

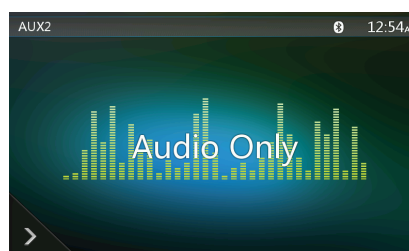
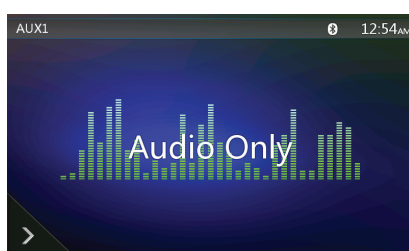
18. AUX

External peripheral devices, including a game console, camcorder, navigation unit, iPod/iPhone, etc. can be connected to the AUX connector on the front or back of this unit using the A/V media cables.

Switching to AUX IN

Touch **[AUX1]** / **[AUX2]** button on Main Menu to select desired mode (when unit is reading). If the external device connected to AUX input have audio signal, the unit will broadcast audio of external device. Press Menu button on Operational Panel to return to the Main Menu.

You cannot directly control external devices connected to AUX input.



19. CAMERA INPUT OPERATIONS

Switching to Camera mode

Touch **[Camera]** button on Main Menu.

The LCD will display the external camera video. The screen will display "No Video Signal" message, if a valid camera is not connect to this head unit.

Press MENU button on Operational Panel to return to the Main Menu.

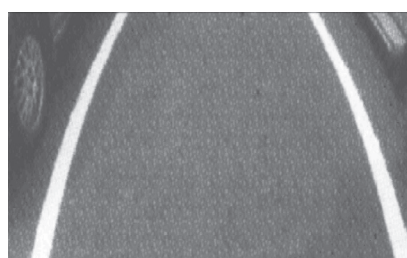
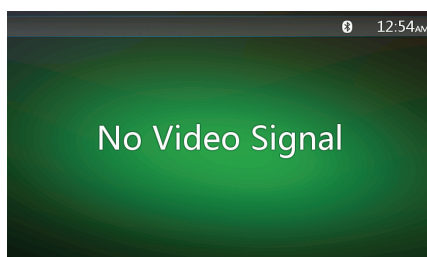
Setting Camera audio

Select "ON" button in the Camera Audio setting of the General setting.

The audio from camera will heard when back gear is on. The volume control is available but not indicated on the screen due to the safety.

Select "MUTE" button, then mute the audio of the current mode when back gear is on.

Select "Off" button, then play the audio of the current mode then back gear is on.



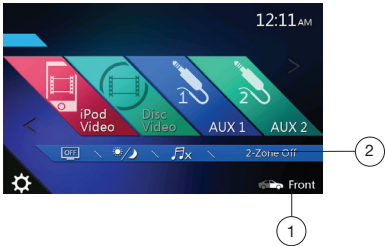
Note:

If the reverse cable is connected correctly to the car, the unit goes to camera mode automatically when the car is in reverses.

As an additional safety feature, the audio from camera with built-in microphones can be heard through the NX405.

20. REAR SOURCE OPERATIONS

If a monitor is installed in the rear zone and connected to the rear zone AV output, passengers in the back seat can watch the DVD/iPod Video/AUX1/ AUX2 video separately from front source.



- 1. Touch the button to access the front source.
- 2. Touch the button to close the rear source.

Multi-Zone Operation

Independent sources can be played simultaneously on the unit. For example, a FM/AM console can be playback on the front screen while DVD video is available to rear passengers. But now can't select DVD video in front.

Access Rear-Zone

- 1. Touch the Rear button on Main Menu to access the Rear Source.
- 2. Select a source to play.

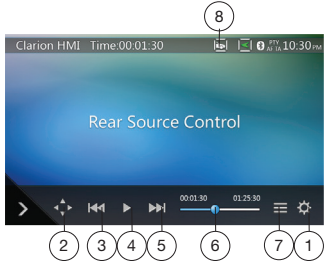
Exit Rear-Zone

Touch the 2-Zone off button to close the Rear Source.

Note:

- 1. If the source is selected as the front, the source in rear can't be selected.
- 2. If the source is selected as the rear, the source in front can't be selected.
- 3. Touch the Front button to access the main menu but not close the Rear Source.

DVD Video in Rear



- 1 -Option button
- 2 -Show Cursor keys
- 3 -Previous Chapter /Fast Backward button
- 4 -Play/Pause button
- 5 -Next Chapter /Fast Forward button
- 6 -Elapsed playing time
- 7 -Menu List button
- 8 -Front/Rear button

If the screen displays Rear Source, touch Front/Rear button to switch to Front Source.

If the screen displays Front Source, touch Front/Rear button to switch to Rear Source.



DVD Video Rear Source Control Info Mode.



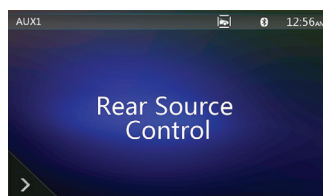
Touch BACK button to return.

DVD Video Rear Source Control Direct Mode.



NOTE: More detail please refer to DVD Video Front source.

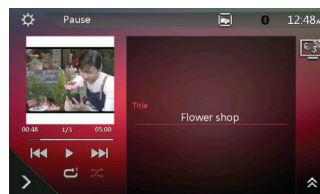
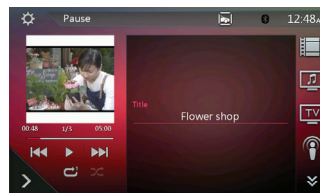
AUX1



AUX2

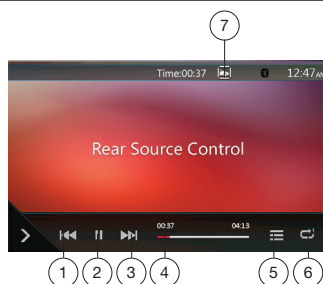


iPod Video Rear Source ID3 Mode



iPod Video in Rear

iPod Video Rear Source Control Play Mode



- 1 - Previous Track /Fast Backward button
- 2 - Play/Pause button
- 3 - Next Track/Fast Forward button
- 4 - Progress bar

5 - Menu List button:

Press the Menu button to display the iPod Video Rear Source mode screen.

6 - Repeat button:

Same as iPod function of front source

7 - Front/Rear button

If the screen displays Rear Source, touch to switch to Front Source.

If the screen displays Front Source, touch to switch to Rear Source.

NOTE:

If the source is selected as the front, the source in rear can't be selected.

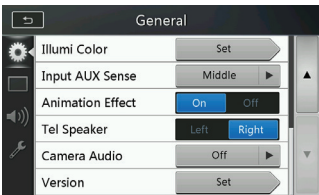
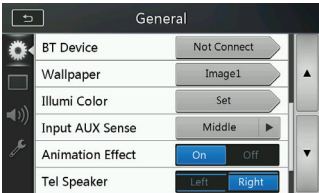
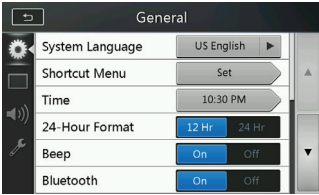
If the source is selected as the rear, the source in front can't be selected.

Touch the Front button to access the front main menu but the rear source will keep running.

21. SETTING OPERATIONS

Touch [] button on the Main menu screen.
The Setting menu screen will be displayed.

General Setup Menu



System Language: Set the Language for system screen.

Shortcut Menu: Select menu to be able to select from Shortcut menu and drag it to lower side area.



Time: Set system clock.



24-Hour Format: Set the time display mode.

Beep: Turn on or turn off the beep confirmation sound.

Bluetooth: Set the Bluetooth On or Off.

Wallpaper: Choose the desired wallpaper.
There are three optional images, which you can import from USB. Select "Imported 1/2/3" and touch [Import].
The format should be jpeg of less than 5M bytes.



Illumination Color: Set the illumination color on the panel.

Input Aux Sense: AUX input switch, including Low, Middle, High.

Tel Speaker: There are two options, Left and Right. For example, if current setting is Right, when BT phone is coming in, only right speaker can hear the phone.

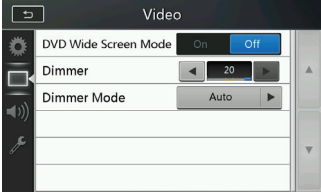
Camera Audio: There are three options, Off, On and Mute.

Version: Display the software version information.

Note:

- Time and 24-Hour Format can be adjusted when set the system time not to be synchronized with GPS local time.

Video Setup Menu

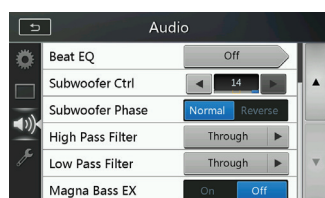
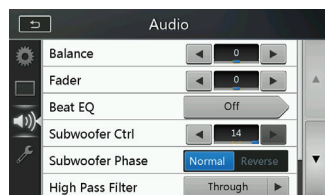


DVD Wide Screen Mode: Set the DVD wide screen mode On or Off.

Dimmer: Set Dimmer value from 0 to 20.

Dimmer Mode: There are three options, Day, Night and Auto.

Audio Setup Menu



Balance: Choose the desired volume for left and right speaker.

Fader: Choose the desired volume for front and rear speaker.

Beat EQ: Choose the desired mode: Bass Boost, Impact, Excite, Custom and OFF.

Subwoofer Ctrl: Choose the desired subwoofer gain from 0 to 14.

Subwoofer Phase: Choose the Subwoofer Phase normal or reverse.

High Pass Filter: Choose the frequency about the high pass filter or enable. The frequencies include 60Hz, 90Hz and 120Hz.

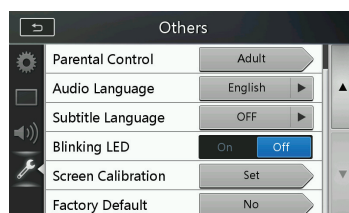
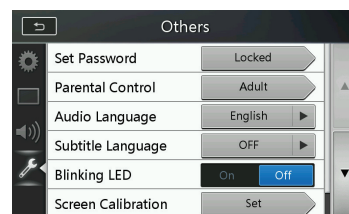
Low Pass Filter: Choose the frequency about the low pass filter or enable. The frequencies include 60Hz, 90Hz and 120Hz.

Magna Bass EX: Choose the loudness On or Off.

Note:

Optional cable (sold separately) is necessary when you use Audio line out.

Others Setup Menu



Set Password: Set the password for DVD parental control.

Parental Control: Set the rating of the age. It contains Kid Safe/G/Pg/Pg- 13/Pg-R/R/NC- 17/Adult.

Audio Language: Set the Language for DVD Audio.

Subtitle Language: Set the Language for DVD subtitle.

Blinking LED: Set blinking LED On or Off.

Screen Calibrate: The function of it is to select the TS Calibrate YES or NO.

Factory Default: The function is to select to load factory default or not.

Set the Anti-Theft Code

1. If your unit is unlocked, hold the  button more than 2 seconds, then the Anti-Theft setting mode will display. Users can change anti-theft code.

Touch [YES] button, the numerical keypad is displayed. Enter the new password twice, then anti-theft code is set and your unit is secured.

When the Anti-theft is "On", you need enter correct Anti-theft code to turn the unit on. If you enter wrong code three times, the unit is locked, and must be unlocked by the professionals.

2. If your unit is secured, hold the  button more than 2 seconds, then the Anti-Theft setting mode will display. The numerical keypad is displayed, enter the right code to unlock.

Note:

If the anti-theft code is lost or forgotten, a charge will be incurred at the owner's expense by a Clarion service station to unlock the NX405.

22. TROUBLESHOOTING

General

Problem	Cause	Measure
Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage. If the fuse blows again, consult your store of purchase.
	Incorrect wiring.	Consult your installation center.
Nothing happens when buttons are pressed. Display is not accurate.	The microprocessor has malfunctioned due to noise, etc.	Press the reset button with a thin rod. Note: <i>When the Reset button is pressed, turn off the ACC power.</i> * When the Reset button is pressed, frequencies of radio stations, titles, etc. stored in memory are cleared.
The remote control unit does not work.	Direct rays of the sun fall on the light-receptive part of the remote control unit.	When direct rays of the sun fall on the light-receptive part of the remote control unit, it may not work.
	The battery of the remote control unit is dead or there is no battery in the remote control unit.	Check the battery of the remote control unit.

DVD Player

Problem	Cause	Measure
Disc cannot be loaded.	A disc is already loaded.	Eject the disc before loading the new one.
	There is foreign matter already in the disc slot.	Remove the foreign matter, or consult a service station.
Sound skips or is noisy.	Disc is dirty.	Clean the disc with a soft cloth.
	Disc is heavily scratched or warped.	Replace with a disc in good condition.
Sound is bad directly after power is turned on.	Condensation may form on the internal lens when the car is parked in a humid place.	Let dry for about 1 hour with the power on.
Video images are not displayed.	The parking brake is not engaged.	Check that the parking brake is engaged.
Disc cannot play with the display " PARENTAL VIOLATION " shown.	Feature exceeds set parental level.	Release the view limitation or change the parental level. See the subsection "Setting up the parental level"

USB Device

Problem	Cause	Measure
USB device cannot be inserted.	The USB device has been inserted with wrong direction.	Reversing the connection direction of the USB device, try it again.
	The USB connector is broken.	Replace with a new USB device.
USB device is not recognized.	The USB device is damaged.	Disconnect the USB device and reconnect. If the device is still not recognized, try replacing with a different USB device.
	Connectors are loose.	
No sound heard with the display "NO FILE" shown.	No MP3/WMA file is stored in the USB device.	Store these files properly in the USB device.
Sound skips or is noisy.	MP3/WMA files are not encoded properly.	Use MP3/WMA files encoded properly.
The video image of iPod/iPhone is disturbed.	The TV Signal setting of the iPod/iPhone is not set correctly.	Set the TV Signal setting (NTSC/PAL) of the iPod/iPhone correctly.

Bluetooth

Problem	Cause	Measure
Cannot pair the Bluetooth enable device with the car audio system.	The device does not support the profiles required for the system.	Use another device to connect.
	The Bluetooth function of the device is not enabled.	Refer to the user manual of the device for how to enable the function.
The audio quality is poor after connection with a Bluetooth enabled device.	The Bluetooth reception is poor.	Move the device closer to the car audio system or remove any obstacle between the device and the system.

SiriusXM Advisory Messages

Advisory Name	Description
Check Antenna	The radio has detected a fault with the SiriusXM antenna. The antenna cable may be either disconnected or damaged. Verify that the antenna cable is connected to the SiriusXM Connect Vehicle Tuner. Inspect the antenna cable for damage and kinks. Replace the antenna if the cable is damaged. SiriusXM products are available at your local car audio retailer or online at www.shop.siriusxm.com
Check Tuner	The radio is having difficulty communicating with the SiriusXM Connect Vehicle Tuner. The tuner may be disconnected or damaged. Verify that the SiriusXM Connect Vehicle Tuner cable is securely connected to the radio.
No Signal	The SiriusXM Connect Vehicle Tuner is having difficulty receiving the SiriusXM satellite signal. Verify that your vehicle is outdoors with a clear view of the sky. Verify that the SiriusXM magnetic mount antenna is mounted on a metal surface on the outside of the vehicle. Move the SiriusXM antenna away from any obstructions. Inspect the antenna cable for damage and kinks. Consult the SiriusXM Connect Vehicle tuner installation manual for more information on antenna installation. Replace the antenna if the cable is damaged. SiriusXM products are available at your local car audio retailer or online at www.shop.siriusxm.com
Subscription Updated	The radio has detected a change in your SiriusXM subscription status. Press the "Enter" button to clear the message. In the U.S.A., visit www.siriusxm.com or call 1-866-635-2349 if you have questions about your subscription. In Canada, visit www.siriusxm.ca or call 1-877-438-9677 if you have questions about your subscription.
Channel Not Available	The channel that you have requested is not a valid SiriusXM channel or the channel that you were listening to is no longer available. You may also see this message briefly when first connecting a new SiriusXM Connect vehicle tuner. Visit www.siriusxm.com for more information about the SiriusXM channel lineup.
Ch Unsubscribed	The channel that you have requested is not included in your SiriusXM subscription package. Visit www.shop.siriusxm.com or call 866-635-2349 if you have questions about your subscription. In the U.S.A., visit www.siriusxm.com or call 1-866-635-2349 if you have questions about your subscription or would like to subscribe to this channel. In Canada, visit www.siriusxm.ca or call 1-877-438-9677 if you have questions about your subscription or would like to subscribe to this channel or would like to subscribe to this channel.

Channel Locked	The channel that you have requested is Locked by the radio Parental Control feature. See the Parental Control Lock/Unlock section, page 45 for more information on the Parental Control feature and how to access locked channels.
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TFT Screen

Problem	Cause	Measure
The image is not displayed.	The parking brake is not engaged.	Check that the parking brake is engaged.
The display is dark.	The Dimmer control is too low.	Adjust the Dimmer properly.
	The operating condition is not good.	The temperature inside the vehicle may be 0°C or lower. Set to an appropriate temperature (25°C or so) and check it again.
	The headlight of the vehicle is lit	The display is made dark at night to prevent the glare (When the headlight of the vehicle is lit in the daytime, the display gets dark).
There are red, green, and blue points in display.	-----	This is not a failure, but a phenomenon peculiar to a liquid crystal panel (The liquid crystal panel is produced according to technology with very high precision. Note that, though there are effective pixels of 99.99% or more, pixel missing or normally lit pixels account for 0.01%).

23. ERROR DISPLAY

If an error occurs, one of the following displays is displayed.
Take the measures described below to solve the problem.

DVD Player

Display	Cause	Measure
BAD DISC	A disc cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
Invalid Disc	A disc is loaded upside- down inside the DVD deck and does not play.	Eject the disc then reload it properly.
PARENTAL VIOLATION	Parental level error	Set the correct Parental level.
Region code error	Region code error	Eject the disc, and replace correct region code disc.

24. SPECIFICATIONS

FM Tuner

Frequency Range: 87.9 MHz to 107.9 MHz

Usable Sensitivity: 8 dB μ V

Stereo Separation: 25 dB (1 kHz)

Frequency Response: 30 Hz to 14 kHz

A2DP (Advanced Audio Distribution Profile)

AVRCP1.2,1.3,1.4 (AV Remote Control Profile)

PBAP (Phone Book Access Profile)

SPP (Serial Port Profile)

Power Class: 2

AM Tuner

Frequency Range: 530 kHz to 1,710 kHz

Usable Sensitivity: 30 dB μ V

USB

Specification: USB 1.1/2.0 (FS)

Playable Audio format:

MP3,WMA,AAC,FLAC

Playable Video format:

AVI,MP4,MPG/MPEG,3gp

DVD Player System

Digital Versatile Disc System with CDDA capable

Usable discs:

DVD video disc, Compact disc

Frequency Response: 20 Hz to 20 kHz

Signal/Noise Ratio: 88 dB (1 W Ref)

Distortion: 0.05%

Video system: NTSC/PAL

General

Power source voltage:

14.4 VDC (10.8 to 15.6 V allowable)

Ground: Negative

Current consumption: 4.0 A @1 W

Auto Antenna Rated Current: 500 mA less

Audio/Video Input

Audio input voltage: $\leq 2 V_{rms}$

Video input voltage: $1.0 V_{p-p} @ 75\Omega$

Audio input sensitivity (at 2 V output)

High: 325 mV $_{rms}$

Mid: 650 mV $_{rms}$

Low: 1.3 V $_{rms}$

Note:

- Specifications and design are subject to change without notice for further improvement.

Audio/Video output

Video output voltage: $1.0 V_{p-p} @ 75\Omega$

Screen Size: 6.0" wide type

Pixels: 1,152,000

Resolution: 800 x 480 x 3 (RGB)

Power Output:
19W RMS x 4 Channels at 4 Ω
and $\leq 1\%$ THD+N

Signal to Noise Ratio:
83 dBA(reference 1 W into 4 Ω)



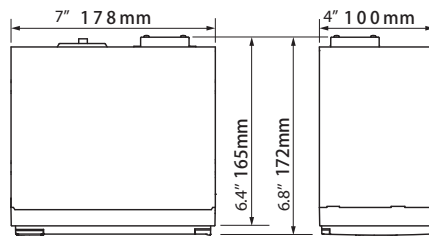
Bluetooth

Specification: Bluetooth Ver 4.0

Profile: HFP1.5(Hands Free Profile)

HSP1.0 (Headset Profile)

60 VX405



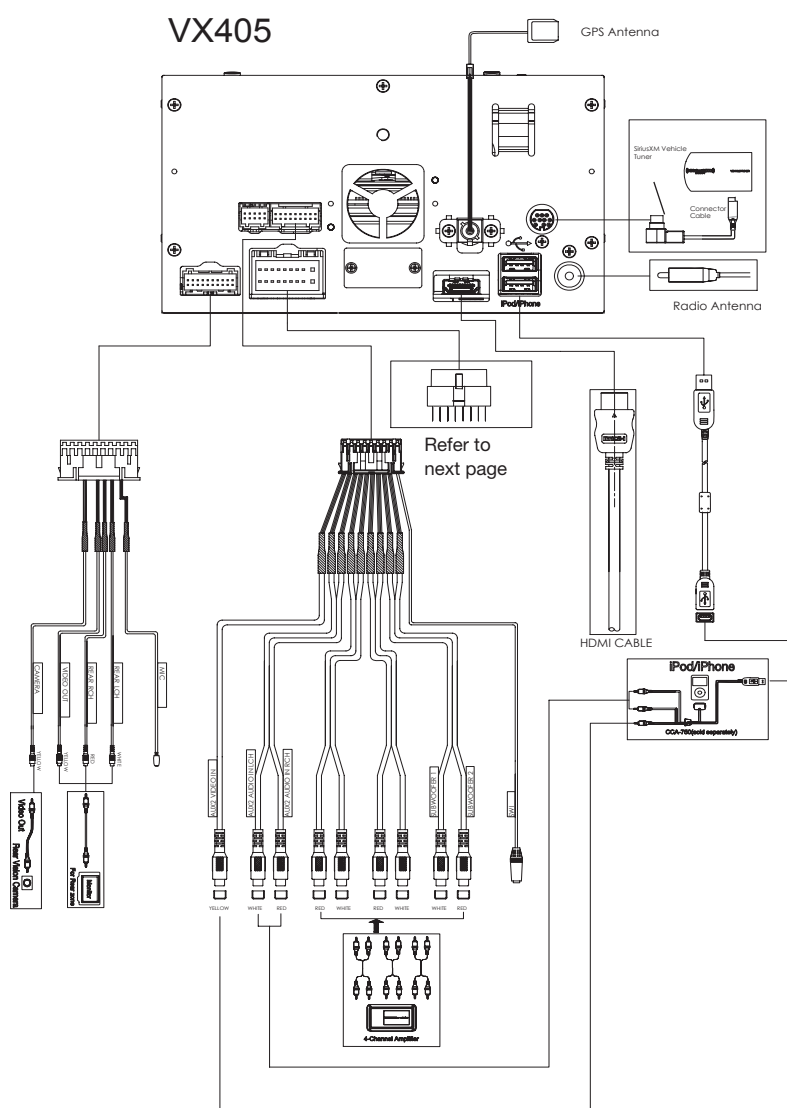
NX405 dimensions:

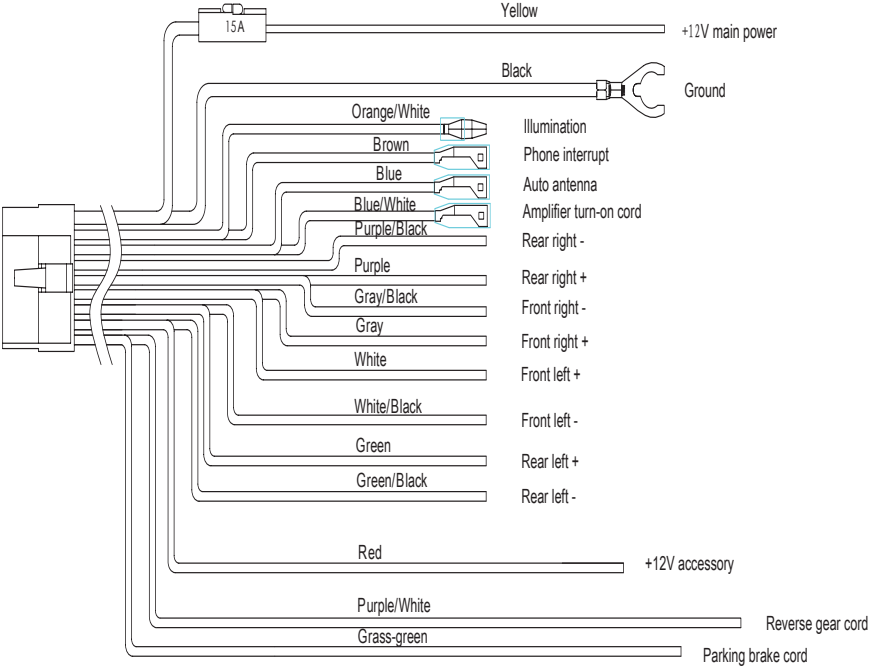
NX405 weight: 2.3 kg

25. WIRE CONNECTION GUIDE

Note:

- Before installing, be sure to disconnect the negative cable of the car battery.
- In the optional devices, the RCA cables and the Connector cables are separately-sold items.
- When connect the HDMI and USB cable, be sure to fix with the clamp.





Note:
 *1: Connecting the PHONE INTERRUPT terminal
 The phone interrupt will mute the audio if the lead receives a negative or ground signal.

Clarion Co., Ltd.

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