

User Manual

Manuel d'utilisation

Manuale dell'utente

Benutzerhandbuch

Manual de usuario

Gebruikershandleiding

Руководством пользователя

- Please read this manual carefully before operating your set and retain it for future reference.
- Designs and specifications are subject to change without prior notice.
- Please visit the Ssangyong Motor online Webpage for the detail information about the Car smart audio system.
  - LCD Audio manual download website address : <http://www.smotor.com>

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■ LCD Audio Software Upgrade

- Upgrade LCD Audio Software download URL : <http://ssangyong.navshop.com/downloads/>
  1. Connect the SD CARD with your computer
  2. Go to Upgrade page (URL).

- LCD Audio Detailed Manual download URL : <http://www.smotor.com>

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Safety Warnings	Safety Cautions
<ul style="list-style-type: none"><li>■ Even when receiving route guidance from the Multimedia, please abide by actual traffic and road regulations.</li><li>■ Do not stare at the screen while driving. Staring at the screen for prolonged periods of time could lead to traffic accidents.</li><li>■ Do not operate the Multimedia system while driving, such as entering POIs or conducting route searches. Such acts could lead to traffic accidents.</li><li>■ Park the vehicle before operating the device.</li><li>■ Do not disassemble, assemble, or modify the Multimedia system. Such acts could lead to accidents, fire or electric shock.</li><li>■ Heed caution not to spill water or introduce foreign objects into the device. Such acts could lead to smoke, fire or malfunction.</li><li>■ If abnormalities occur, such as introduction of foreign materials or smoke due to exposure to water, immediately discontinue use and inquire with your place of purchase or designated maintenance center.</li><li>■ Continued use as is could result in product malfunction.</li><li>■ Refrain from use if the screen is blank or no sound can be heard. These signs indicate product malfunction and continued use may lead to accidents (fires, electric shock).</li><li>■ Do not stop or park in parking-restricted areas to operate the product. Such acts could lead to traffic accidents.</li></ul>	<ul style="list-style-type: none"><li>■ Pay attention to traffic conditions while driving.</li><li>■ Operating the device while driving could lead to accidents due to a lack of attention to external surroundings. First park the vehicle before operating the device. In addition, the touch screen may not work for some functions when the vehicle is in motion. The touch screen feature will be supported once the vehicle has stopped.</li><li>■ This product is intended for use within only automobiles. Refrain from installing this device in products other than automobiles.</li><li>■ If you want to change the position of device installation, please inquire with your place of purchase or service maintenance center. Technical expertise is required to install or disassemble the device.</li><li>■ When cleaning the device, make sure to turn off the device and use a dry and smooth cloth. Never use tough materials, chemical cloths, or solvents (alcohol, benzene, thinners, etc.) as such materials may damage the device panel or cause color/quality deterioration. When experiencing product malfunctions, inquire with your place of purchase or service maintenance center.</li><li>■ Do not subject the device to severe shock or impact.</li><li>■ Direct pressure onto the front side of the monitor may cause damage to the LCD or touch screen.</li><li>■ Operating the device for long periods of time with the ignition turned off will display a battery discharge warning on the screen. Operate the system with the ignition turned on.</li></ul>

Key Product Features

Key Product Features			
This device is a Multimedia system that supports Radio (FM, AM, RDS), USB Video, USB Music, USB Photo and HDMI. The 7-inch WIDE VGA LCD provides high quality resolution while the powerful and rich sound system adds to driving enjoyment. In addition, the rear view camera increases safety when reversing by providing a wide field of vision of the rear side.			
Feature	Description	Feature	Description
Display	<ul style="list-style-type: none"><li>■ Wide LCD Display</li><li>■ Provides high quality video and music simultaneously through the 8-inch wide screen display</li><li>■ Touch screen for maximum user convenience</li><li>■ Enables selection of video screens according to situation</li><li>■ Possible to select screen proportion, such as NORMAL, FULL and WIDE</li></ul>		
Radio	<ul style="list-style-type: none"><li>■ Radio Digital Tuner Feature</li><li>■ Possible to save 6 independent present bands for FM1, FM2 and AM broadcasts each. The system uses a one-chip digital radio solution.</li><li>■ RDS(Radio Data System) AF, REGION, TA, TP, PTY</li><li>■ Integrated (Radio + NAVI) Antenna</li><li>■ Outstanding reception using a high-sensitivity integrated antenna.</li></ul>	Bluetooth	<ul style="list-style-type: none"><li>■ Bluetooth Connection Feature</li><li>■ Provides Hands-Free feature that enables drivers to make wireless calls while driving as well as music enjoyment through Audio Streaming.</li></ul>
		Miscellaneous	<ul style="list-style-type: none"><li>■ Digital Screen Control Features</li><li>■ Easy control of screen brightness, contrast, color and saturation through touch screen.</li><li>■ Rear Detection Camera</li><li>■ Shows the vehicle rear side when positioning the gear in reverse.</li></ul>
USB MEDIA	<ul style="list-style-type: none"><li>■ Media Auto Search Feature</li><li>■ Automatically identifies media files, including video, audio and photos, saved in the media and displays as lists for convenience.</li></ul>		

Location of controls

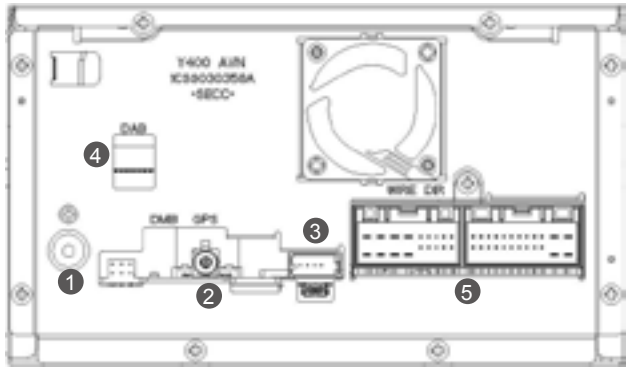
Front View



Button	Description
	POWER/VOL 1. Used the turn the power ON/OFF or control the volume. 2. Press and hold (over 1.5 seconds) to turn the power OFF. 3. Press shortly to turn the AV ON/OFF. 4. Turn left/right to control volume.
	MODE 1. Converts to MODE selection screen. 2. Displays the most recent AV screen regardless of whether AV is ON/OFF.
	SETUP 1. In all modes, press and hold (over 1.5 seconds) to display LCD Audio System Settings screen. 2. In Radio mode, press shortly to display Radio Settings screen.
	PHONE 11. Converts to Bluetooth Call Menu.
	RADIO 1. Converts to Radio Main Menu.

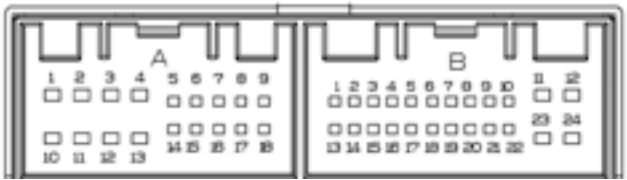
Location of controls

Rear View



- 1) Radio Antenna Jack  
- To plug the radio antenna cable
- 2) GPS Antenna Jack  
- To plug the GPS antenna cable
- 3) USB Port  
- To connect a USB connector for USB host function
- 4) DAB Port  
- To plug the DAB antenna cable
- 5) I/O Connector (42 pin)

LCD Audio 42P CON-



LCD Audio			
PIN NO.	SPEC	PIN NO.	SPEC
A1	RL+	B1	-
A2	FL+	B2	LOW_CAN_H(CLUSTER)
A3	FR+	B3	AVM_ON/OFF_SW
A4	RR+	B4	ST_REMOCON_IN
A5	REAR_OUT_GND	B5	-
A6	NC_E-CALL_MUTE	B6	-
A7	ALT_IN	B7	-
A8	ILL+	B8	AUX_R_IN
A9	REVERSE	B9	AUX_GND
A10	RL-	B10	MIC+
A11	FL-	B11	ACC
A12	FR-	B12	BATT+
A13	RR-	B13	NC_AVM_POWER
A14	REAR_OUT_VIDEO_GND	B14	LOW_CAN_L(CLUSTER)
A15	REAR_OUT_VIDEO_OUT	B15	AVM_ON/OFF_SW_GND
A16	DOOR_UNLOCK	B16	SPEED
A17	ILL-	B17	ST_REMO_GND
A18	ANT_B+	B18	-
		B19	-
		B20	-
		B21	AUX_L_IN
		B22	MIC-
		B23	MIC_GND
		B24	P_GND

Steering Wheel Controller

Steering Wheel Controller



Button	Description
1	Bluetooth Hands-free call switch for mobile phone calls
2	In File Play Mode - When MODE switch is pressed in up/down direction: when playing MP3 or Videos, changes to the previous or next file  In Radio Mode - When MODE switch is pressed shortly in up/down direction: manually searches frequencies changes to preset channels - When MODE switch is pressed and held: in up/down direction: automatically searches broadcast frequencies
3	Turns the volume up/down.
4	When LCD Audio is turned on, press and hold this switch to turn audio off. When LCD Audio is turned on, shortly press this switch to MUTE. Press again to turn MUTE off and restore sound. During a Bluetooth Hands-free call, press this switch to end the call.
5	In Radio Mode - Press and hold this switch to change radio mode in FM1 → FM2 → AM order.  In USB MEDIA Mode - Press and hold this switch to change USB MEDIA mode in MUSIC → VIDEO → PHOTO order.

# Basic Operation

## Starting the System



1. Set the ignition key to ON or ACC.



2. The Ssangyong Motors logo is displayed and the system will boot.



3. Once booting is complete, the most recent mode will operate.

## MODE



1. Press the MODE button to convert to MODE selection screen.

## Turning the System Off

1. Press and hold (over 1.5 seconds) the POWER/VOL button to turn the power off. When the system power is turned off, the final operating mode is saved. When the ignition is turned on again, the system will automatically turn on the most recently operated mode. However, if the final mode was Bluetooth audio, then the mode prior to Bluetooth will operate.

## Resetting the System



1. Press the MODE and SETUP button simultaneously.
2. The system will turn off and reboot.

## Settings



1. Press and hold (over 1.5 seconds) the SETUP button to convert to LCD Audio Settings screen.

## AV ON/OFF



1. When the AV is ON/OFF, shortly press (under 1.5 seconds) The PWR/VOL button to turn the AV ON/OFF and display.

## NOTICE

- Resetting the system will restore all existing settings and configurations back to their default states. This is to ensure device stability.

# SYSTEM SETTINGS

## SYSTEM INFO



1. Press and hold (over 1.5 seconds) the SETUP button on the front panel.

## Settings Menu



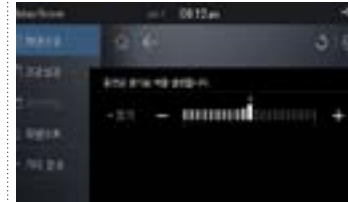
1. In Settings screen, select the desired mode.

## Sound Settings



1. Used to set sound fader/balance, EQ and other sound settings.

## Display Settings



1. Used to set screen brightness, size and other display settings.

## Clock Settings



1. Used to set the time.

## Voice recognition



1. Used to Voice recognition setting

## System Information



1. Used to check system information and Reset/Upgrade/Select Language.

## Selecting MODE

### LCD Audio



1. Press the MODE button on the front panel.

### MEDIA MODE



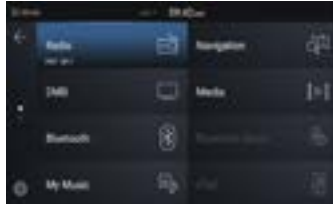
1. You can enjoy preferred MEDIA, such as USB MUSIC/VIDEO/PHOTO.

### USB Music Mode



1. USB devices can be connected to listen to music.

### MAIN MODE



1. In Mode screen, select the desired mode.

### Bluetooth MODE



1. Mobile phones can be connected via Bluetooth to make and receive calls.

### RADIO MODE



1. You can enjoy RADIO and RDS information.

### Bluetooth Music MODE



1. Bluetooth devices can be connected to listen to music.

### Carlink MODE



1. Mobile phones can be connected via wireless to make and Carlink Mode.

### Carplay MODE



1. Devices can be connected via usb cable to mobile phones make carplay mode.

### Andoid auto MODE



1. Devices can be connected via usb cable to mobile phones make Android auto mode.

## Starting Rear Detection Camera Mode

### This device is connected to a rear detection camera to acquire rear field of vision for safe reversing.

- When placing the car in reverse, the rear detection camera will begin operating regardless of the current mode and display the rear view on the monitor.
- When the gear is shifted to another position, the rear detection camera deactivates and restores the previously operating screen.
- Even when the device power is off, shifting to reverse will automatically turn on the device and operate rear detection camera mode.
- When reversing, the volume and mute can be used to improve concentration on external conditions.








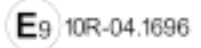
1. Place the ignition switch to ON or IGN position.
2. Shift the gear to R.

### CAUTION!







- Rear Detection Cameras use wide-angle lens to acquire a wider view, so there may be differences between the actual distance and the distance that appears on the screen. For safety, make sure to check the rear, right and left sides of the car yourself.
- Only the volume and incoming call features will operate when operating the rear detection camera.



Product Specifications

Common	Name	Car TFT LCD Display Audio UNIT	Video	Supported Files	
	Power Supply	DC 14.4V		Codec	
	Operating Power	DC 9V ~ DC 16V			
	Current Consumption	2A			
	Sleep Current	3mA(Head Unit Only)			
	Operating Temperature	-30℃ ~ +75℃		Audio	Subtitle Support/Resolution
	Storage Temperature	-40℃ ~ +85℃			
	Dimensions	xxmm × xxmm × xxmm			
	Weight	2.2Kg			
Display	Screen Size	167.8mm(W) x 104mm(H) x 6.4mm(D)(7.0" WVGA)	Photo	File Format	JPEG, BMP, PNG
	Resolution	384,000 pixels (Resolution : 800 x 480)	Bluetooth	Compatibility	BLUETOOTH V2.1+EDR
	Operating Method	TFT Active Matrix Method		Frequency Band-width	2402 ~ 2480MHz
	Backlight	LED Method		Supported Profiles	MP3 Play, Hands-Free
Radio	Frequency Range	FM: 87.5MHz~108.0MHz(Step : 0.05MHz) AM: 522KHz~1620KHz(Step : 9KHz)		Transmission Output	Max +4dBm (CLASS2 Support)
	Sensitivity	FM: 10dBuV, AM: 40dBuV EMF	Certification	     	
Storage Device	SD	1 slot			
	USB	1 photo , USB2.0 HOST			
	Format	FAT 32			

Specifiche del prodotto

Comuni	Nome	Audio con schermo LCD TFT per auto	Video	File supportati		
	Alimentazione	14.4 V DC		Codec		
	Tensione operativa	9V DC ~ 16V DC				
	Assorbimento di corrente	2A				
	Corrente in riposo	3 mA (solo unità principale)				
	Temperatura d'uso	-30 °C ~+75 °C				
	Temperatura di conservazione	-40 °C ~ +85 °C				
	Dimensioni	XX mm × XX mm × XX mm				
	Peso	2.2 Kg				
Schermo	Dimensioni schermo	167.8 mm(L) x 104 mm(A) x 6.4 mm(P)(7.0"VWGA)	Audio	File supportati	MP3, WMA, OGG, AC3, APE, FLAC	
	Risoluzione	384.000 pixel (Risoluzione:800 x 480)		Intervallo di frequenze radio	20Hz ~ 20KHz	
	Metodo di funzionamento	Matrice attiva TFT		Foto	Formato file	JPEG, BMP, PNG
	Retroilluminazione	LED				
Radio	Intervallo di frequenze	FM:87.5 MHz ~ 108.0 MHz (Incremento:0.05 MHz) AM:522 KHz ~ 1620 KHz (Incremento:9 KHz)	Bluetooth	Compatibilità	BLUETOOTH V2.1 + EDR	
	Sensibilità	FM:10 dBuV, AM:40 dBuV EMF		Larghezza di banda della frequenza	2402 ~ 2480 MHz	
Dispositivi di archiviazione	SD	1 slot, 8 GB (in dotazione), SD-HC		Profili supportati	Riproduzione MP3, vivavoce	
	USB	1 Host USB 2.0 foto	Uscita trasmissione	Max +4 dBm (supporto Classe 2)		
	Formato	FAT 32	Certificazioni	<div><div><b>Bluetooth</b> <small>QD ID : 58103</small></div><div><b>CE 1177</b></div><div><b>RoHS</b></div><div><b>EAC</b></div><div><b>DOLBY</b></div><div><b>E9</b> 10R-04.1696</div></div>		

This equipment is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

### **European Union Regulatory Notice**

Compliance with these directives implies conformity to harmonized European standards (European Norms) that are listed in the

EU Declaration of Conformity issued by Inkel corporation for this product or product family. This compliance is indicated by the following conformity marking placed on the product.



**The wireless telecommunications functionality of this product may be used in the following EU and EFTA countries:**

Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, and United Kingdom.

### **CE RF Radiation Exposure Statement:**

**Caution** This equipment complies with European RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



### **FCC Information to User**

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 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.

### **Caution**

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**FCC Compliance Information :** 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

### **IMPORTANT NOTE:**

#### **FCC RF Radiation Exposure Statement:**

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.