

Flyaudio explorer series Owner manual



OWNER MANUAL

For installation and connections, refer to the separate manual. This manual explains the User-interface in connection of a Head-Unit.



V1.0

Thank you for purchasing a FlyAudio product. Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

- 1.CLASS 1 LASER PRODUCT
- 2.CAUTION: Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
- 3.CAUTION: Visible and/or invisible class 1M laser radiation when open. Do not view directly with optical instruments.
- 4.REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.



Products



Battery

**Information for Users on Disposal of Old
Equipment and Batteries**
[European Union only]

Warning:

Stop the car before operating the unit.

Caution:

Adjust the volume so that you can hear sounds outside the car. Driving with the volume too high may cause an accident. Avoid using the USB device or iPod/iPhone if it might hinder driving safety.

These symbols indicate that the product and the battery with this symbol should not be disposed as general household waste at its end-of-life.

If you wish to dispose of this product and the battery, please do so in accordance with applicable national legislation or other rules in your country and municipality.

By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health.

Notice:

The sign Pb below the symbols for batteries indicates that this battery contains lead.

Caution on volume setting:

Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by the sudden increase of the output level.

Temperature inside the car:

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Condensation:

When the car is air-conditioned, moisture may collect on the laser lens. This may cause disc read errors. In this case, remove the disc and wait for the moisture to evaporate.

How to reset your unit

The Reset-Button mostly can be found beside the holes for the microphone or close to the SD-card-slot.

Maintenance

Cleaning the unit

Wipe off the dirt on the panel with a dry Silicone or soft cloth. Failure to observe this Precaution may result in damage to the unit.

FlyAudio bears no responsibility for any loss of data in iPod/iPhone and/or USB mass storage class device while using the system.

How to forcibly eject and

load a disc

Press  to eject a DVD or CD

- Be careful not to drop the disc when it ejects.
- If this does not work, reset your unit.

To load the CD/DVD position it into the slot and Push it softly.

How to read this manual:

- This manual mainly explains operations using the buttons on the control panel or the user-interface.
- [] indicates the displays on the control panel.

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Basic operations

Control Panel

[]:Eject Disc.	[PWR•VOL]:Power and volume knob.
[]:MIC.	[CARD]:SD-Card.
[MEDIA]:Media Switching.	[NAVI]:Navigation screen.
[SEEK+]:Next.	[FM/AM]:Radio.
[SEEK-]:Previous.	[PHONE]:Bluetooth.
[HOME]:Main Menu.	[TUNE]:Radio tuning knob.
[RESET]:Reset.	[VOL+]:Volume Up.
[BACK]:Return.	[VOL-]:Volume Down.
[]:Bluetooth.	

Control Panel	General Function
	Ejects CD or DVD.
Reset/Mic	Reset-Button/Microphone for Hand free-Calls.
CARD	SD-Card Slot for GPS-Navigation-Software.
MEDIA	Switch among audio ,video and radio.
SEEK+	Select next audio,video or radio channel.
SEEK-	Select Previous audio,video or radio channel.
HOME	Switch to Main-Menu.
NAVI	Switch between Navigation-Software and actually source.
FM/AM	Switch between FM and AM.
PHONE	Access to bluetooth page.
BACK	Return previous page.
Power and volume knob	Turn to adjust the Volume/Short press to turn on or off mute/Long press to inter stand-by mode,press again to continue previous operation.
Radio tuning knob	Turn to select the radio channel/ Press it to access to "tune and balance".

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Radio FM/AM

	[◀ ▶]	Manual Station-Search.
	[TA]	Traffic Announcement.
	[AF]	Alternative Frequency.
	[Band Scan]	Automatic Station-Search.
	[EQ]	Equalizer.
	[Audio]	Generally Audio-settings.
	[FM/AM]	FM / AM Frequency Band.
	[Radio.]	Back to Main-Menu.

Manual Station-Search

Use the buttons ◀ and ▶ to search a Station manually with a short tap with 0,5MHz-Steps or fast tuning with staying on the button.

Automatic Station-Search

Enter [Band Scan] and press with a short tap the [Scan] button to search Stations in automatic-mode.

With a second tap on [Scan], the automatic-mode is switched off again.

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Store a Preset-Station

To store a preset press one of the six presets-fields where the frequency showed in the field, then press "Add to Favorite". Six presets can be store on FM1, FM2 and AM.

Traffic Announcement and Alternative Frequency

Activate with a short tap the Traffic Announcement [TA] and/or Alternative Frequency [AF].

Audio Settings

EQ – Equalizer



Default Settings [**Classical**], [**Pop**] and [**Flat**] with a tap on the button to choose.

The Frequency-Band can be changed with the singular beams starting by 32Hz up to 16KHz.

To store a custom-setting press a few seconds one of the three [**User**] buttons.

The storage is confirmed by becomes white color.

Use [**EQ**] to leave this screen again.

Audio – Generally Audio Settings



With the buttons ▲▼◀▶ can be changed the main-focus of the **FADER** between left, right, front and backward.

To choose the different frequency of **TREB, MID & BASS** and adjust the gain with the buttons [◀ ▶], the sound effect can be changed.

On the left corner the sound effect Loudness can be switched on or off.

Press [**Fader Balanced**] to make the volume of Fader at the balance point instantly.

Use [**Audio**] to leave this screen again.

Playing of DVD-disc

	[Folder]	Show the Folder-tree.
	[BLCD]	Activates the Head-rest-screen.
	[4:3] / [16:9]	Video Format 4:3 and 16:9.
	[Full Screen]	Full Screen Video-Format.
	[Video]	Show Video Standard-Size.
	[EQ]	See Page.9.
	[Audio]	See Page.9.
	[◀]	Previous Track.
	[▶]	Play / Pause.
	[▶▶]	Next Track.
	[◀◀]	Fast rewinding forward.
	[■]	Stop.
	[▶▶]	Fast rewinding reverse.
	[Disc]	Back to Main-Menu.

Playing of videos

	[Main Menu]	Disc Main-Menu.
	[Menu]	Disc Menu.
	[Audio]	Show Audio-information.
	[◀]	Previous Track.
	[▶]	Play / Pause.
	[▶▶]	Next Track.
	[◀◀]	Fast rewinding forward.
	[■]	Stop.
	[▶▶]	Fast rewinding reverse.
	[Subtitle]	Available Subtitles.
	[Setup]	Video Settings.
	[Back]	Back to Unit-Disc-Menu.

Video Settings

	With [Setup] the Screen-Setup for Color, Contrast, Tint and Brightness will be opened. Set the singular parts with [◀] and [▶].
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CD/DVD

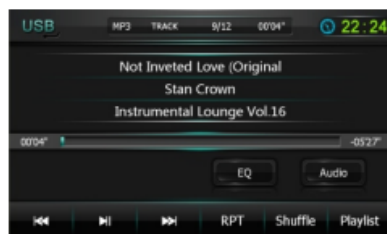
Playing of DVD-disc

	[Track List]	Show the tracks of Audio-CD's.
	[RPT]	Repeat the actually song.
	[Shuffle]	Play the songs randomly.
	[Folder]	Show the Folder-tree.
	[EQ]	See Page.9.
	[Audio]	See Page.9.
	[◀]	Previous Track.
	[▶]	Play / Pause.
	[▶▶]	Next Track.
	[◀◀]	Fast rewinding forward.
	[■]	Stop.
	[▶▶]	Fast rewinding reverse.
	[⏮]	Back to Main-Menu.

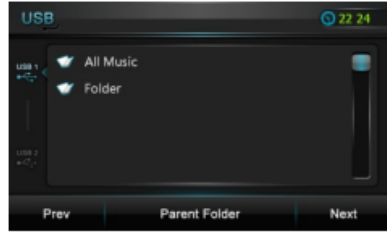
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USB Audio

Playing of USB-Devices

	[◀]	Previous Track.
	[▶]	Play / Pause.
	[▶▶]	Next Track.
	[RPT]	Repeat the actually song.
	[Shuffle]	Play the songs randomly.
	[Playlist]	Show the files on USB-device.
	[EQ]	See Audio Settings on Page.9.
	[Audio]	See Audio Settings on Page.9.
	[⏮]	Back to Main-Menu.

USB Playlist

	[Prev]	Previous Page.
	[USB1]	USB Jack C.
	[USB2]	USB Jack E.
	[All Music]	Show all songs.
	[Folder]	Show the Folder-tree.
	[Parent Folder]	Upper file Level.
	[Next]	Next Page.
	[⏮]	Back to Unit-USB-Menu.

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USB Video

Playing of USB-Devices



[⏮]	Previous Track.
[⏪]	Play / Pause.
[⏩]	Next Track.
[Playlist]	Show the files on USB-device.
[■]	Stop.
[Video]	Show Video Standard-Size.
[BLCD]	Activates the Head-rest-screen.
[EQ]	See Audio Settings on Page.9.
[Audio]	See Audio Settings on Page.9.
[Video]	Back to Main-Menu.

Playing of USB-Devices



[⏮]	Previous Track.
[⏪]	Play / Pause.
[■]	Stop.
[⏩]	Next Track.
[Setup]	Video-Setting (See Page 11).
[Back]	Back to Unit-USB-Menu.

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iPod/iPhone

Playing of iPod and iPhone



[⏮]	Previous Track.
[⏪]	Play / Pause.
[⏩]	Next Track.
[RPT]	Repeat the actually song.
[Shuffle]	Play the songs randomly.
[Video]	Change to Video-Screen.
[BLCD]	Activate Head-Rest-Screen.
[Playlist]	Show the files on USB-device.
[EQ]	See Audio Settings on Page.9.
[Audio]	See Audio Settings on Page.9.
[iPod]	Back to Main-Menu.

[Playlist] File



[Prev]	Previous Page.
[Parent Folder]	Upper file Level.
[Next]	Next Page.
[iPod]	Back to Unit-iPod-Menu.

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Play iPod - Video



[⏮]	Previous Track.
[⏪]	Play / Pause.
[■]	Stop.
[⏩]	Next Track.
[Setup]	Video-Setting (See Page 11).
[Back]	Back to Unit-iPod-Menu.

BLCD – external Screens



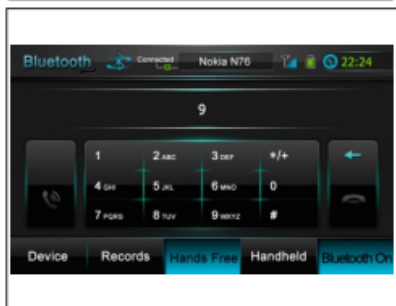
With **[BLCD]** it is possible to show USB, iPod and DVD-Videos on external Screens like used in the headrests.

External Screens will be connected with the AV-out of the head unit.

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Bluetooth devices

How to connect and use Bluetooth®

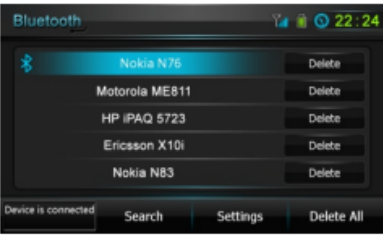
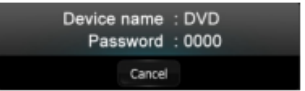


[Device]	Choose BT-Device.
[Records]	Show Call-Logs Phone/Unit.
[Hands Free]	Use Hands Free Function.
[Handheld]	Switch the call to Phone.
[Bluetooth ON]	Bluetooth® ON/OFF.
[1-0,#,*]	Number-Field to Dial.
[← Del]	Delete Numbers.
[Bluetooth,]	Back to Main-Menu.

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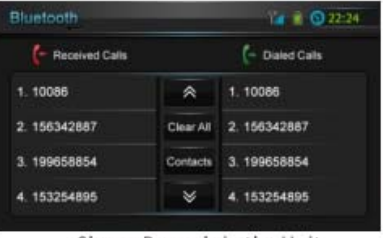
Bluetooth devices

How to connect

	Enter with [Device] the Bluetooth® Device-Overview. Press [Refresh] to search new Devices. The Bluetooth®-Device must be switched to viewable.	
	Tap the right device and confirm the Password on it.	
	[Settings] is located in the Bluetooth® Device-List. Auto Connect of the used Device can be switched [ON] or [OFF] .	

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Phone and Car-Records

 Shows Records in Phone	[Missed Calls]	Missed call list
	[Received Calls]	Received call list.
	[Dialed Calls]	Dialed call list.
	[SIM Contacts]	Phone book stored in SIM card.
	[Phone Contacts]	Phone book stored in mobile phone.
	[Search]	Inquiry the contact person.
	[Call Log]	Car Records.
	[Prev] and [Next]	Check phone call records.
 Shows Records in the Unit	[Bluetooth]	Back to Unit-Bluetooth-Menu.
	[Clear All]	Delete Records.
	[Contacts]	Back to record page.
	[⤴ ⤵]	Navigate.
	[1. – 4.]	Tap to dial.
	[Bluetooth]	Back to Unit-Bluetooth-Menu.
		Enter with [Search] the inquiry page. Input spelling and press [✓] to inquiry the contact person.

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A2DP-Bluetooth Music

How to play BT-Music



[EQ]	See Audio Settings on Page.9.
[Audio]	See Audio Settings on Page.9.
[<<]	Previous Song.
[▶]	Play Song.
[]	Pause.
[■]	Stop.
[>>]	Next Song.
[A2DP]	Back to Main-Menu.

Note: To play A2DP (Bluetooth® Music) the Unit must be connected with an external device like a cell-phone, iPod or other music-able BT-Device (See Page 20). Videos are not supported.

AV IN-Other external components

How to use external AV-Sources



[BLCD]	See BLCD – ext. Screens on Page.16.
[Setup]	See Video Settings on Page.11.
[Back]	Back to Main-Menu.

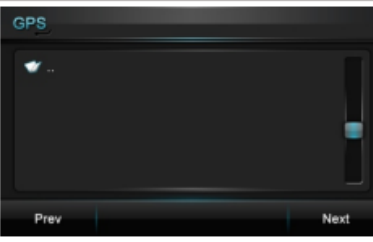
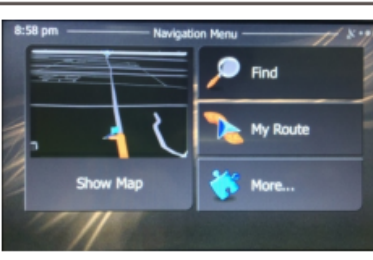
AV-IN uses the Jack-G on the unit.
The Backward-Camera uses a different channel on Jack-D.

TV is optional as a black box-solution and use an own user-interface.

Navigation Software – First startup

(The exact information about iGo are is a part of this manual)

	Pic.1 At the first startup be sure that the SD-card with the Navigation Software is still placed in the SD-card-slot. If the Path is not set this window will inform you about it.
	Pic.2 Confirm the last window with [OK] and tap [Browse] to locate the Navigation.exe file on the SD-card. [Auto run next time] should be marked to startup automatically.

	Pic.3 <table border="1"> <tr> <td>[Prev]</td><td>Previous Page.</td></tr> <tr> <td>[Next]</td><td>Next Page.</td></tr> <tr> <td>[GPS]</td><td>Back to GPS-Page.</td></tr> </table>	[Prev]	Previous Page.	[Next]	Next Page.	[GPS]	Back to GPS-Page.
[Prev]	Previous Page.						
[Next]	Next Page.						
[GPS]	Back to GPS-Page.						
	iGo will startup automatically next time. How to use iGo is part of the iGo-Product-Manual.						

Menu Operations

Main Menu

	[]	Screen Setting - Style.
	[]	Air-Condition.
	[]	Vehicle information.
	[FlyLink]	FlyLink connection.
	[]	Day/Night mode switch.
	[]	Screen off.
	[]	25% Screen illumination.
	[]	50% Screen illumination.
	[]	Full Screen illumination.
Left Top Corner informs about the active audio or video-source.		

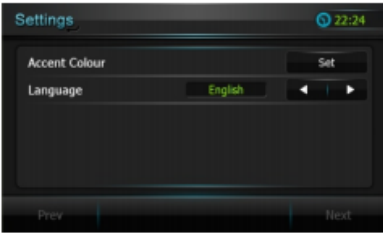
FlyLink: Using a cell-phone to connect the vehicle by USB Cable.

Note: Do NOT operate this software when driving.

Screen Setting – Color Set

	Color Set changes the color-theme of the user-interface. Beside default schemes [cyan], [blue], [orange] and [violet], own colors can be set with [◀] or [▶]. To store as user-default tap a few seconds [user1] or [user2] up to confirm.
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Screen Setting - Language

	System-Language to change with [◀] and [▶].
---	--

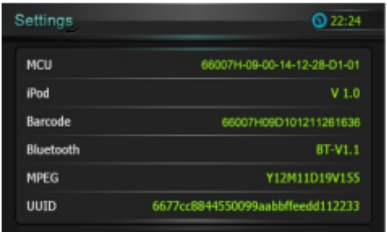
Menu Operations

Main Settings – (Page 1)

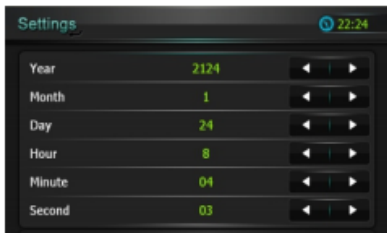
	Auto Switch to GPS	Unit changes automatically to GPS.
	GPS Voice	GPS Voice [ON] or [OFF] .
	Rearview Camera	Using Camera [ON] or [OFF] with Gear-signal.
	Auto Dimmer	Dimmer controlled by illumination [ON] or [OFF] .
	24 Hour Clock	[ON] 24 Hrs. [OFF] 12 Hrs. (am,/pm).
	[Info]	Views the System information.
	[Time Set]	Unit Time and Date Set.
	[Prev] and [Next]	Previous and Next Settings Page.

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Main Settings – INFO

	Version information of the Unit.
	MCU inform about the installed Firmware, important by issues or updates.
	[Settings] Back to Main Settings-Menu.

Main Settings – Time Set

	Set the Date and Time with [◀] and [▶] .
	[Settings] Back to Main Settings-Menu.

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Menu Operations

Main Settings – (Page 2)

	Steering Wheel Buttons	Default Protocols.
	Steering Wheel Customize	Tap [Learn] to teach the SWC.
	Navigation Volume Level	GPS-Voice-Volume 1- 3.
	Turn On Volume	Unit Volume at startup.
	Button Back Lighting	4-20 or Auto for illumination-control.
	[Calibrate Touch Screen]	Tap to calibrate the touch-screen.
	[Prev] and [Next]	Previous and Next Settings Page.

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Main Settings – Calibrate Touch-Screen

		After confirm the popup window, MTK request the calibration with short taps on the viewed crosses.
---	--	--

Main Settings – Steering Wheel Customize Learn

	To teach the MTK-Unit the SWC-Buttons tap the button on the screen and confirm on the steering-wheel the same function with a short press on the button. Continue with all other buttons on the steering-wheel with the same procedure.
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Menu Operations

Main Settings – (Page 3-4)

Page 3  Page 4 	Tuner Region	Optimize the Radio-Options.
	Brake Check	Switch to [OFF] to view Videos by driving.
	Time Zone	Set the global time zone.
	External Devices	Choose the current-device of Jack G.
	GPS Auto Run Next Time	Switch to [OFF] to cancel startup automatically.
	[System Update]	Automatic Update with SD-Card.
	[Version Select]	Select and apply the matching version.
	[Vehicle Information]	Switch to [OFF] to cancel the vehicle information.
	[System Reset]	Soft reset short tap, Factory reset by touch 10 seconds.
	[Prev] and [Next]	Previous and Next Settings Page.

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Additional Information

How to Update the unit for modification or by troubleshooting

1 - Update procedure

- (1) Copy the Files on an empty SD-Card and place into the unit.
- (2) Open Main Settings on 3rd Page. (See Page 26 and 30)
- (3) Tap **[System Update]** and wait until the Update finished.
- (4) After restart of the unit open Main Settings on 3rd Page. (See Page 26 and 30)
- (5) Tap **[System Reset]** until the unit will restart itself.

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FAQ

Screen-Buttons are difficult to use or graphic-area is different of touch-respond.

Open Main-Settings and calibrate the Screen new. (See Page 29)
Clean with a soft towel the Touchscreen

Videos can't be shown by driving the car.

Open Main-Settings and switch Brake Check to [OFF]. (See Page 30)

The Bluetooth® device can't be found by searching in the unit.

Be sure that Bluetooth is activated and the external device viewable. If in past the bound still worked, delete the device in the list and search it new. (See Page 18)

No Voice-Commands by using GPS-Navigation.

Open Main-Settings and switch GPS-Voice to [ON].

The Rearview-Camera picture won't be viewed.

Open Main-Settings and switch Rearview Camera to [ON]. (See Page 26)
Be sure that the electrical Reverse-Signal is available at the unit.
Check the AV-IN Camera to unit.

Unit switches automatically at audio and video-sources to gps-navigation.

Open Main-Settings and switch Auto Switch to GPS to [OFF]. (See Page 30)

By further Troubleshooting here not listed please contact the Support of your dealer.

Specifications subject to change without notice.

FM tuner section

Frequency range (50kHz space)
: 87.5 MHz – 108.00 MHz
Practical sensitivity
: ≤ 12 dB μ V
Locking sensitivity
: 35 dB μ V
SNR
: Over 50dB (IHF-A network)
THD
: 0.3%
Frequency response
: ≥ 2 KHz
Stereo crosstalk
: ≥ 27 dB

MW/AM tuner section

Received frequency band
: 531 KHz ~ 1602 KHz (9 KHz)
531 KHz ~ 1604 KHz (10 KHz)
Practical sensitivity
: ≤ 28 dB μ V
Locking sensitivity
: ≤ 45 dB μ V

CD Player section

Support Disc
: DVR-ROM, DVD-Video,
DVD-R (Video mode)
/RW (Video mode), CD-ROM,
CD-CA, CD-R/RW
Signal format (Sampling rate)
: (DVDvalue) 48/96 KHz
(CDvalue) 44.1 KHz
Signal format (quantization B it)
: (DVDvalue) 16/20/24 B it line
(CDvalue) 16 B it line
Frequency response
: 20 Hz ~ 20KHz (± 3 dB)
Audio SNR
: ≥ 65 dB

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Audio section

Maximum output power
: 45 W x 4
Output power (DIN 45324, +B=14.4V)
: 22 W x 4 (10% T.H.D)
Speaker Impedance
: 4 Ω

GPS

Approach
: L1, C/A code GPS
SPSstandard
: positioning service
Receiving way
: 12 Channels
Receiving frequency
: 1 575.42 MHz
Channel separation
: ≥ 50 dB
Audio distortion plus noise
: $\leq 0.03\%$

Video output level
: 1.0 ± 0.3 Vpp
Line synchronous amplitude
: 0.3 ± 0.1 Vpp

Auxiliary input

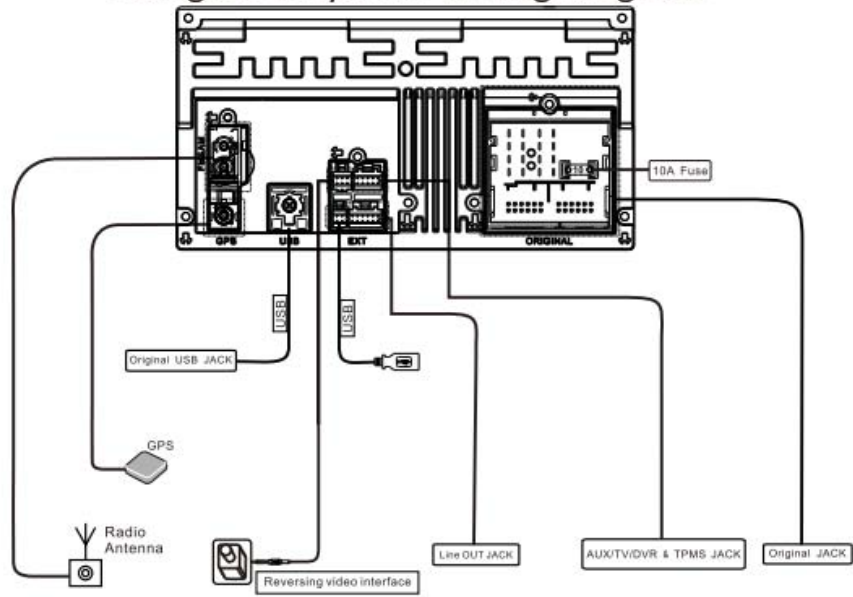
Frequency response (± 1 dB)
: 20 Hz – 20 KHz
Input Maximum Voltage
: 1200 mV
Input Impedance
: 200 k Ω

General

Operating Voltage (11 – 16V allowable)
: 14.4 V
Grounding
: Negative pole grounding
Current consumption
: 10 A
Installation Size (W x H x D)
: 245 x 137 x 180 mm
Weight
: 2.1 Kg

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Navigation system wiring diagram



FCC Statement

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.

To assure continued compliance, any changes or modifications not expressly approved by the party.

Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with

minimum distance 20cm between the radiator and your body.