

# INDIGO-862DSP

DSP BLUETOOTH / USB / FM RECEIVER

USER MANUAL















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#### Disposal instructions

Directive Weee 2012/19/EU on waste from electrical and electronic equipment. The electrical equipment that has served its term should not be thrown out with the rest of the household waste. Please hand over it in secondary processing. To obtain the necessary information, contact the local authorities.

#### Important!

All illustrations given in this instructions are schematic images of objects and may slightly differ from their real appearance.

Due to the continuous finalization and improvement of the product, all technical characteristics, as well as the appearance, can be changed without prior notice.

#### Service life

In accordance with the law, the service life of 3 years from the date of sale of the device with a store is set for this device. The value of the service life is in no way related to the real life of the device and is exclusively an obligation in relation to the legal requirements of the Law on the Protection of Consumer Rights. Given the high quality control, reliability and degree of safety of the device, the actual duration of operation can significantly exceed the officially established service life, subject to the consumer of the rules established by the manufacturer.



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User manual contains important security recommendations and information about the proper operation of the device. Please carefully follow all the instructions given in this guide.

- When installing the device, avoid places with high temperature, humidity, or places where there is a lot of dust.
- 2. Make sure that the device and, in particular, its accessories for installation, are inaccessible to children.
- Do not drop the device and make sure that it is not subjected to blows, as this can lead to its damage.
- 4. The manufacturer does not bear any responsibility for any data loss that arose due to damage to this device, its repair or for any other reason.
- Do not disassemble the device yourself. This can lead to cancellation of the guarantee.
- 6. Do not use alcohol, solvents or gasoline to clean plastic parts and device display. For cleaning, use only dry soft fabric.
- 7. Avoid contact of the device with liquids.
- 8. The product is designed for use only with 12-volt electrical systems with negative grounding. The use of a device in systems with a positive grounding and/or voltage different from 12 volts can lead to damage to the car and device.

#### IMPORTANT!

The device is equipped with high-voltage RCA outputs, the signal level width of which reaches 6 volts!

When connecting external amplifiers:

- 1. Be sure to set the input sensitivity control (GAIN) on external amplifiers to the extreme left position (minimum)!
- 2. adjust the input sensitivity level correctly!

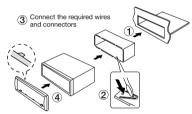
When the required level is exceeded, the amplifier begins to operate with distortion!



Open the package and make sure that there are inside:

- 1. USB resaver 1 pc.
- 2. The remote control 1 pc.
- 3. Keys for removing the receiver 2 pcs.
- 4. ISO-connector 1 pc.
- 5. Manual
- 6. Sticker

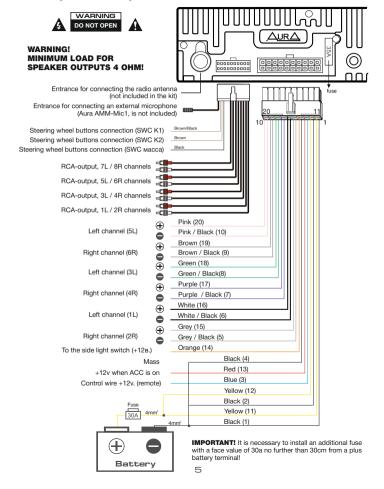
#### Installation of the device



- 1. Install the mounting casing in the hole of the 1din standard, provided by the manufacturer. If the regular place has a 2DIN size, use transitional frames and adapters of the AURA brand.
- 2. Light out the metal tongues on the mounting casing to fix it in place.
- Check electrical connections, connector or individual wires (depends on the configuration of a particular car model).
   Connect the main connector to the device. Check The system performance before fixing in the mounting casing.
- Insert the device into the mounting casing and push it inward to fixation by click.

In some brands of cars (for example, TOYOTA, HONDA, ...), the device is mounted by screws to standard brackets. In this case, the mounting casing is not used.

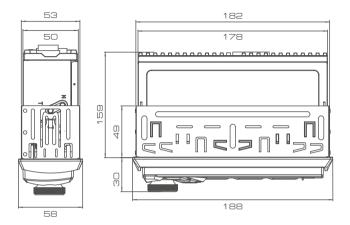
WARNING! Yellow (11 and 10) and black (2 and 1) power wires must be connected directly to the corresponding battery terminals using a copper cable with a cross section of at least 4 mm (12GA)<sup>2</sup>! Connecting to the standard wiring or to the standard ISO connector is not allowed!







- 1. Power on / Power off / Source selection
- 2. IR receiver
- 3. LCD display
- 4. USB port
- 5. Next track / Fast forward / Radio settings
- 6. Volume control / Switch settings / Confirm selection
- 7. Previous track / Fast rewind / Radio settings
- 8. Return / Search
- 9. Microphone
- 10. MUTE
- 11. Preset button 1 / Next folder
- 12. Preset button 2 / Previous folder
- 13. Preset button 3 / Repeat mode
- 14. Preset button 4 / Shuffle mode.
- 15. Preset button 5 / Pause
- 16. Preset button 6 / Track scan mode
- 17. Display information type / Display off (press and hold for 2 seconds)
- 18. Accept / End call / Voice assistant / Switch radio bands (FM1/2/3)
- 19. Resetting the device to factory settings (reset)
- 20. AUX input



#### Remote control

Removing the battery protection (CR-2025).

The remote control comes with a battery protection.

The remote control will not operate until the protection is removed.

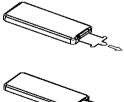
# Replacing the battery:

When the lithium battery has lost capacity, replace it as shown in the figure.

- 1. Pull the battery holder out of the remote control in the direction of arrow 1.
- 2. Replace the old battery with a new one.

Observe the polarity! Make sure that (+) is on top!

3. Insert the battery holder into the remote control.









- 1. (b) Turning on / off the device
- 2. Volume adjustment
- 3. Switching radio ranges

  / 

  ✓ Reception of a call
- 4. ◄ Previous track / rewinding back / Radio setting up
- 5. Choosing a source
- 6. ➤ Next track / rewinding forward / Radio setting up
- 7. Muffling sound (mute)
- 8. Call completion / clock
- Pre -configuration button 1
   / ►I Pause
- 10. Preliminary settings button 2
- / Skaging mode of tracks
- Preliminary settings button 3
   Repeat mode
- 12. Preliminary settings button 4
  - / Random play mode
- 13. Pre -configuration button 5/ Switch to 10 tracks backward
- 14. Pre -configuration button 6 / Switch to 10 tracks forward
- 15. Radio station reception (mono / stereo)
- 16. Loud subtle (LOD)
- 17. Memory scanning / Automatic search and memorization of stations (AMS)
- 18. Choosing a source
- Choosing the preset of equalizer
- 20. Lowering of the sensitivity of the tuner (LOC)

# Using remote control (PDU):

- Place the radiating window of the remote control in the direction of the sensor window on the device.
- A working angle for receiving the signals of the PDU is about 30 degrees.
- The distance between the radiation window of the DPD and the touch window of the device. It should be less than 5 meters.
- The sowing nutrition element can lead to damage to the remote control.
- Store the nutrition elements in an inaccessible place for children!



# Turning on / off

Press any button to enable the device.

Press and hold the button (1) U / SRC to turn off.

# Volume adjustment

Rotate the volume control handle to set the desired level.

#### Choosing a source

Press the button (1) **b** / SRC to switch between sources Reproduction: Radio -> USB -> Aux in -> Bluetooth.

# Settings menu

Press the volume adjusting button (6) and rotate to select the necessary settings section: AUDIO (sound settings), DISPLAY (display settings), TUNER (radio settings), BLUETOOTH (Bluetooth settings).

To select the desired section, press the volume control handle.

# AUDIO - audio settings

#### EQ setting

<u>Custom</u> - manual adjustment of 48-band equalizer (from -9 dB to +9 dB). EQ reset - reset equalizer settings.

#### Presets:

Flat, Classic, Rock, Pop, Easy, Top 40, JAZZ, Vocal, Country, Superbass, Natural, Electric, Powerfull, Dynamic.

# Q-factor

Level

Setting the quality factor (Q) value.

Values: 1 - 10.

# <u>Link All Band</u>

Yes - single Q value for all equalizer bands. No - individual Q value for each equalizer band.

#### Bass boost

Enable and adjust bass boost (5 levels).

# Loudness

Turning on and adjusting loudness (2 levels).



#### Subwoofer

Sub-W output - subwoofer on/off.

Sub-W level - adjusting the subwoofer volume level.

Sub-W stereo - 7/8 RCA subwoofer output

operating mode (Mono/Stereo).

# Fader

Adjusting the relative volume between 1/2 and 3/4 channels.

#### **Balance**

Adjust the relative volume between the left and right channels.

# Volume Step

Select the volume adjustment step value (1/2/3).

#### Volume limit

Select the maximum possible volume level (3 - 62).

#### Power on vol.

Selecting the volume level when turning on the receiver (1 - 62).

X-OVER

**1/2 Channel** - Setting up HPF, LPF, filter type, slope, level and phase of 1/2 channels.

1/2-HPF FRQ - cutoff frequency: Off / 20Hz - 12.5kHz.

1/2-HPF TYPE - filter type.

1/2-HPF SLOPE - roll-off slope: 6 - 48 dB per octave.

1/2-LPF FRQ - cutoff frequency: Off / 20Hz - 12.5kHz.

1/2-LPF TYPE - filter type.

1/2-LPF SLOPE - roll-off slope: 6 - 48 dB per octave.

1/2 GAIN - 1/2 channel level, from -8 dB to 0 dB. 1/2 PHASE - electrical phase switching:0° / 180°

**3/4 Channel** - Setting up HPF, LPF, filter type, slope, level and phase of 3/4 channels.

3/4 -HPF FRQ - cutoff frequency: Off / 20Hz - 12.5kHz.

3/4 -HPF TYPE - filter type.

3/4 -HPF SLOPE - roll-off slope: 6 - 48 dB per octave.

3/4-LPF FRQ - cutoff frequency: Off / 20Hz - 12.5kHz. 3/4-LPF TYPE - filter type. 3/4-LPF SLOPE - roll-off slope: 6 - 48 dB per octave.

3/4 GAIN - 3/4 channel level, from -8 dB to 0 dB. 3/4 PHASE - Electrical phase switching:0° / 180°

**5/6 Channel** - adjustment of HPF, LPF, filter type, slope, level and phase of 5/6 channels.

5/6-HPF FRQ - cutoff frequency: Off / 20Hz - 12.5kHz. 5/6-HPF TYPE - filter type. 5/6-HPF SLOPE - roll-off slope: 6 - 48 dB per octave.

5/6-LPF FRQ - cutoff frequency: Off / 20Hz - 12.5kHz. 5/6-LPF TYPE - filter type. 5/6-LPF SLOPE - roll-off slope: 6 - 48 dB per octave.

5/6 GAIN - level 5/6 channels, from -8 dB to 0 dB. 5/6 PHASE - Electrical phase switching:0° /  $180^\circ$ 

**7/8 Channel** - adjustment of HPF, LPF, slope, level and phase of 7/8 channels.

7/8-HPF FRQ - cutoff frequency: 10Hz - 100Hz / Off. 7/8-HPF TYPE - filter type. 7/8-HPF SLOPE - roll-off slope: 6 -48 dB per octave.

7/8-LPF FRQ - cutoff frequency: 30Hz - 800Hz / Off. 7/8-LPF TYPE - filter type. 7/8-LPF SLOPE - roll-off slope: 6 -48 dB per octave.

7/8 GAIN - level 7/8 channels, from -8 dB to 0 dB. 7/8 PHASE - electrical phase switching:0°/180°

# X'over reset

Resetting the crossover settings.



#### IMPORTANT!

Setting up delays starts with the speaker furthest from the listening position (usually the subwoofer).

The furthest speaker does not need any additional delay.
The remaining speakers should be adjusted according to the
difference between the distance from the furthest speaker and the distance
from the calculated speaker to the listening position.

For example: the distance from the listener to the subwoofer is 220 cm, the distance from the listener to the front left HF speaker is 80 cm. The delay for the left HF speaker channel will be: 220 cm - 80 cm = 140 cm. We enter the number 140 in the delay value of the left HF speaker channel.

Make the necessary calculations for all speakers, then make the settings in the AURA AUDIO app or in the receiver menu.

**Delay** - value for each channel.

Select the desired channel and set the required signal delay value. In MONO mode, the delay values for 7/8 channels will be adjusted synchronously.

Gain - signal level value for each channel.

Select the desired channel and set the required signal level. In MONO mode, the level values for 7/8 channels will be adjusted synchronously.

#### DTA reset

Reset delay settings.

# Delay units

Select unit of measurement: centimeters or milliseconds.

You can save 6 independent settings (presets) and quickly switch between them.

**IMPORTANT!** Settings are saved when battery power is disconnected.

- 1. Adjust the equalizer, delays and crossover parameters.
- 2. To save the current settings to memory location "1", quickly press the "1" button 3 times.
- 3. Change the equalizer, delays and crossover settings.
- 4. To save the current settings to memory location "2", quickly press the "2" button 3 times.
- 5. Press the "1" button 2 times quickly to recall the settings saved in "Preset 1" from memory.
- 6. Press the "2" button 2 times quickly to recall the settings saved
- in "Preset 2" from memory.

# Display settings

#### Color select

Setting the RGB backlight color.

All zone - select color for all 3 zones at once.

Zone 1, Zone 2, Zone 3 - choice of color for each of the 3 zones.

#### Dimmer

Backlight dimming settings, on/off, or choice of two dimming levels. For the function to work correctly, the orange wire (A6) must be connected to the +12 volt circuit when the side lights are on.

# Spectrum

Display frequency spectrum, on/off.

# Tuner settings

#### Local seek

Local Search On/Off.

# Stereo set

Stereo mode, on/off.

# Regional

Select broadcast region (Europe, USA, Asia, Russia).



#### RDS set

Enabling the text messaging system.

#### TA set

Traffic reports.\*

#### AF set

Transition to more stable frequencies.\*

#### EON set

Automatic switching to channels with traffic announcements.\*

#### Radio text

Displaying text information.

#### Pl regional

Display station name.

#### PTY search

Search by program type.\*

\*The function is not supported in Russia.

BLUETOOTH

#### Enable

Turning on/off BT.

# PIN-code edit

Changing the PIN code for pairing BT.

# MIC gain

Adjusting the microphone level BT.

System

# Language

Selecting the menu display language.

# Clock - clock setting

Clock format - selection of clock display format (12 / 24 hours).

Clock adjust - setting hours / minutes.

Data format - select date display format.

Data set - setting date values.

Time sync - exact time synchronization via RDS.

#### Beep - button sound

Enable / disable sound when buttons are pressed.

#### AUX IN

Enable/disable AUX source.

#### **SWC**

Programming regular steering wheel buttons.

Detailed description of the programming procedure on page 18.

# Car ACC - ignition lock type

Yes - set for the car with ACC position, the red power wire of the device is connected to the ACC position of the ignition switch.

No - set for the machine without the ACC position, the red power wire is connected to constant +12 volts.

The BT module and USB connector will be disabled when the device is turned off.

#### Animation - animation on display

Enabling and setting the delay interval before playing the animation on the device display: no / 15 / 30 sec. / 1 / 2 / 4 min.

#### Demo mode

Enable / disable demo mode.

#### Factory reset

Reset / return to factory settings.

# Version

Viewing the current software version (firmware).

#### Radio

# Storing and recalling radio stations

Press and hold one of the number buttons (1-6) to memorize the current radio station.

Press one of the number buttons (1-6) to recall the current radio station. It is possible to store 6 radio stations in each broadcast band.

# Range selection

Press the (18) **BAND** button to select the broadcast bandradio stations: FM1, FM2, FM3 (VHF), AM1, AM2.

# Automatic search for radio stations

Press the button (7)  $\bowtie$  or (5)  $\bowtie$  to quickly search for stations.



#### Automatic search and storage of stations

Press and hold the **SEARCH** button (8) for more than 2 seconds. The unit will quickly search and automatically store 18 FM and 12 AM radio stations with strong signals

#### Manual search for radio stations

Press the button  $(7) \bowtie or (5) \bowtie to change the frequency step by step.$ Hold down the button (7) ₩ or (5) ₩ to enter the auto tuning mode.

USB

Connect the USB drive to the port on the front panel of the device. Playback of supported file formats will start automatically. The USB port supports charging mobile devices. Charging current is up to 1A.

**IMPORTANT!** There are many free and other software on the market for encoding FLAC, Mp3 and WAV files, and depending on the encoding status and file format, there may be low playback quality or noise during playback. In some cases, playback is impossible.

Switching tracks
Press the button (7) \*\*\* or (5) \*\*\* to move to the previous ornext track.

#### Rewind

# Play/Pause

Press the button (15) >/II to stop playback.

Press again to resume playback.

# Scanning tracks

Press the (16) INT button to play in sequence for 10 seconds.every track. Click again to stop scanning.

# Repeat

Press the button (13) to select the repeat playback mode: Repeat folder - Repeat playback of all files in the current folder. Repeat one (repeat track) - repeat playback of the current file. Repeat all (repeat all) - repeat playback of all files on the media.

# Random play

Press button (14) to select random play mode:

Bandom folder / Bandom All / Bandom Off

#### Switching folders and tracks

Press the button (12)  $\checkmark$  or (11)  $\land$  to switch to the previous or next source folder. Press and hold the (12)  $\checkmark$  or (11)  $\land$  button to move 10 tracks backward or forward.

#### BLUETOOTH

#### Phone pairing

- 1. Turn on Bluetooth on your mobile device.
- 2. Find "VENOM-D862DSP" in the list of available BT devices and connect to it. PIN code for authorization: 1234.

**WARNING!** There is no need to pair with the **BLE** channel! This may lead to unstable operation of the device!

- If the connection is successful, the "BT" indicator on the receiver display will stop blinking and light up continuously.
- The audio signal from the mobile device (music and calls) will be transmitted to the car speakers.

# Outgoing call

Dial the subscriber's number on your phone.

The call will be made on speakerphone.

# Incoming call

When an incoming call comes in, the caller's number will be displayed on the receiver's screen. Press the button (18) ightharpoonup 
ightha

# **Ending call**

To reject an incoming call or end a conversation, press and hold the button (18) ?.

# Call to the last dialed number

Press and hold the button (18) on the receiver to call the last number in your phone's outgoing call list. Press the button (18) on the receiver to activate the Siri function.

# Switching between phone and speakerphone

During a call, press the button (18) ightharpoonup 
ightharpoonu

#### Volume control

Rotate the volume knob during a call to adjust the volume level.

Press the (10) MUTE button to mute the sound.



The VENOM-D41DSP receiver supports Bluetooth audio transmission protocol. After successfully pairing your mobile device with the receiver, you will be able to play music from your phone on the car audio system.

To switch tracks, press the buttons (7)  $\bowtie$  or (5)  $\bowtie$ .

To stop playback, press the button (15) ▶/Ⅱ.

AUX

You can connect an external source to the 3.5mm jack on the front of the receiver using an AurA AUX cable (sold separately).

Reset settings

Press and hold for 10 seconds. button (19) **RST** to reset the device to factory settings.

Software update

We are pleased to offer the option to update the firmware to bring you the best performance and the latest features for your device.

Please check the availability of the new software version on the website

Please check the availability of the new software version on the website www.aurael.ru

Phone app

Most of the device settings are available in the AurA Audio mobile app for Android or iOS

- 1. Install the AurA Audio app from Google Play or the App Store.
- 2. Connect your smartphone to the receiver via Bluetooth.
- 3. Launch the AurA Audio app to control the receiver.



AURA AUDIO APP



# Steering wheel buttons setup (Direct SWC)

This function can be implemented only in cars with resistive control buttons, the common wire of the buttons is connected to the car's "ground". For the correct operation of the steering wheel buttons, you must first connect the wires of the standard control panel.

#### Steering wheel button setup

The ground wire (WHEEL GND) of the standard control panel must be connected to the black wire "SWC ground", and the signal wires WHEEL KEY A and WHEEL KEY B must be connected to the wires "SWC K1" (brown/black) and "SWC K2" (brown), respectively.

The operating voltage range with the remote control buttons connected is from 0.3 to 3.3 V.

The minimum difference in operating voltages that are set at the remote control output after pressing the buttons must be at least  $0.3~\rm V.$ 

Otherwise, in some cases, the buttons may be perceived as one.

#### WARNING

The manufacturer does not guarantee the correct operation of the device with all car models and is not responsible for possible problems with the car or the device that arise in the event of incorrect connection of the device to the standard wiring of the car.

For the correct connection of the standard resistive remote control, consult with the official dealer of your car or contact a certified installation center.

#### Button setup:

- Select the SYSTEM menu.
- Enter the SWC section and select one of the two memory banks (SWC 1 or SWC 2).
- 3. Enter the ENABLE menu item and select YES.
- 4. Press the Back button and select PROGRAM. The display will flash PRESS KEY 1).

# Follow these steps:

- 1. Press the button on the steering wheel to assign a function to it.
- The display will flash CHOOSE KEY 1.
- 2. Select one of the buttons on the head unit to which you want to assign a function. If the assignment is successful, the display will flash PRESS KEY 2.
- 3. Repeat these steps (1-2) as many times as you want to assign functions to the buttons on the steering wheel.
- 4. Press the knob on the front panel to save the data.

The display will show SAVED x KEYS, then the unit will return to the SWC menu.

#### NOTE.

There are a total of 9 functions available for programming.

To disable the programmed button settings, enter the SWC menu and select the ENABLE option and set the value to NO.



Main

Operating supply voltage:

Fuse:

Maximum output power:

Rated output power: Speaker Impedance:

Frequency response:

Display viewing angle:

Audio signal input (AUX, stereo):

Line output (RCA):

RCA output level:

Maximum current consumption:

Mounting dimensions (W x D x H):

Temperature (working):

Humidity (working):

USB

Supported media: Supported formats:

File system:

USB stick:

ID3 Tag support:

Bluetooth

Version:

Frequency:

Radio FM. AM

Radio tuning memory:

FM frequency range:

VHF frequency range:

AM frequency range: Antenna impedance:

7 ti itorii id ii ripe

AUX IN

Audio input level:

DSP:

Crossover Equalizer

Phase rotation

Time delays

12 V (permissible range 9.6 – 15 V) 35 A 6 x 141 W (4 Ohms)

6 x 71 W (4 Ohms)

4 Onm 20 Hz – 20 kHz

vertical ±30°, horizontal ±15° one (on the front panel, 3,5 mm)

8-channel (4 pairs)

up to 6 V

182 x 159 x 53 mm from 0°C to +60°C

from 45% to 80%

USB

FLAC (16 bit), WAV, APE, AAC, MP3 FAT32

USB 2.0 / 3.0, до 256 Gb

English, Russian

5.1

A2DP, AVRCP, HFP 2,4 Ghz

18 FM, 12 AM 87.5 - 108.0 MHz

65 - 74 MHz 522 - 1620 GHz

75 Ohm

75 U

500 mV (max 2 V)

8 band, 10-12500 Hz, 6-48 dB/oct. 48 bands, 20-20000 Hz gain -9 Дб to +9 дБ, 0,1 dB step 0 / 180°

0-25 ms, 0-850 sm



# WARRANTY CARD

woder name	VENOM-D862DSP
Serial No.	
Buyer name	
Buyer address Phone No.	
Sales date	
Signature	
Seller name/stamp	



# TERMS OF WARRANTY SERVICE

The manufacturer guarantees the high quality and reliability of the products provided that the technical requirements described in

Operating Instructions. This warranty is issued for a period of one year from the date of purchase and is provided in the event that the product is found to be defective due to inadequate quality of materials or workmanship of the

Obligations under this warranty are performed on the territory of the Russian Federation by the manufacturer, selling organizations - authorized dealers of the manufacturer and service centers indicated on the manufacturer's website.

The product is not subject to warranty repair if it has the following features:

- 1. The fact that water or other liquids get inside the product;
  - 2. Incorrectly completed warranty card or its absence;
- Unqualified installation (connection of the product is not appropriate power section of wires, placement in place, hindering product cooling).
  - 4. Intervention in the design of the product.

In case of disputes for reasons not included in the above list, the decision is made by the Authorized Service Center after a technical examination.

Parts with a limited life span (batteries, fuse links, etc.) are not covered by this warrantv.

This warranty is not valid if the product is used for industrial purposes.

All terms of this warranty are in accordance with applicable consumer protection laws..

Additional information on the website www.aurael.ru

C€ EHI





AURA AUDIO APP



www.aurael.ru

