

SP200 series



User Guide

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Sample System






TO BE DEFINE

General Information




Notes in installation and operating instructions

Please read this information carefully and follow all the instructions outlined below. This will ensure reliable operation and durability of your unit. Keep the packaging and operating instructions in a safe place in order to pass them on to a subsequent owner in the event of selling the unit at a later date.

The following reading aids are used to simplify these operating instructions:

-  **Ask you to perform an action.**
-  **Show the unit's reaction.**
-  **Provide extra info.**
-  **Special notes or remark.**
- Identify a list.**
-  **Safety instructions and warnings contain important information for the safe use of the unit. Failure to observe this information may result in material damage or personal injury. Therefore, please observe this information with particular care.**

Safety Instruction

-  **For safety reasons, the driver should not watch TV/Media/DVD or similar when driving. Please note that it is illegal in certain countries to watch or to operate a TV, media, game, GPS or similar device when driving.**
-  **Only use the DVB-T tuner for its intended purpose.**
-  **Do not clean using cleaning fluid, alcohol or other solvents. Use only a damp cloth.**

Features

- Support 120G anti-shock Hard Drive
 - Multi zone display
 - Support SD card USB interface.
 - AV output: Composite Video and Audio L/R for connecting a monitor
-

- ❑ Infrared remote control
 - 🔑 For road safety reasons, The driver displayed terminal of the product should have a locking function which blanks the screen whenever the vehicle is in motion. The picture of displayed terminal only appears when the vehicle is stationary and the parking brake is engaged.
-

Important Information

- ⚠ The system must only be installed by trained personnel.**
 - ⚠ Observe automotive industry quality standards.**
 - ⚠ Fire hazard. When drilling, take care not to damage concealed wiring harnesses, the fuel tank or fuel lines.**
 - ⚠ Never drill into supporting or safety-relevant body parts.**
 - ⚠ It is essential to observe the following when installing components in the passenger compartment:**
 - ⚠ Ensure that the driver has a clear all-round view.**
 - ⚠ Increased risk of injury in the event of an accident. Do not install components in the inflation range of the airbag or in areas where the head or knees may knock against them.**
 - ⚠ Only install the unit in vehicles with a 12-V on-board voltage and negative pole on the vehicle body. Risk of malfunctions, damage and vehicle fire if installed in unsuitable vehicles.**
 - ⚠ Do not damage safety system wiring (airbag etc.). (Wiring is normally specially marked, e.g. by labels.)**
 - ⚠ Do not use test lamps to test the voltage, since excessively high currents can damage /destroy electronic components.**
 - ⚠ Do not use any pinch or cut connectors. Solder all wiring connections. Insulate all solder points with shrink hose or insulating tape.**
 - ⚠ Fit toothed washers at earth connections to the vehicle body. If necessary, remove paint and dirt beforehand. Subsequently, protect bare metal against corrosion.**
 - ⚠ In order to ensure perfect installation, use only the original components supplied. The use of non-authorized components may result in malfunction.**
 - ⚠ Do not install the unit in positions where it is exposed to high temperatures, dust, dirt or excessive vibration (e.g. due to direct sunlight or heating vents).**
-

PACKAGE CONTENTS

Actual products' appearance might vary slightly from the pictures shown.




<p>#1</p> <p style="text-align: center;">To be defined</p>	<p>#2</p> <p style="text-align: center;">To be defined</p>
<p>#3</p> <p style="text-align: center;">To be defined</p>	<p>#4</p> <p style="text-align: center;">To be defined</p>
<p>#5</p> <p style="text-align: center;">To be defined</p>	<p>#6 Batteries</p> 
<p>#7 Remote control</p> 	<p>#8 SP200 series</p> 

Figure 1 Product package contents

Installation

TO BE DEFINED

Figure 2 Product Installation kits

1.1. Power/control cable installation

1.1.1. Connect to Battery

- ☞ Refer to 1-1 in Figure 2 Product Installation kit.
- ☞ Turn off car
- ☞ Install suitable power cables from battery to the target installed location of the product. The recommended location is the underneath of passenger seat or trunk. Suggest installing yellow power cable to battery V+ and black power cable to battery V-.
- ☞ Install ACC power cable from power ignition positive. Suggest installing red cable for the ACC cable.

Power cable definition

Cable Color	Connection
Yellow	+12 V permanent positive terminal
Red	+12 V ignition positive / accessory contact / ACC
Black	Earth / GND

1.1.2. Install IR receiver for 2-DIN(BD765)

- ☞ Refer to 1-2 in Figure 2 Product Installation kit.
- ☞ **The 3.5-mm jack plug of the IR receiver into the “IR RemoteConnec Receiver” socket.**
- ☞ Install the IR receiver with adhesive pad around the 2-DIN location
The green led shall be turned on while the product is turned on.

1.1.3. Connect control cable to 2-DIN interface adaptor (AI101)

- ☞ Refer to 1-3 in Figure 2 Product Installation kit.
- ☞ Connect the 2-DIN interface cable to 2-DIN interface adaptor(AI101) to control touch and display interface of 2-DIN

This connection may be omitted if the 2-DIN has no touch interface.

1.2. Connect 2-DIN interface adaptor (AI101) to 2-DIN

- ☞ Refer to 2 & 2-1 in Figure 2 Product Installation kit.
- ☞ Connect cable 2-1 in Figure 2 Product Installation kit to the 2-DIN
Cable 2-1 in Figure 2 Product Installation kit may be different with the 2-DIN models.
Check 2-DIN interface adaptor(AI101) support 2-DIN models
This connection may be omitted if the 2-DIN has no touch interface.

1.3. Connect to AUX-IN for external AV device

- ☞ Refer to 4 in Figure 2 Product Installation kit.
- ☞ The AUX-IN port may connect to external AV devices, for example, DVD changer, 2-DIN DVD output, rear view camera etc.
- ☞ Connect AV cable to the external AV devices. Refer to the AV device installation guide for detail installation.
Please verify your DVD output setup correctly if connect the AUX-IN to 2-DIN DVD output.

1.4. Install USB media storage

- ☞ Refer to 6 in Figure 2 Product Installation kit.
- ☞ Install this unit in proper location which is easy for driver or passengers to plug and play USB media storage.
Make sure the USB fulfills USB2.0 specification. It may have reading compatible issue if the USB is not installed correctly.

1.5. Connect to 2-DIN (BD765)

- ☞ Refer to 7 in Figure 2 Product Installation kit.
 - ☞ Connect AV out of the product to 2-DIN device (BD765)
If the 2-DIN device has a special interface for AV input, refer to Connect 2-DIN interface adaptor (AI101) to 2-DIN session.
-

1.6. Connect to rear seat monitors

- ☞ Refer to 8 in Figure 2 Product Installation kit.
- ☞ Connect rear seat monitors (SP200-P) to the “S” cable.

The rear seat monitors could be Funtoro product-SP200-P or any other AV monitors. (Other AV monitors will need an “S” cable to RCA cable adaptor.)

Refer to Funtoro product-SP200-P monitor menu for detail installation instruction.

If the rear seat monitors are installed by other AV monitors, it is necessary to installed extra power and control lines.

Operation

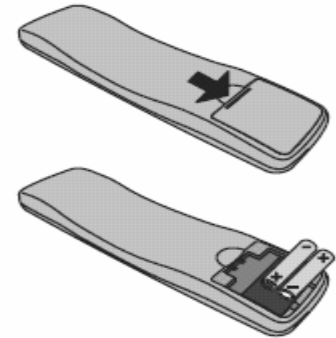
2.1. Getting Start

This product includes connection of USB and SD memory card slot. Before you begin to install and use this product, please read this manual carefully for fully exploiting the functions of this product. If you experience any problems, go through the user guide.

2.2. Remote Control

2.2.1. Insert batteries

- ☞ Open the battery compartment on the back of the remote control.
- ☞ Insert two new Type AAA batteries. Ensure correct polarity (marked in the battery compartment).
- ☞ Close the battery compartment



2.2.2. Remote Control (Undefined)

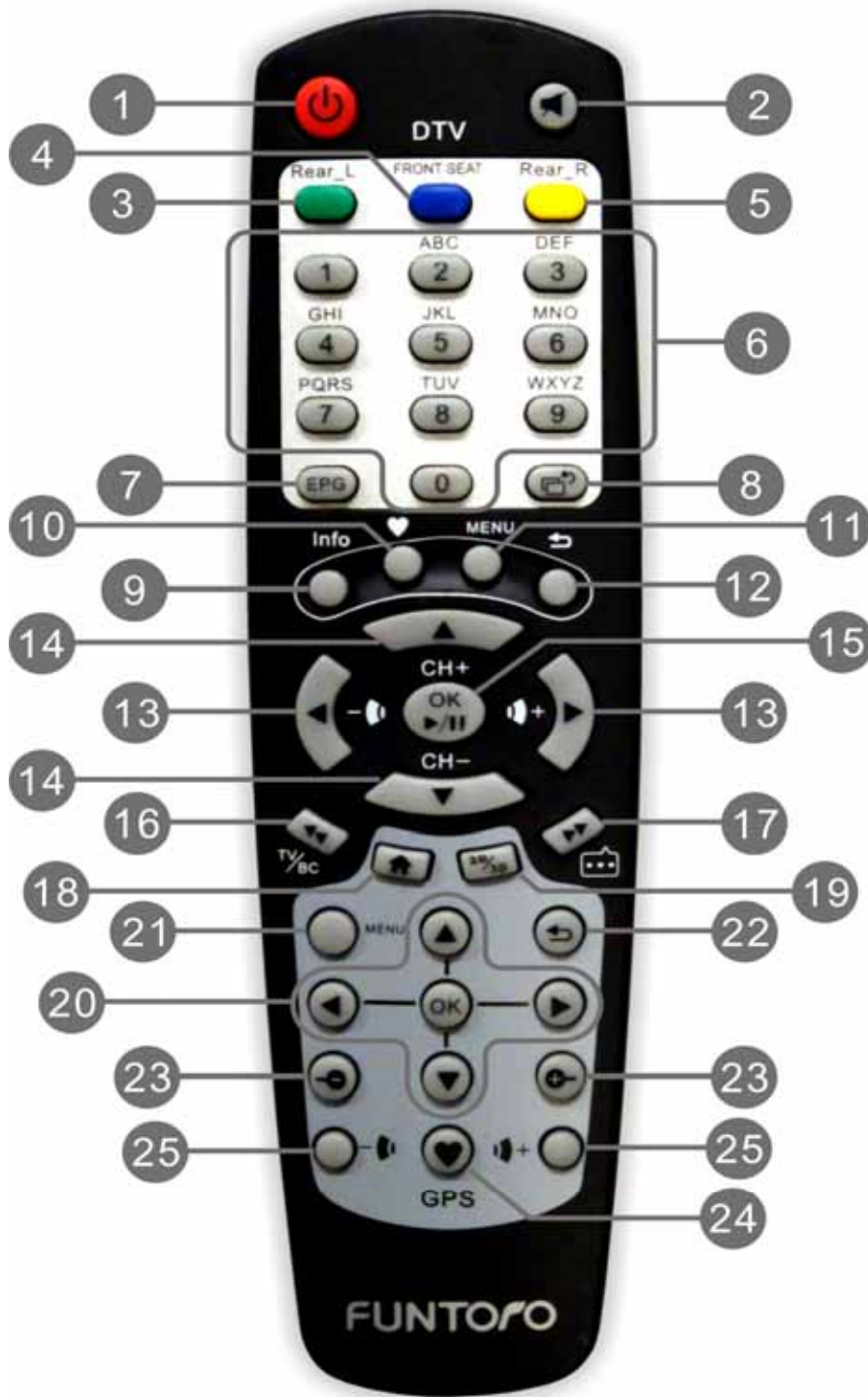


Figure 3 Remote control key definition

Key ID	Function name	Description
1.	Power Button	Turn on/ off the product
2.	Mute Button	Turn in/ off the volume of the product- The TV speaker and USB will be muted.
3.	Rear Left Monitor Control (Green button)	Toggle the source display of rear left monitor. The toggling sources have 3 groups: A: TV, USB and Game in the same group A B: GPS navigation in group B. C: AUX-IN in the group C.
4.	Center Monitor Control (Blue button)	Toggle the source display of central monitor, 2-DIN for example. The toggling sources have 3 groups: A: TV, USB and Game in the same group A B: GPS navigation in group B. C: AUX-IN in the group C.
5.	Rear Right Monitor Control (Yellow button)	Toggle the source display of rear right monitor. The toggling sources have 3 groups: A. TV, USB and Game in the same group A B. GPS navigation in group B. C. AUX-IN in the group C.
6.	Numeric Buttons	1. Enter channel number to select the channel 2. .Enter the number for address while the selected source is GPS navigation.
7.	EPG	Turn TV Electronic Program Guide on or off.
8.	SWAP	Switch back and forth between the current channel and the one previously selected
9.	Info	Display/hide information on current channel.
10.	Favorite Channel	Add/delete favorite channels.
11.	Main Menu	Display the main menu including GPS, USB, GAMES, AUX-IN, Ch+/CH-, SETUP and EXIT.
12.	Return	Return to upper (parent) level menu
13.	Volume+/-	Increase/decrease volume.
14.	CH+/CH-	Select next/previous channel from current list of channels.

Key ID	Function name	Description
15.	OK / Play /Pause Button	<ol style="list-style-type: none"> 1. In menus: Confirm a menu selection 2. In the channel select list: Display the list of channels
16.	TV/BC /Backward Button	Switch between TV and radio channels. Backward media content while USB media is playing.
17.	Audio Language Setting/ Forward Button	Chose the language spoken on TV program (Some digital TV companies dispose bi-lingual service.). Forward media content while USB media is playing.
18.	Navigate to home	Short cut button to setup routine path to home directly.
19.	2D/3D	Toggle the map display between 2D and 3D styles.
20.	5-way direction button	<ol style="list-style-type: none"> 1. Move up/down/left/right direction in map or menu mode 2. OK to confirm Navigation software selection.
21.	GPS Menu Button	Activate GPS navigation main menu.
22.	GPS Return Button	Return to upper (parent) level menu of navigation software
23.	Zoom in /out Button	To zoom in/ out the navigation display area.
24.	GPS Favorite Button	Memorize current location to your favorite list.
25.	GPS Vol+/Vol- Button	Increase/Decrease GPS navigation speaker volume.

2.3. Power on/off

The product is switched on and off together with the ignition. You can switch the product into stand-by mode or turn it back on again using the remote control:

- ☞ Press the **Power** button to switch the product into or out of stand-by mode.
- ☞ You can also turn on the tuner by pressing the number keys if the displayed screen in TV mode.

2.4. Toggle Source selection- Group A (TV, USB, GAMES)/ Group B (GPS Navigation)/Group C (AUX-IN)

The product supports 3 independent zone playback system including driver 2-DIN console, rear-left seat and rear-right seat monitors. Every zone shall have its own source toggling button to switch sources.

2.4.1. Toggle source selection by Remote control

The toggling source buttons of remote control-

Green button (Rear_L): Toggling the input sources including group A (TV, USB, GAMES), group B (GPS navigation) and group C (AUX-IN) for driver 2-DIN console.

Blue button (FRONT SEAT): Toggling the input sources including group A (TV, USB, GAMES), group B (GPS navigation) and group C (AUX-IN) for driver 2-DIN console.

Yellow button (Rear_R): Toggling the input sources including group A (TV, USB, GAMES), group B (GPS navigation) and group C (AUX-IN) for driver 2-DIN console.

Toggle source selection by Touch screen

1. Touch and hold the right-up corner of the screen within 3 seconds if there is no any menu or sub-menu on the screen.
2. The main menu (refer to Figure 4 Main menu) shall be showed up.
3. Select the targeted source to display or operation.

2.5. Main menu



Figure 4 Main menu

2.5.1. Movie



Icon:






- ☞ Select Movie icon to activate movies function by touching the screen or using the remote control.
 - ☞ If the USB memory stick and SD card have movie contents, when the device is inserted, the USB and SD card icon will appear on the screen, select the icon to read the contents of these devices by touching the screen or using the remote control.
 - ☞ To stop or play/pause the movie, touch on the screen and select on  or  icon or use the remote control to perform this action.
 - ☞ Select icon  to change the audio language
The movie must be in VOB format to perform this action.
 - ☞ Select icon  to change the language OSD on the screen.
The movie must be in VOB format to perform this action.
 - ☞ Touch on the screen to turn off the **control bar.(Pic)**
 - ☞ Select the icon  to go back to the main menu or using the remote control.
-







Figure 5 Movie Menu


The format of the movie must be in MPEG 1/2/4, AVI or VOB



2.5.2. Photo



Icon:

- ☞ Select Photo icon to activate photos function by touching the screen or using the remote control.
- ☞ If the USB memory stick and SD card have photo contents, when the device is inserted, the USB and SD card icon will appear on the screen, select the icon to read the contents of these devices by touching the screen or using the remote control.
- ☞ Select the icon  or  to see the previous photo or next photo by touching the screen or using remote control.
- ☞ To select the picture as favorite picture, select the icon  by touching the screen or using the remote control.
- ☞ Select the icon  to go back to the main menu or use the remote control to perform this action.

To stop or play/pause the music, touch on the  screen and select on

 or  icon or using the remote control.

☞

The photo format must be in JPEG.




Figure 6 Photo Menu


2.5.3. Music




Icon;

- ☞ Select Movie icon to activate music function by touching the screen or using the remote control.
- ☞ If the USB memory stick or SD card have music contents, when the device is inserted, the USB and SD card icon will appear on the screen, select the icon to read the contents of these devices by touching the screen or using the remote control.

To stop or play/pause the music, touch on the screen and select on  or

 icon or use the remote control to perform this action.

☞ Click the icon  once to repeat the music and twice to repeat all musics.



- ☞ To add the music as favorite music, select the icon  by touching the screen or using the remote control.
- ☞ Select the icon  to go back to the main menu or use the remote control to perform this action.
- The music format must be in MP3.



Figure 7 Music Menu

2.5.4. GTV (Optional)



- ☞ Please refer to ST100 series User Manual.



Figure 8 GTV Main Menu

2.5.5. USB



Icon:

- ✎ Insert the USB memory on the USB slot on the monitor (SP200-P) and select the USB icon by touching the screen or using the remote control, please refer to section 2.5.1 , 2.5.2 and 2.5.3 to play movies, photos and musics.

The Format that the device doesn't support will not appear on the list



Figure 9 Read USB Data

2.5.6. Aux in



Icon:

Allow you to insert video devices such as AV games (the game device must have AV out function) or other video devices.

Insert the RCA cable to the “S” cable or connect to the AV in on the monitor SP200-P, and select AV1(AV-in on the monitor SP200-P) or AV2 (RCA cable) by touching the screen or using the remote control.



Figure 10 AUX-IN Menu

2.5.7. Sharing



Icon:

On movie, photo and music display, there is a sharing function that allow to share the contents on your monitor with others, while playing the content, select sharing icon by touching the screen or using the remote control, the other monitors will appear sharing icon on the left top of the monitor, select the sharing icon, the content will be shared. After sharing, you can play forward or backward the content without interfering others.

The contents of USB memory stick which plugged on the monitor SP200-P cannot be shared.