



INSTRUCTION MANUAL

DURAGON



9"/10.1" AV RECEIVER

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Warning & Precaution

To avoid risk of serious injury or possible violation of laws, please read the following thoroughly before installation or connecting.



This symbol means important ban. Failure to heed them can result in serious injury or death.



This symbol mean important instructions. Failure to heed them can result in injury or material property damage.



Having the wiring and installation done by expert.
The wiring and installation of this unit requires special technical skill and experience. To ensure the safety, always connect the dealer where you purchased this product to have the work done.



Do not watch video or operate the unit while driving.



Be sure to use specified accessory parts and install them securely.



Do not install in location which may hide vehicle operation, such as steering wheel or gearshift or cover of airbag .



Be sure to use the correct ampere rating when replace fuses. Failure to do so may result in fire of electric shorts.



Do not touch antenna or any plugs while in thunder storm to avoid electric shock.



Be sure to disconnect the cable from the negative battery terminal wile installation. Failure to do so may result in electric shock or injury due to electrical shorts.



Do not damage wiring. Failure to do so may result in electric shock or fire due to electrical shorts.



Be sure to connect 'Parking Break' lead so that the driver can not watch the video unless the vehicle is stopped. Failure to do so may result in traffic accident or violation of laws.



Do not install in locations with in high moisture or dusty. Moisture or dusty that penetrate into this unit may result in product failure.



Be sure to check the installation of antenna regular. Antenna dropping may result in an accident while the vehicle is running.

II PRODUCT FEATURES II

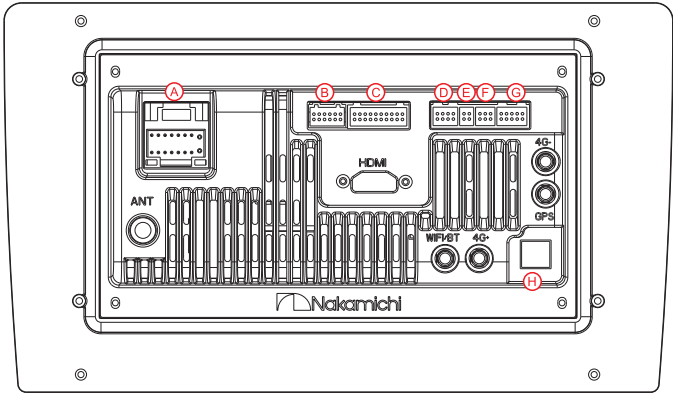
Hi-Fi Audio

- 5.1 Audio Pre-output
- DSD Audio Playback
- Hi-Res Audio Playback
- Lossless Music Playback
- Center Audio Output
- Subwoofer Audio Output
- Digital Audio: Optic Output
- Digital Audio: Coaxial Output
- Support Time Alignment Setup
- High-power ST7851
- Maximum power 4x50W
- Professional DSP
- Built-in 48-band EQ
- Q value Adjustment
- 20 Preset Sound Effects
- DTS Surround Sound
- Support TruBass
- Support Audio Focus
- Support Circle Surround
- Support Phantom Center
- 5 Preset DTS Processing
- Support 4CH,4.1CH,5.1CH

Configuration

- 2K IPS Screen
- 2.5D G+G Full Glass
- Qualcomm 8 core A53 CPU
- Android 9.0 Operating System
- 2+32G or 4+64G Large Memory
- Built-in 360 Panorama
- High Sensitivity Radio
- Support 4G Network
- AHD Camera Input
- Built-in Bluetooth
- HDMI Output
- Capacitive Screen
- 500 Lumens LCD Screen
- Built-in GPS
- Support Wifi
- USB Playback
- 2K Video Playback
- 1080P Video Playback
- Support ios Phone Mirrorlink
- Support Android Phone Mirrorlink
- Support Bluetooth Music Playback
- Support Picture-in-picture Playback

WIRING CONNECTION



Interface

- A: Power Supply
- B: 360 Panorama
- C: Input/Output/4G SIM
- D: Audio Output
- E: 4P USB1
- F: 6P USB2
- G: Camera Input
- H: Optical Output

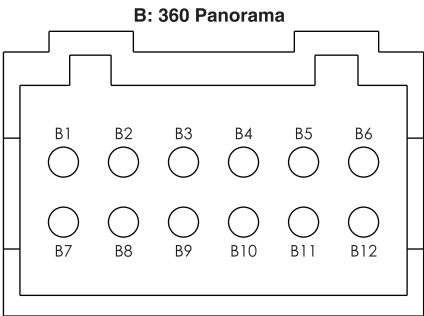
A: Power Supply	
Color	Name
Black	Ground wire
Yellow	Battery wire
Red	Ignition wire
Orange	Lamp control wire
Green/White	Reverse wire
Yellow/White	Steering wheel control wire 1
Orange/White	Steering wheel control wire 2
Blue	Amplifier/Automatic antenna
Gray/black	Front right speaker-
Gray	Front right speaker+
Green/Black	Rear left speaker-
Green	Rear left speaker+
White/Black	Front left speaker-
White	Front left speaker+
Purple/Black	Rear right speaker-
Purple	Rear right speaker+

C: Input/Output/4G SIM		
Label	Color	Name
Video In	Yellow	Video Input
Left AUX	Red	Audio Left Input
Right AUX	White	Audio Right Input
Sub Out	Green	Audio Subwoofer Output
FR Out	Red	Audio Front Right Output
FL Out	White	Audio Front Left Output
SIM	Black	4G SIM Card
MIC	Black	External MIC interface

D: Audio Output		
Label	Color	Name
CAN_ TX	Green	Can bus TXD
CAN_ RX	Green/Black	Can bus RXD
Coaxial Out	Green	Coaxial Output
RR Out	White	Audio Rear Right Output
RL Out	Red	Audio Rear Left Output

G: Camera Input		
Label	Color	Name
BRAKE	Pink	Brake Detection
Back Video In	Yellow	Reversing Camera Input

B: 360 Panorama			
Pin	Name	Pin	Name
B1	Left Turn Detection	B7	Right Turn Detection
B2	Ground	B8	Front Camera Input
B3	Ground	B9	Right Camera Input
B4	Ground	B10	Rear Camera Input
B5	Ground	B11	Left Camera Input
B6	Power +4.3V	B12	Power +4.3V



II ACCESSORY LIST II

Check and identify the contents of your package:

- | | |
|---------------------------------|---------------------------------|
| 1. 16Pto ISO Cable × 1pc | 6. 8P Audio Output Cable × 1pc |
| 2. GPS Antenna × 1pc | 7. 4P USB Cable × 1pc |
| 3. 4G Antenna × 2pcs | 8. 6P USB Cable × 1pc |
| 4. Wifi Antenna × 1pc | 9. 10P Camera Input Cable × 1pc |
| 5. 20P Input/Output Cable × 1pc | 10. User Manual × 1pc |

II FRONT PANEL II



Function

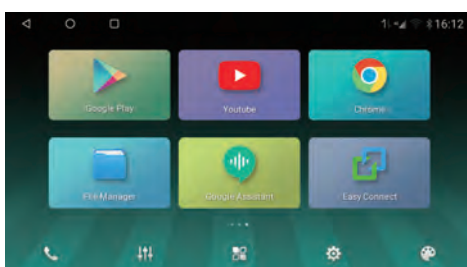
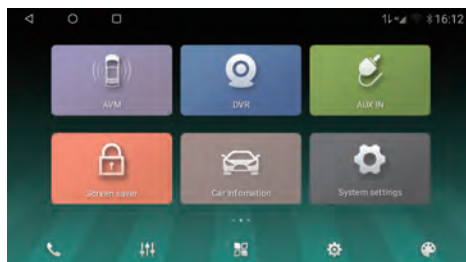
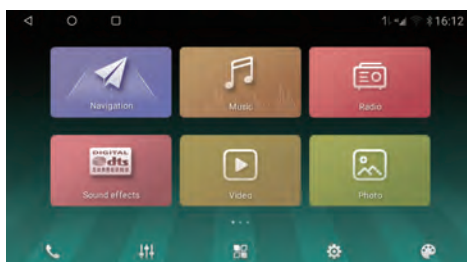
Operations & Controls

- | | |
|-----------|---|
| 1. MIC | Microphone: Voice receiving position |
| 2. RST | Press with a pointed object (such as a ball point) to reset the unit to its initial setting by the factory (default stage). |
| 3. Power | In the power-on state:
Press to Mute.
Press and hold for more than 5 seconds to turn off the screen. |
| 4. Home | Press to enter main menu. |
| 5. Return | Press to back to previous. |
| 6. Volume | Short press to increase volume. |
| 7. Volume | Short press to decrease volume. |

FUNCTIONS APPLICATION

Home Page Operation

Press [⏏] on the panel to enter the homepage, the homepage is displayed as follows:



- ⏏ Click to return
- 🏠 Click to home
- 🗄 Click to close applications
- 📶 Wifi connection information
- 📶 Bluetooth connection information
- 📍 Click to GPS
- 📶 Click to Bluetooth
- 🗄 Click to view all the applications
- ⚙ Click to car setup
- 🖼 Click to wallpaper replacement

Home Icon Replacement And Movement



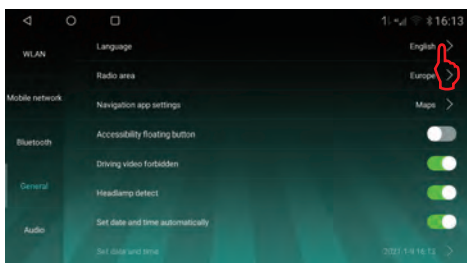
Duragon series support:

1. Change the position of the icon on the main interface.
2. Support moving the icons of the secondary interface to the homepage.

The operation is as follows:

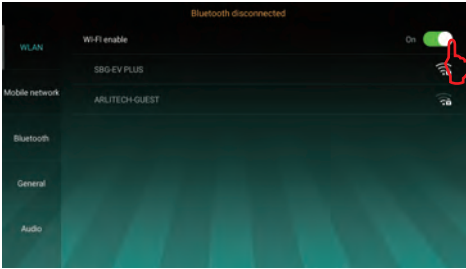
1. Press and hold the icon that needs to be moved.
2. Drag the icon to move it to the desired position.

Language Selection



1. Press [⏏] on the panel to enter the homepage.
2. Click [⚙] to enter the setting interface.
3. Click [General] to select [Language].
4. Select the corresponding language.

Wifi Connection



1. Press [△] on the panel to enter the homepage.
2. Click [⚙️] to enter the setting interface.
3. Click to [WLAN] Select WIFI enable as [ON], Select the WIFI to be connected.
4. Enter the password.

Remarks: The WIFI icon [📶] will be highlighted after successful connection

Volume Setting



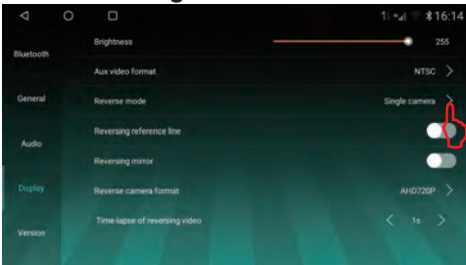
Duragon series support:

Phone volume, music volume, navigation volume, Separate settings for the volume when reversing and when navigating.

The operation is as follows:

1. Press [△] on the panel to enter the homepage.
2. Click [⚙️] to enter the setting interface.
3. Click [AUDIO] to enter the audio setup.

Camera Settings



Duragon series support:

360 panorama, CVBS camera, AHD 720P camera, the system defaults to AHD 720P.

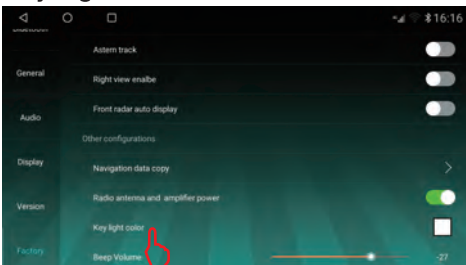
For cameras of other specifications:

1. Press [△] on the panel to enter the homepage.
2. Click [⚙️] to enter the setting interface.
3. Click to [DISPLAY] select [Reverse mode].
4. Select the corresponding camera mode.

Remarks:

When the selected mode does not match the camera, there will be no reversing display.

Key Light Color



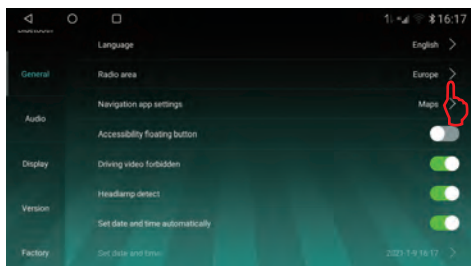
The Duragon series supports multiple lighting colors. The operation is as follows:

1. Press [△] on the panel to enter the homepage.
2. Click [⚙️] to enter the setting interface.
3. Click [Version] to select [Factory settings].

Password is :8888

4. Click [key light color] to change light color.

Radio Area Selection

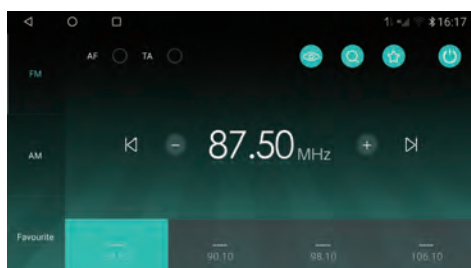


1. Press [△] on the panel to enter the homepage.
2. Click [⚙️] to enter the setting interface.
3. Click to [General] select [Radio area].
4. Select the corresponding radio area.

Remarks:

When the radio area is not correct, the radio station cannot be listened to and the reception is reduced.

Automatically Search|manual Search And Storage



1. Press [△] on the panel to enter the homepage.
2. Click to [📻] to enter the radio interface.

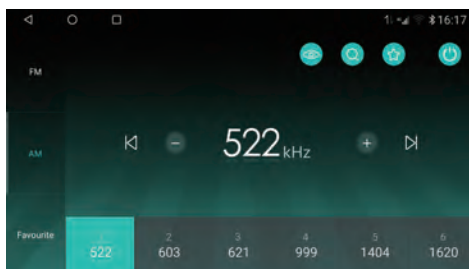
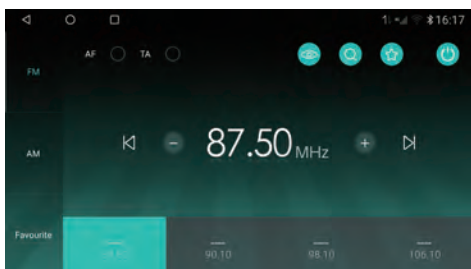
Automatically search:

Click to [🔍] to the automatic search, the radio stations that have been searched will be automatically saved to the number list below.

Manual search and storage:

Click [⏮] or [⏭] to the manual search, Press and hold [☆] to add to radio favorites.

Radio Interface



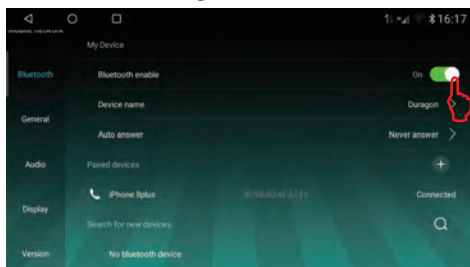
- FM** FM band
- AM** AM band
- Favourite** Listen to favorite radio
- ⏮** Search backward
- ⏭** Search forward

- 🔊** Stereo switch
- 🔍** Automatically search
- ☆** Add to favorite stations
- 🔌** Close Screen
- ➡** Increase frequency forward
- ⬅** Increase frequency backward

RDS Function

RDS will allow you to display information such as traffic status, radio station name and more. The unit can automatically switch to the strongest station based on the similar program.

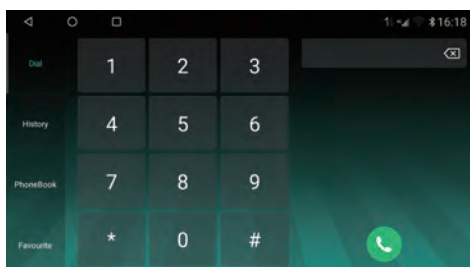
Bluetooth Pairing Connection



The first time pair mobile phone with AV receiver, please follow below steps:

1. Press [△] on the panel to enter the homepage.
2. Click [⚙️] to enter the setting interface.
3. Click to [Bluetooth] select Bluetooth enable [ON].
4. Turn on the phone's Bluetooth to search: Bluetooth device: Duragon.
5. After the search is successful, click the phone and host to confirm, the pairing is successful.

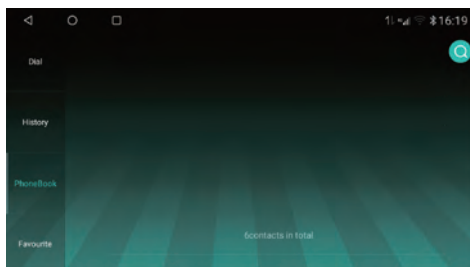
Bluetooth Call



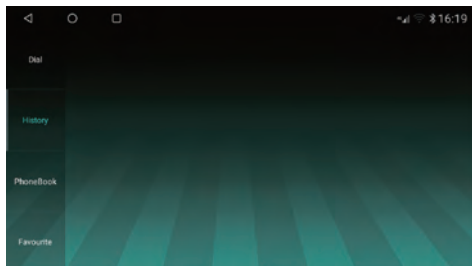
1. Press [△] on the panel to enter the homepage
2. Click to [📞] to enter the bluetooth call interface.

Dial	Dialpad
History	History call record
PhoneBook	Phone book
Favourite	Favorite contacts
	Backspace
	Dial

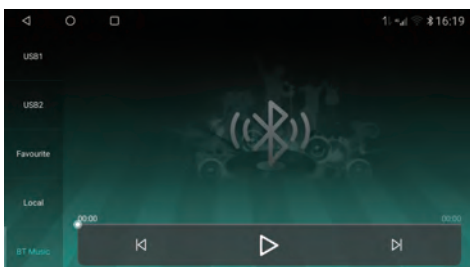
Phone Book



History Call Record



Bluetooth Music Playback



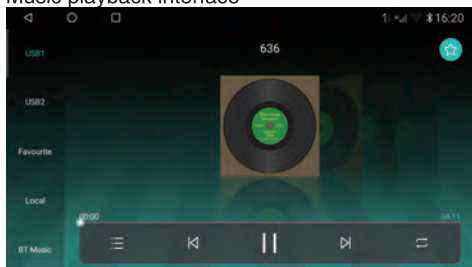
1. Press [△] on the panel to enter the homepage.
2. Click to [🎵] to enter the music interface.
2. Click to [BT Music] to enter the bluetooth music playback.

	Previous track
	Play/Pause
	Next track

Music Playback

1. Press [⏏] on the panel to enter the homepage.

Music playback interface

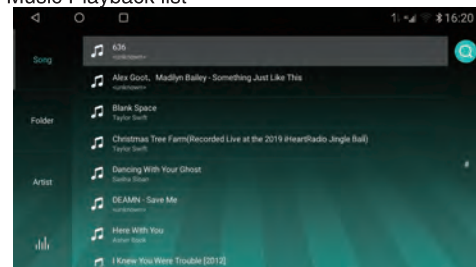


- USB1 Playback USB1 music
- USB2 Playback USB2 music
- Favourite Playback favourite music
- Local Playback local music
- BT Music Playback bluetooth music

- [List Icon] Playback list
- [Previous Icon] Previous track
- [Pause Icon] Play/Pause
- [Next Icon] Next track
- [Repeat Icon] Repeat Playback

2. Click to [🔍] to enter the music interface.

Music Playback list



- Song Show song list by name
- Folder Show song list by folder
- Artist Show song list by artist
- [Status Icon] Playback status
- [Search Icon] Search track

Video Playback

1. Press [⏏] on the panel to enter the homepage.

Video playback interface



- [Previous Icon] Previous Video
- [Next Icon] Next video
- [Pause Icon] Play/Pause
- USB1 Playback USB1 video

2. Click to [📺] to enter the video interface.

Video Playback list

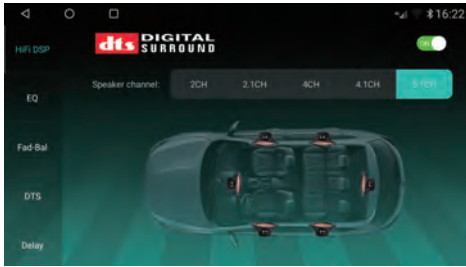


- USB2 Playback USB2 video
- Local Playback local video

Picture Playback

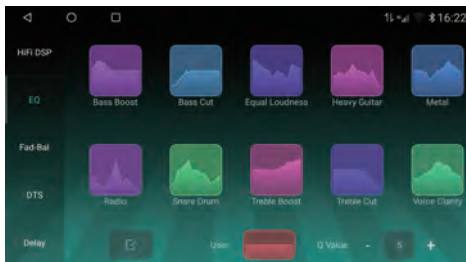


HiFi DSP



1. Press [△] on the panel to enter the homepage.
2. Click [III] to enter the sound effects interface.
3. Click [HiFi DSP] to enter the HiFi DSP interface.
4. Select the Speaker channel.

EQ Selection



1. Press [△] on the panel to enter the homepage.
2. Click [III] to enter the sound effects interface.

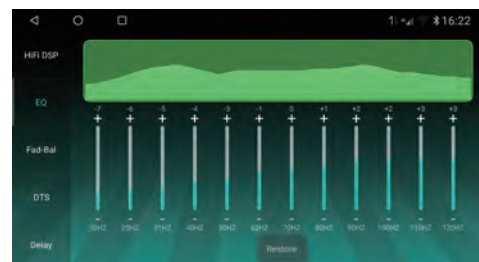


3. Click[III EQ] to enter the EQ selection interface.

EQ Settings

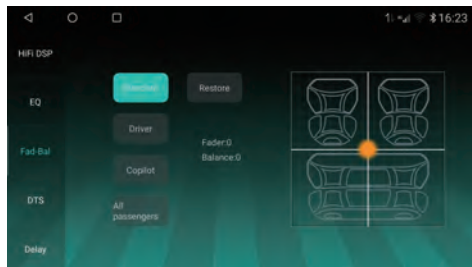


1. Press [△] on the panel to enter the homepage.
2. Click [III] to enter the sound effects interface.



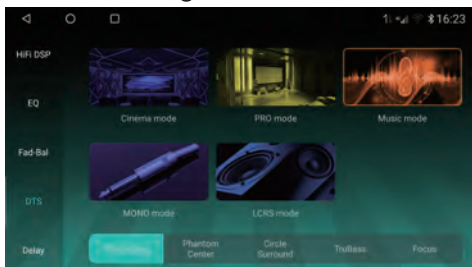
3. Click[III EQ] to enter the EQ interface.
4. Click [⌘] to enter the EQ Settings

Fader and Balance Adjustment

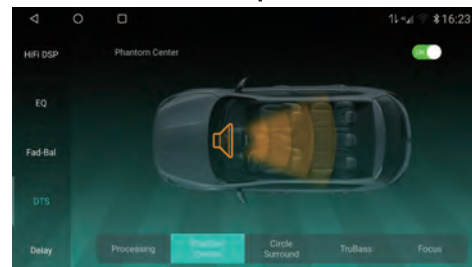


1. Press [△] on the panel to enter the homepage.
2. Click [HIFI] to enter the sound effects interface.
3. Click [Fad-Bal] to enter the Fader and Balance interface.

DTS Processing



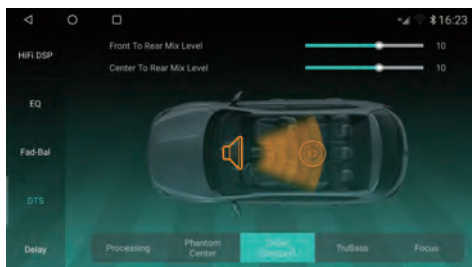
Phantom Center Setup



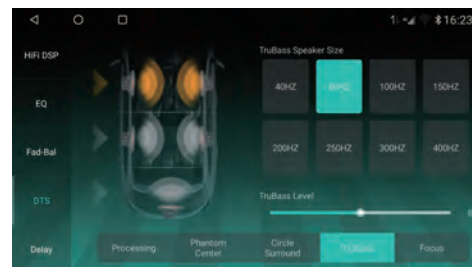
1. Press [△] on the panel to enter the homepage.
2. Click [HIFI] to enter the sound effects interface.
3. Click [Processing] to enter the processing select.

1. Press [△] on the panel to enter the homepage.
2. Click [HIFI] to enter the sound effects interface.
3. Click [Phantom Center] to enter the phantom center setup.

Circle Surround Setup



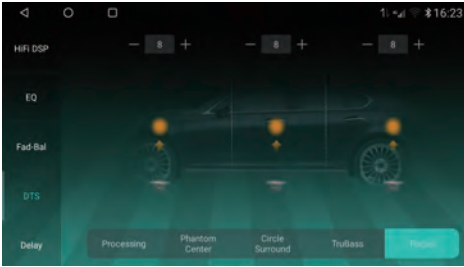
TruBass Setup



1. Press [△] on the panel to enter the homepage.
2. Click [HIFI] to enter the sound effects interface.
3. Click [Circle Surround] to enter the circle surround setup.

1. Press [△] on the panel to enter the homepage.
2. Click [HIFI] to enter the sound effects interface.
3. Click [TruBass] to enter the TruBass setup.

Focus Adjustment



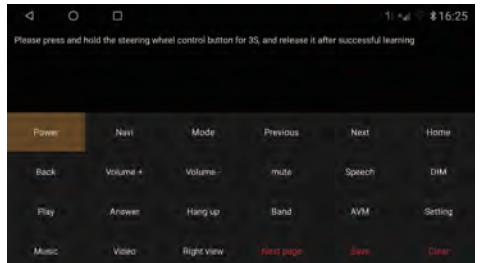
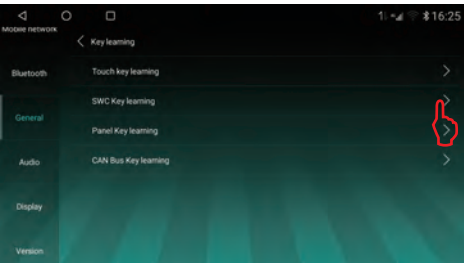
1. Press [△] on the panel to enter the homepage.
2. Click [≡] to enter the sound effects interface.
3. Click [Focus] enter the focus adjustment.

Time Delay Adjustment



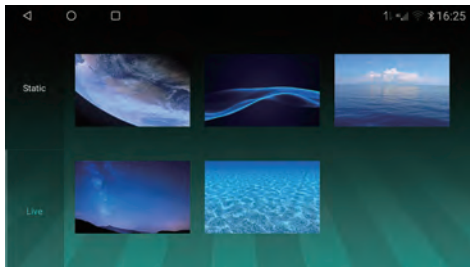
1. Press [△] on the panel to enter the homepage.
2. Click [≡] to enter the sound effects interface.
3. Click [Time delay] to enter the focus adjustment.

Steering Wheel Learning



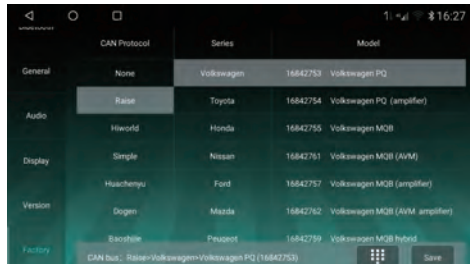
1. Press [△] on the panel to enter the homepage.
2. Click [⚙] to enter the setting interface.
3. Click [Key learning] to enter the key learning mode selection
4. Click [SWC Key learning] to enter the Steering wheel learning
5. Click the key function of the required learning.
6. Press and hold the steering wheel control button for 3S, and release it after successful learning

Screen Saver



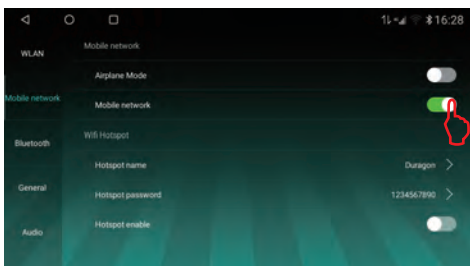
1. Press [△] on the panel to enter the homepage.
2. Click [Screen Saver] to enter the screen saver setting.

Can Bus Settings



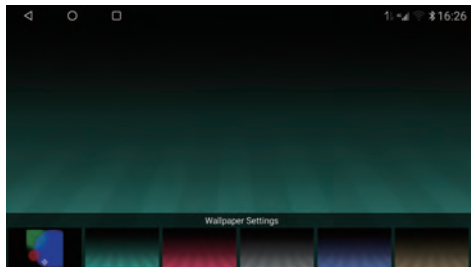
1. Press [△] on the panel to enter the homepage.
2. Click [⚙️] to enter the setting interface.
3. Click [Version] to select [Factory settings]. Password is :8888
4. Click [Car Model] to enter the car model selection.
5. Click [Save] set successfully.

Wifi Hospost Settings



1. Press [△] on the panel to enter the homepage.
2. Click [⚙️] to enter the setting interface.
3. Click [Mobile network] to enter the open mobile network.

Wallpaper Settings



1. Press [△] on the panel to enter the homepage.
2. Click [🖼️] to enter the wallpaper settings.

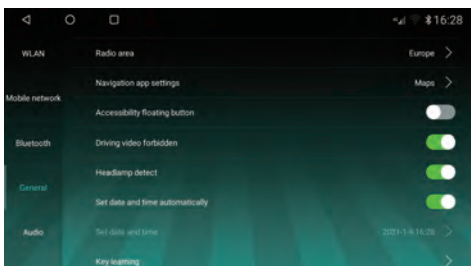
Factory Reset



1. Press [△] on the panel to enter the homepage.
2. Click [⚙️] to enter the android settings.
3. Click [System] to enter the system settings.
4. Click [Reset options] to Select the data to be reset.

Remarks: All data will be cleared after reset.

Other Settings



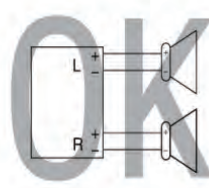
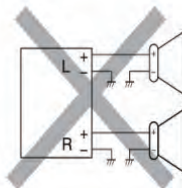
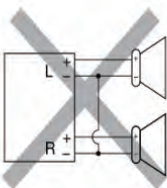
1. Press [△] on the panel to enter the homepage.
 2. Click [⚙️] to enter the setting interface.
- Other settings: include Navigation app settings, Accessibility floating button, Driving video forbidden, Headlamp detect, date, Set date and time automatically, Set date and time, Key warning.

II TROUBLESHOOTING II

Problem	Cause	Correct action
Can not power on	Check fuse	Change fuse same as the old one
	Some factors cause MPU wrong operation	Press RET button on the panel by penpoint, then, power on
Radio reception is not good	Weak signal	Move the car to another place, then research
GPS signal is weak		
4G signal is poor		
Can not watch image during driving	It's not allowed to watch image during driving	Park the car in a safe place, put the car stall in "P" position, pull up the hand brake, parking brake wire must be grounded.
Slow response	Not enough storage space	Uninstall APK or clear FLASH space
	Open too many APP	Click [□] in the upper left corner to close some apps

II PRECAUTIONS ON POWER SUPPLY AND SPEAKER CONNECTIONS II

- Do not connect the speaker leads of the power cord to the car battery otherwise, the unit will be seriously damaged.
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.



|| SPECIFICATION ||

General

Operation Voltage: 14.4V(10.5-16V)
Installation Size: Thickness: 42mm
Operating Temperature: -10°C - +60°C
Storage Temperature: -20°C - +70°C
Net Weight: 9", 748g / 10", 851g

System

Operating system: Android 9.0
DDR : 2GB or 4GB
Flash : 32GB or 64GB

Radio

FM Frequency Range: 87.5-108.0MHZ
MW Frequency Range: 522-1620KHZ

Bluetooth

Communication System: BT4.0+EDR
Output: BT Standard Power 2 Class
Max Communication Range: 5m
Frequency Band: 2.4GHz

USB Interface

USB: Readable/ Chargeable
(5±0.25V/1A)

Audio

Max Power: 4X50W
Front Output(V): 4V/10KΩ
Pre-output impedance: ≤600Ω
Speakers impedance: 4-8Ω

TFT Screen Item

Size: 9.0" / 10.1"
Display Resolution: 1280x720
Contrast ratio: 500
Brightness: 500nit

Video

External Video Input System:
NTSC/PAL/SECAM
External Video Input: 1VP-P/75Ω

Video Format

H264/ MP4/ AVI/ MKV/ FLV

Audio Format

DSD/MP3/APE/AAC/FLAC

Note: Specification and design; functions and features; unit illumination; colour and display segment are subject to change without prior notice. Photos and drawings on gift box or operation manual might be varied from the exact unit. Depends on the input devices operation might be varied from the operation manual described.

