GRUNDIG

GX-3900

User Manual

6.8"
In Car
Display
Audio

CE Statement:

Do not use the device in the environment at too high or too low temperature, never expose the device under strong sunshine or too wet environment.
The suitable temperature for the product and accessories is -20°C~70°C.

RF exposure information: The Maximum Permissible Exposure (MPE) level has been calculated based on a distance of d=20 cm between the device and the human body.
To maintain compliance with RF exposure requirement, use product that maintain a 20cm distance between the device and human body.

This product can be used across EU member states.

EU Regulatory Conformance

Hereby, Grundig Car Radio Ltd declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

CE

FCC Statement:

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.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

NOTE: 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.

Federal Communication Commission (FCC) Radiation Exposure Statement When using the product, maintain a distance of 20cm from the body to ensure compliance with RF exposure requirements.
FCC ID: 2AYZB-GX3900

IC Statement:

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.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps.

IC: 26996-GX3900

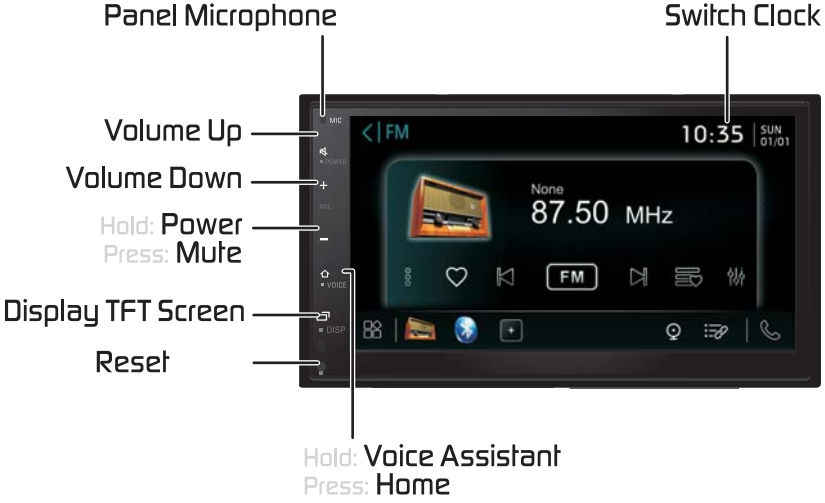
Initial Setup

Please select the suitable Country Area/Language, Tap **Finish** button to confirm.

TIPS Perform this setup when you use this unit first time.

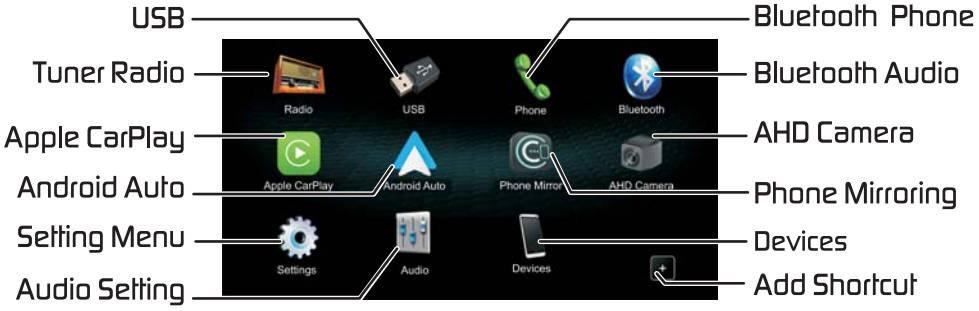
Overview Of The Unit

◆ Functions of the Buttons on the Head Unit

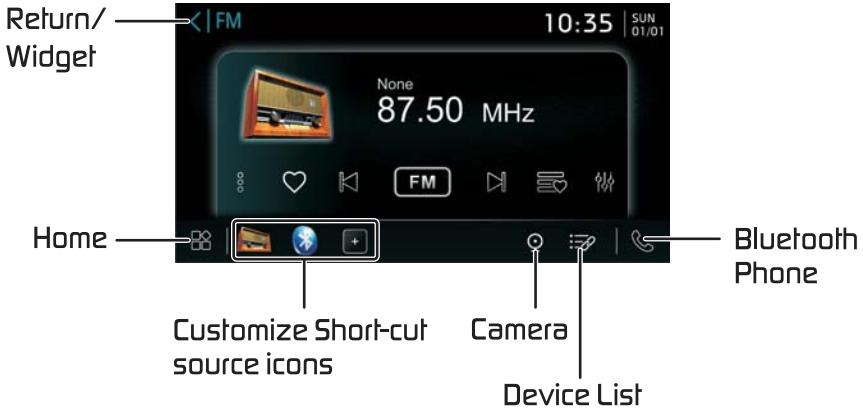


Overview Of The Unit

◆ Home Screen Descriptions



◆ Shortcut icons Descriptions



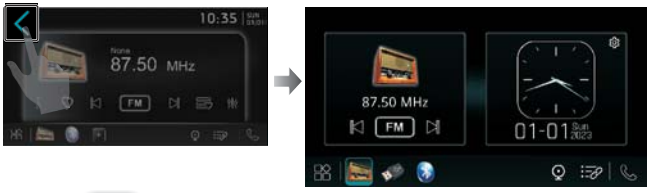
Overview Of The Unit

◆ Shortcut

Customize Short-cut source icons on playback screen.

1. On Home / Media playback mode, Tap + to enter Shortcut menu.
2. Tap the source icons which you want add/delete the shortcut
3. Tap returns to the previous item

◆ Widget



1. Tap to display Widget
2. Tap enter to select the Clock Widget mode, tap to exit.

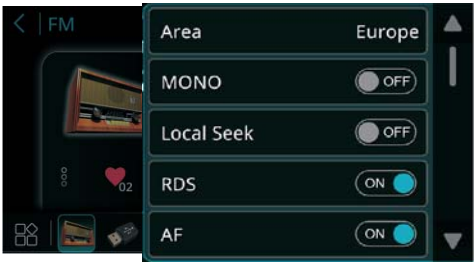
3. Tap returns to now Playing mode

Radio Operation

◆ Radio Basic Operation

1. Displays the information of the current station
2. To store the faviate station
3. Displays the Radio Setup screen
4. Switches the FM/AM band
5. Tunes in a station with good reception automatically
6. To access into the audio mode
7. Recalls the memorized station.
   (When tap and hold to stores the current receiving station in memory.)

◆ Radio Setup



Item	Selectable setting	
Area	This option allows you to select the appropriatefrequency spacing for your area: USA\Latin\Europe\Russia\Asia\Middle East\Australia\HongKong\Japan\Brazil	
MONO	Select the Monaural reception.	
Local Seek	◆ ON: only stations with strong signal can be broadcast. The Local indicator will light up. ◆ OFF: Stations of both strong and weak signals can be broadcast.	
RDS	Turn On or Off the RDS function.	
	AF	When station reception is poor,automatically switches to the station thatis broadcasting the same program over the same Radio Data System network.
	TI	You can listen and watch the traffic information automatically when a traffic bulletin starts.
	CT	Synchronizing the Radio Data System station time data and this unit's clock.
	PI Seek	Search a station of the selected program type.
	PTY	Select a program type from the list.

USB Media Operation

◆ Control the music you are listening to on the source control screen

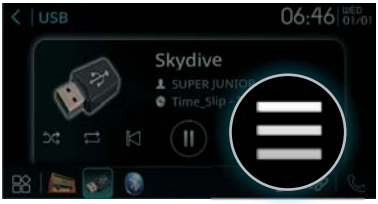
1. Tap repeatedly to Random playback mode
2. Tap repeatedly to Repeat playback mode
3. Play/Pause
4. Displays the information of the current file
5. Searches the previous/next content. Tap and hold to fast forward/fast backward
6. To access into the audio mode
7. Displays playback contents list

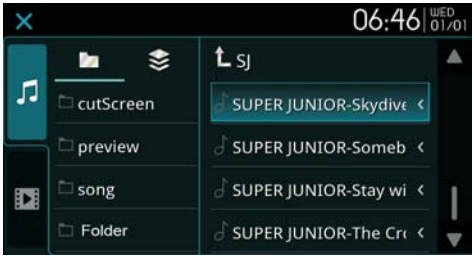
◆ For Video playback

8. Play/Pause
9. Searches the previous/next content. Tap and hold to fast forward or fast backward
10. [NORMAL]/[16:9]/[4:3] : Select a screen mode
11. Adjust image quality in video screen (Brightness/Contrast/Colour/Tint)
12. Searches file

Video Playback

◆ Selecting A Track In A List (Searches File)





1. Select whether you search by audio files / video files
2. Tap to moves to the upper hierarchy.
3. Tap the desired folder.

   when you tap a folder its contents are displayed.
4. Tap desired item from the content list, will play starts automatically

Bluetooth

This device bluetooth system can support dual phone connection.
The method of pairing and connecting with the blue bud system is as follows:

Pairing the Bluetooth device

1. Turn on the Bluetooth function on your Phone.
2. Search the unit (GX3900) from your phone.
3. Operate your device according to the displayed messages.

   - Confirm the request on the device.

   - If a PIN code is required, Enter the PIN code (0000).
   - Phone number appears when the Bluetooth phone is connected.

Bluetooth Settings

1. Tap to access Settings Menu.
2. Tap to display the Device settings mode

   - **Phone Device**
     Connect the Bluetooth device
   - **WLAN**
     Connect to the network, such as connecting this device to a router or hotspot
   - **Phone Connectivity**
     To adjust the device connectivity settings
   - **Car WIFI Info**
     You can display the same screen of the Android device on the monitor of the unit using the Wireless Mirroring function of the Android device.
     To display the device address, password

Bluetooth Settings

◆ Connect the Bluetooth device

1. Tap Paired on the Device Setup screen
2. Tap the name of the device you want to connect / delete.

Disconnect : To Connect / Disconnect the registered Bluetooth device
Disconnect : To delete the registered Bluetooth device

3. set each profile as follows
   - : Turn off the Phone mode
   - : Turn off the Bluetooth Audio playback
   - : Turn off the Phone Mirror mode
   - : Turn off the Android Auto mode
   - : Turn off the CarPlay mode

◆ Change the device name

1. Tap INFO access into device information screen
2. Tap [BT Device Name], the change device name screen appears.

- : Tap input the device name
- : Tap to delete the input
- : Tap to confirm the input

TIPS

- Tap return to previuos items
- Tap on the Home or tap on playback / phone mode, to quicky access into the [Phone Device] menu.

Bluetooth Audio Operation Description

1. Tap repeatedly to Repeat playback mode
2. Tap repeatedly to Random playback mode
3. Play/Pause
4. Displays the information of the current file
5. Searches the previous/next content. Tap and hold to fast forward/backward
6. To access into the audio mode
7. Displays playback contents list

TIPS

When connecting two phones at the same time, tap access into [Phone Device], tap displays the device you want to playback.

Making A Call

: call by entering a phone number

: Call using call records (Incoming Calls; Outgoing Calls; Missed Calls)

: Call using the phonbook

: To switches the speaking voice output between smartphone and speaker

: To delete the last entry

: Display the shortcut

: Access into the Bluetooth device mode

TIPS

When you connect two smartphones, tap Honor 9 iPhone 6 to select the smartphone you want to use.

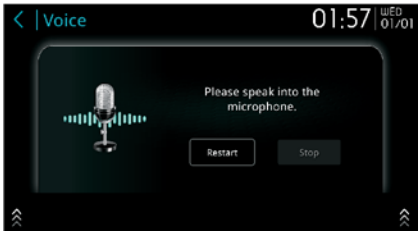
Making a call

◆ Call using the phonebook

1. Tap will start downloading the Phonebook.
2. Select the person you want to call from the list.
3. Select the phone number from the list.

TIPS Tap to select display the phonebook list by Name.Surname N /Surname.Name S

◆ Voice recognition



Tap access the voice recognition function of the phone connected to this Car AV System.

TIPS
- This function must be operated in a state before connection Bluetooth
- You can use voice recognition function by press and hold on the front panel.
- The Voice function is dependent on mobile phones, some Android phone don't have this function.

Receive the call

1. Tap to answer a phone call or to reject an incoming call.

2. When two phones receive the call at the same time, tap answering a call，the other phone will continue to wait.

3. During a talking, the other phone will reminder waiting, Tap to answer, and the first phone talking will automatically hang up the call.

◆ Call Waiting

1. When you receive a call while talking on another call, you can answer the newly received call by taping . The current call is on hold.
2. When you tap , the current call will end and switch to the call in hold.

Smart phone connectivity gives phone users an incredibly intuitive way to make calls, use maps, listen to music and access message with just a word or a touch.

Wireless Mirroring Operation

You can display the same screen of the phone on the monitor of the unit using the Wireless Mirroring function of the device.

◆ Select a Device Mode

1. Tap access into Phone Mirror menu

2. Tap WiFi-Android Phone / WiFi-iPhone to select a device mode

◆ Install a APP

1. In Phone Mirror menu to select you want to mirror the device mode
2. Tap Install MirrorAPP to select the installation the phone mirror APP method

3. If you have install the phone mirror APP, tap Connect MirrorAPP to select the connect MirrorAPP method to operation this function.

Wireless Mirroring Operation

◆ Getting Start

1. Operate your device to activate the Wireless Mirroring function, then connect to this unit.
2. Select the (GX3900_WF04add9) as the network to use, and input the password (AbcdeF12345) to activate the Wireless Mirroring function.
   When the connection is established, then the same screen displayed on the phone device is displayed.

TIPS

Tap on SETUP mode access into the Device menu, tap

to view WiFi information.

◆ Sync smartphone photos as wallpaper

"MirrorAPP" allows you to operate your smartphone safely while driving and sync your favorite photo to device as wallpaper from smartphone.

1. Turn on the Phone Mirror mirror function on your Phone.
2. Tap get into Sync photo menu.
3. Tap Select Photo to select you want to set background image.
4. You can select the background image from From Photo / Take a picture.
5. Tap Save to saved the image.
6. Tap Sync to device to sync the photo to device as wallpaper from smartphone.

TIPS

- Operating this function before, please make sure that the phone and the device are connected.
- The Sync smartphone photos as wallpaper function cannot be used in iPod mode.
- MirrorAPP+ standby timeout more than about 4 minutes (Determined according to different mobile phone system), you must be turn off MirrorAPP+, restart again can be use the Sync to device function.
- under the System Settings on this device, tap [Reset Wallpaper] to reset wallpaper.

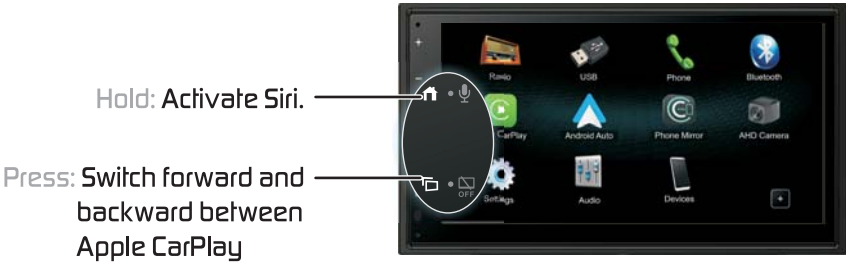
About Apple CarPlay

CarPlay is a smarter, safer way to use your iPhone in the car. CarPlay takes the things you want to do with iPhone while driving and displays them on the screen of the product.You can get directions, make calls, send and receive messages, and listen to the the music from iPhone while driving. You can also use Siri voice control to make it easier to operate iPhone.
For details, see: http://www.apple.com/ios/carplay/

◆ Settings of Apple CarPlay

1. You can adjust the Driver Seat is show on left or right as below:

◆ Operation button of Apple CarPlay



◆ Operation button on CarPlay Home

About Android Auto

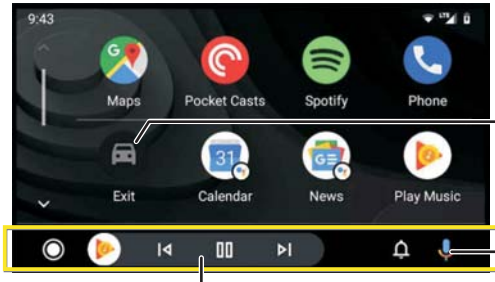
Android Auto enables you to use functions of your Android device convenient for driving. You can easily access route guidance, make calls, listen to music, and access convenient functions on the Android device while driving.
For details about Android Auto, visit the below adress:
https://www.android.com/auto
https://support.google.com/androidauto.

◆ Operation button of Android Auto

Hold: Activate Siri.

Press: Switch forward and backward between Android Auto

◆ Operation button on Android Auto Home

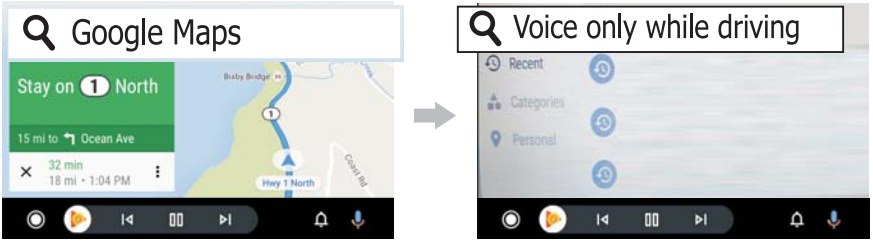


Return to Car Home

Google Assistant

Application/information buttons
Starts the application or displays information

◆ Voice only while driving



TIPS When you use handwriting, you must engage parking brake.

You can adjust various settings such as Audio balance or subwoofer level.

Tap on Home access into Audio Setting mode.

◆ Gesture EQ

- Use the fingers biasing to customize the gesture EQ, tap on User1 User2 User3 to select gesture personalized audio.
- Tap to restore factory default values.

TIPS When adjusting the Gesture EQ, please start with the interface edge!

◆ X-Bass

Tap to Set the amount of bass boost, and set the amount of boost of low and high tones

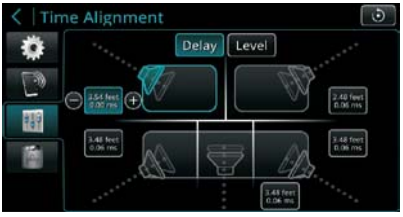
◆ Gesture EQ

Tap on to select a preset EQ, tap on resume to factory default value.

◆ Virtual Subwoofer

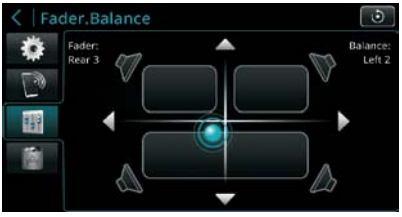
Turn the Rear Speakers to Virtual Subwoofer. Enjoy the powerful Bass without install any real subwoofer.

◆ Time Alignment



- Tap **Delay** to adjust the delay time of the selected speaker
- Tap **Level** to adjust the sound level of the selected speaker.

◆ Fader . Balance



- [Fader]: Adjust the front and rear volume balance.15(front) to 15(rear)
- [Balance]: Adjust the left and right volume balance.15(right) to 15(left)

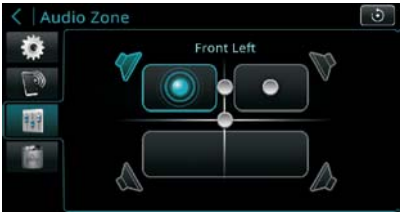
◆ Source Gain

Finely adjust the volume of the current source to minimize the difference in volume between different sources.

◆ Cross Over

- Tap **Front** to set the virtual tweeter when you are selecting front speakers.
- Tap **Rear** to switch Front/Rear high pass filter function.
- Tap **Subwoofer** to switch Subwoofer low pass filter transfer function.

◆ Audio Zone



Select the preset listening zone to fit with prefect listening position

Tap access Settings Menu to select the item to be adjusted.

TIPS Some of the setting you may interest to know.

General Setup

Tap General Setup access into General Setup Menu to set the below items:

◆ Beep Tone

Tap to activate the keyboard sound.

◆ Language

Tap to select the Language.

◆ Default Volume

This function allows to change the Default Volume Level.
The default volume level is 15

TIPS
- The volume is over than the default level 15, When turn ACC/Power Off and Restart, the volume will be default level 15.
- The volume is less than the default level 15, When turn ACC/Power Off and Restart, the volume will be kept at the current level.

Time Setup

Tap Time Setup access into Time Setup Menu to set the time/date:

◆ Clock Mode

Tap to adjust the clock.

◆ Time/Date

Tap ◀ ▶ to set the Time/Date.

SWC Custom

Tap SWC Custom access into SWC Custom mode to set the desired function in the steering remote controller.

- Select the function you want the Steering Remote to learning

- Press and hold the same function button on the Steering Wheel Remote until is displayed.

TIPS
- Tap to cancel or stop the current button learning
- Tap to reset all the SWC Learning records.

Parking Camera

Tap Parking Camera access into set the below items:

◆ Camera In

Tap into the Camera IN mode selects [Rear Camera]/[DVR] mode, then activate the selection function

◆ AHD Camera Audio

Turn On / Off the AHD Camera audio function.

Theme

Tap Theme access into Theme mode to set Wallpaper / Dimmer.

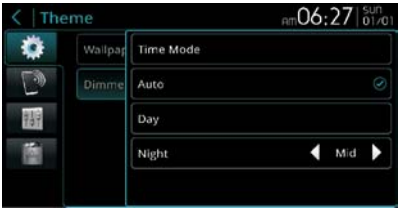
◆ Wallpaper

Tap into the Wallpaper mode, can set the background imgae.

- [Photo from Phone]: This function supports sync photos from phone.
- [Default]: This function allow select the background from default.

◆ Dimmer

Tap into the Dimmer mode, can set the demonstration:



- [Time Mode]: Adjust the dimmer according to the time mode
- [Auto](Default): To dimmer the display automatically when you turn lights on.
- [Day]: adjust brightness for bright ambient light
- [Night]: Adjust the brightness for the dark surrounding light. Tap ◀ Mid ▶ to set the Night level: Low/Mid/High. The default level is Low.

Info

Tap Info access into Software information mode to check the software version of this unit.

Software Update

Tap Software Update access into Software update mode to upgrade this device.

The device allow using "AppUP+" phone APP for checking new version of software, and follow the steps to upgrade this device.

- Tap [Software Update] access into the upgrade menu.

- Tap Install AppUP+ to install "APPUP+" APP on Smartphone.

- Tap Installed , the device will restart to upgrade operation.

TIPS

- Please keep this Software update screen until the new software upgrade is complete!
- When use the AppUP+, must be turn off the MirrorAPP+.

GRUNDIG
FOR A GOOD REASON

TFT Monitor section

Screen Size	:6.8 inches
Display Resolution	:800x480 dots
Contrast Ratio	:500

USB interface section

USB Standard	:USB 2.0 Full Speed
File System	:FAT 16/32
Maximum Current	:DC 5V ⎓ 1.5A
D/A Converter	:24Bit

Bluetooth section

Communication System	: Bluetooth Ver 5.0
Output Power	: Bluetooth Standard Power Class 2 , EIRP<8.0dBm
Maximum Communication Range	: Approx. 10meters
Frequency Band	: 2.402 - 2.480 GHz
Compatible Bluetooth Porfiles	: HFP/SPP/A2DP/AVRCP /PBAP
Supported Codecs	: SBC (Sub Band Codec)

Radio section

Frequency Range (Europe)	FM: 87.5 -108.0MHz AM: 526.5 -1606.5kHz DAB:174.928 - 239.200MHz
Frequency Range (U.S.A)	FM: 88 -108.0MHz AM: 525 -1705kHz
Usable sensitivity	: 13.2 uV (FM) : 44.7 uV (AM)(MW)

Video section

Color System of External Video Input	: NTSC/PAL
External Video Input (RCA/3.5m Jack)	: 1 Vp-p /75 Ω

Audio section

Maximum Power	: 50Wx4
Continuous Power Output (RMS)	: 22Wx4
Preout Level (V)	: 2V/10k Ω
Preout Impedance	: ≤1.3k Ω
Speaker Impedance	: 4-8 Ω
Output Frequency Band	: 20-20000Hz

WiFi section

Frequency Ranges	: 5.745 - 5.825 Ghz
Output Power	: +11.81dBm (Max EIRP)

General

Operating Voltage	: 14.4V (10.5-16 V)
Operational Temperature Range	: -20°C ~ +70°C
Maximum Current Consumption	:15A

Support Formats

Playable Audio Files

- MP3/WMA/Linear PCM (WAVE)/FLAC/Vorbis
  Bit rate:16-320 Kbps,VBR
- ID3 Tag Version 1.0/1.1/2.2/2.3/2.4 (for MP3)

NOTE
- WMA of which is covered with DRM cannot be played.
- Although the audio files are complied with the standards listed above, the play may be impossible depending on the types or conditions of media or device.

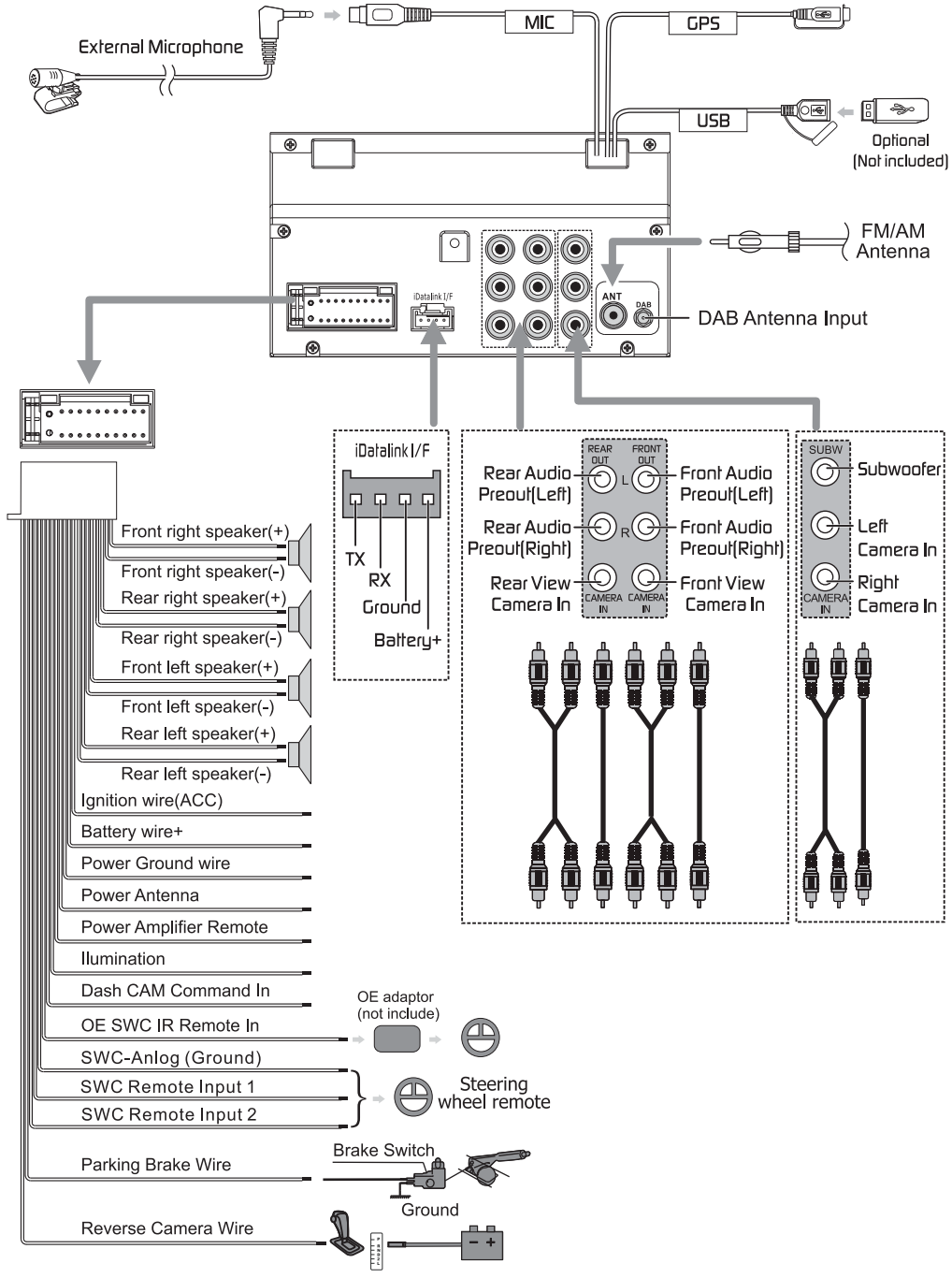
Acceptable Video Files

- MPEG 1 (.mpg,mpeg), 720x480 (30fps)
- MPEG 2 (.mpg,mpeg), 720x480 30fps)
- MPEG 4 (.mp4,avi), 1280x720 (30fps)

Support File / Folder Formats

- Directory nesting up to a maximum of 6 levels
- Number of tracks/titles: maximum 999
- Number of albums/foldersmaximum 99

Wiring Diagram



GRUNDIG

FOR A GOOD REASON

FC RoHS CE

EU Declaration of Conformity

Number

Car Audio System_GX-3900_of Doc

Name and address of the Manufacturer

Grundig Car Radio Ltd
17/Floor, EU Yan Sang Bldg. 11-15 Chatham, Road South T. S.T, Kowloon, Hong Kong, China

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Object of the declaration

GX-3900 is a Car Audio System which incorporate Bluetooth, WiFi, DAB, AM and FM technologies

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation

Directive RED: 2014/53/EU

and other Union harmonization legislation where applicable:

RoHS directive: 2015/863/EU amending 2011/65/ EU
WEEE directive: 2012/19/EU

References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared.

EN IEC 62368-1:2020+A11:2020; ETSI EN 301 489-1 V2.2.3; ETSI EN 301 489-3 V2.3.2; Draft ETSI EN 301 489-17 V3.2.6; EN 55032:2015+A1:2020; EN 55035:2017+A11:2020;	EN IEC 62311:2020; ETSI EN 300 328 V2.2.2; ETSI EN 300 440 V2.2.1; ETSI EN 303 345-1 V1.1.1; ETSI EN 303 345-2 V1.2.1; ETSI EN 303 345-3 V1.1.1; ETSI EN 303 345-4 V1.1.1;

The Notified Body	**Performed**
Name: Phoenix Testlab Number: 0700	Applicable Modules: B+C

And issued the EU-type examination certificate

Certificate number:

This product can be used across EU member state.

Description of accessories and components, including software, which allow the radio equipment to operate as intended and covered by the DoC

Hardware version	Main Board: B37 Panel Board: B12
Software version	V1
Antenna	BT: PCB Antenna, -2.31dBi WiFi: PCB Antenna, -2.02dBi AM/FM/DAB:External Antenna

Software version note: Some software updates will be released by the manufacturer to fix some bug or enhance some function after placing on the market. All versions released by the manufacturer have been verified and still compliance with the related rules. All RF parameters (e.g.: frequency range, output power) are not accessible to the user, and can't be changed by the user.

Signed for and on behalf of:

Hong Kong, 01/05/2024
Place and date of issue

For and on behalf of GRUNDIG CAR RADIO LIMITED

Roy Wu, Market Manager
Name, Function, signature

Authorized Signature(s)