignition key on again to restart the interface.

USING THE BLUETOOTH FUNCTION

Whenever you make or receive a call, CuBluetooth will play sound through the speakers automatically.

You can control call functions from your mobile device or from the control keyboard (Figure 4):

- Central Button

* Short press: Take an incoming call, hang up during a telephone conversation

* Two short presses: Redial

- NEXT Button

* Long press: Increase call volume

- PREV Button

* Long press: Decrease call volume

- Private Call

* If you keep the +/- buttons pressed for one second at some point during the conversation, the phone will be disconnected and the sound from your call will ring through your device. Note that this task can not be running while driving.

USING THE ADDITIONAL FUNCTIONS.

By briefly pressing the +/- keys, you can select among bluetooth / FM Radio (optional) / TF card. You will hear a confirmation message for each selected option.

If you want to unpair a device, press for one second any of the +/- keys and release it, you will hear a confirmation message through the car speakers.

To use the auxiliary input, any device can be inserted directly into the unit connector or the extension connector on the controller. The switch on the main control permanently activates auxiliary input until turned off again.

BLUETOOTH FOR STREAMING MUSIC

Briefly press the +/- keys to select the Bluetooth feature, you will hear an alert from your car speakers. Ensure that your mobile phone is properly paired. Then, you can handle the mobile device directly from your Smartphone or through the keyboard controller:

Next: Short press: Next track
 Long press: Increase volume

Central Button: Short press: Play/pause
 Two short presses: Redial

Prev: Short press: Previous track
 Long press: Decrease volume.

+/-: Short press: TF/FM/BT
 Long press: Unpair BT.

*** Keyboard operation depends on the configuration of the attached device.**

SD CARD FUNCTION FOR PLAYING MUSIC

Insert an SD card into the SD Card slot on the main unit. If playback does not start automatically, briefly press +/- to select the SD Card function. Then, the music will start playing automatically.

Keyboard operation control for music playback from SD card:

Next:	Short press: Next track
	Long press: Increase volume
Prev:	Short press: Previous track
	Long press: Decrease volume
+/-:	Short press: FM/BT/TF

FM RADIO FUNCTION. (Optional)

Make sure your CuBi unit supports this function.

Check that you have connected the car antenna connector to the antenna connector of the main unit.

Short press +/- to select the FM Radio function.

Briefly press the +/- buttons to automatically find and store the available stations . (Optional)

Briefly press the next / prev buttons to select a station.

Press and hold the next / prev buttons to increase or decrease volume.

Aux-in FUNCTION

You can directly use the input on the main unit or the input on the control button. You can enable / disable the auxiliary input from the selector on the control unit.

EXPANSION MODULES (optional)

Visit our website to learn about the applications available for Cubitooth interface.

www.lvadu.com

INCREASE CONTROL FUNCTIONS OF CONTROL UNIT AND SECURITY MODULE

You may use certain applications to increase the functions to be performed by the dashboard controller. By any application of control "bluetooth headset" which is compatible with your mobile device, you can add features such as calling a specific contact, hearing the name of the incoming call through the speakers of the vehicle, playing a specific music file or opening google voice, and others.

For more information, visit our tutorials:

www.lvadu.com/cubitooth/tutoriales

BUILT-IN POWER SUPPLY: 5V@2Amax (Optional)

If you have included a power source in Cubitooth, you have a 5V power supply on the front panel through which you can charge any device that accepts 5V (2A max). Install the USB adapter to the 5V 2A power supply and charging device (Figure 2).

You can also use the 5V 500mA power supply included in the dashboard control unit (Figure 6).

GENERAL INFORMATION

Warranty

Without prejudice to the legal guarantee, the product has a contractual warranty of 24 months from the date of initial purchase by the user, covering material and workmanship defects, provided that proof of purchase (till receipt, invoice) is submitted. While the contractual warranty is in effect, the defective product must be returned in their original packaging to after-sales service.

Ivadu electronics, at its sole discretion, will either replace the defective product or refund the full amount paid, to the exclusion of any other compensation.

The warranty does not cover data loss, damage caused by accident, abnormal or unauthorized use of the product or a product that is not manufactured by Ivadu electronics.

Ivadu Electronics does not assume any responsibility for storage, loss or damage to data during transport or repair.

The shipping costs for return or repair the product, whether or not under warranty, they are paid by the importer.

Any product considered non-defective will be returned to sender, furthermore, management and transport expenses will be charged.

Modifications

The explanations and specifications contained in this manual are provided exclusively for information purposes and are subject to change without prior notice. They are considered correct at the time of sending the publication to print. Every care has been taken in the preparation of this manual, in order to provide accurate information. However, Ivadu electronics assumes no responsibility for any consequences of errors or omissions in the guide, nor for any damage or accidental loss of data resulting directly or indirectly from the use of the information contained herein.

Ivadu electronics reserves the right to modify or improve the design of the product or manual without any restrictions and without any obligation to notify users. In order to update and improve our products, it is possible that the product you have purchased may differ slightly from the model described in this manual. In this case,

you have at your disposal a newer version of this manual in electronic form on the website of Ivadu electronics: www.ivadu.com.

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

This symbol on the product or on its information documents, indicates that at the end of the service life of the product, do not dispose of it together with general domestic waste. Separate this from other types of wastes and recycle it properly. This product must not be disposed together with other commercial products.

Declaration of conformity

Ivan Duran Bermejo, Ivadu electronics, declares under sole responsibility that the product Ivadu electronics Cubitooth V1.2 described in this instruction manual is in compliance with Directive 1995/5/CE Radio and telecommunications equipment and meets the rules set out below:

- 1) EN60950-1:2006 – Electrical safety.
- 2) EN 62479:2010 – Health protection (power Radio <20 mW)
- 3) EN 300 328 v. 1.7.1- Radio 2,4 Ghz
- 4) EN 301 489-17 v2.1.1- EMC



