REAR SEAT ENTERTAINMENT

OWNERS MANUAL

Please read this manual for proper operation and keep it for future reference.

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Thank you for your purchase of Toyota genuine "Rear Seat Entertainment" as called RSE. Please read through this owner's manual thoroughly and carefully in order to properly operate this equipment. Please keep this owner's manual in a safe place for further reference on operating procedures and notices.

Important Notice

It is illegal for passengers to view the screen in some countries or states. If situated in such regions where these regulations apply, these regulations must be complied.

Note

- Be reminded for safety driving. While device is operating; may limit the driver's rear vision.

- Please close the display before turning off the engine to ensure the product's longevity.

- Please do not let the product get in contact with water.

- If the product cannot operate normally, please contact the dealer or a nearby service center.

- Do not attempt to disassemble the machine by yourself in case of possible danger or further malfunctions occur. The insurance do not cover this issue.

- Please do not use mobile phone while operating this product to prevent the sound disturbance.

- Do not expose remote control to direct the sunlight or excessive heat.

- Do not leave remote control on car mat. It may make accelerator or brake pedal stuck.

Please make sure that the items listed below are in the package. If there is any missing part, please contact the dealer where the product was bought. Please read and understand the operation of this product before operating and please follow this owner's manual.

Remote Control (with 2 AAA Battery)	IR Earphones (optional) (with 2 AAA Battery)
Roof-Mounted Monitor	Owner's manual
Note: LCD Display 10.2" and 8" without DVD are available.	Note: Language of owner's manual depends on each country.

Product Features

- Adopt LCD display with free angle adjustment of monitor.
- Support three kinds of aspect ratios [FULL, WIDE, NORMAL].
- Allow automatic switching to NTSC/PAL system.
- Support AV input & HDMI input. (Depended on kind of TOYOTA FRONT CAR Radio)
- RSE can be controlled with remote control.
- Support USB 2.0
- Support Miracast and DLNA.
- IR earphones are supportive. (optional)
- FM Transmitter is supportive.

RSE Panel Button & Functions
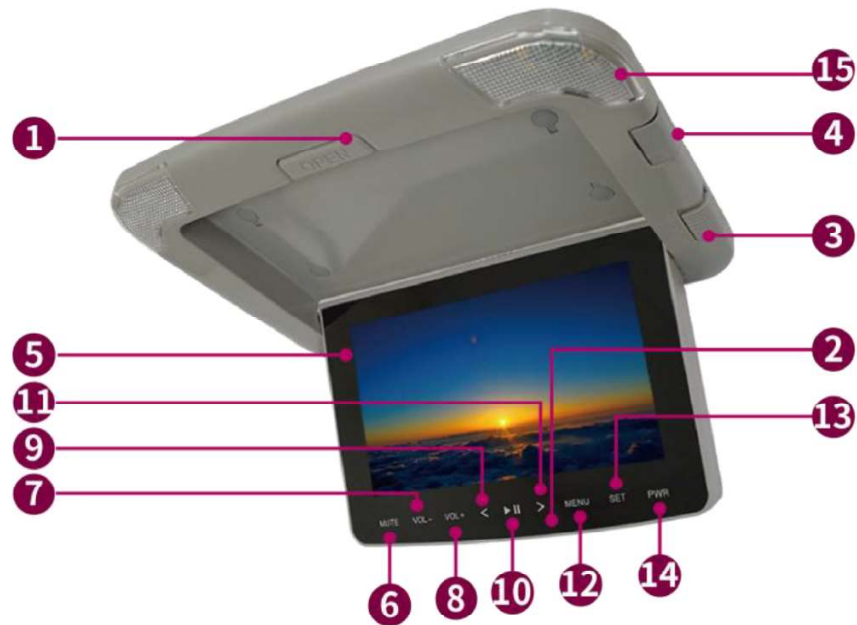
1.	**Display release button**	Press to open the TFT monitor. (The monitor will automatically drop down.)
2.	**IR emitter and receiver**	Use the IR emitter to transmit the sound to the IR earphones and receive the signal from the remote control.
3.	**Dome lamp switch**	Switch to select to ON, DOOR or OFF.
4.	**USB Port**	Support version 2.0
5.	**Display**	10.2 inch with WXGA (1280x800) 8 inch with WSVGA (1024x600)
6.	**Mute**	Press to mute audio and press again to unmute.
7.	**Volume Down**	Reduce the volume.
8.	**Volume Up**	Increase the volume.
9.	**Previous button**	Press to move selection to left. For USB mode, press to skip to previous layer.

Basic Functions

10.	**Play / Pause button**	Press to confirm on the menu. For USB mode, press to play or pause.
11.	**Next chapter button**	Press to move selection to right. For USB mode, press to skip to next layer
12.	**Menu button**	Press MENU to enter media sources.
13.	**SET button**	Press to enter setting mode.
14.	**Power button**	Press PWR button to turn ON or OFF the RSE.
15.	**Lamp**	Average lifetime of LED lamp is 10,000 hrs.

Note

- Please use LED only from original LED manufacturer. Other LEDs may cause overheat or other damages.

- Mute, VOL-, VOL+, <, ▶❚, > button are not available while video source playing.

Remote Control Functions

1.	**POWER**	Press to turn the RSE on/off.
2.	**MENU**	Press to enter menu page.
3.	**RATIO**	Press to shortcut into ratio adjustment.
4.	**RETURN**	Press to go back to the previous layer, file, or folder.
5.	**SET**	Press to enter setting mode.
6.	**Orientation keys**	Press to move up, down, left, right or OK on the screen.
7.	**Volume adjustment keys**	Press -/+ to adjust the volume.
8.	**MUTE**	Press to mute audio and press again to unmute.

9.	**Play/Pause**	Press to play/pause the video or audio and press it again to continue playing the video or audio. (This function is similar to other general entertainment products.
10.	**Rewind/Forward**	Press to rewind/fast forward the playback. (x1.5, x2, x4, x8, x16, x32)
11.	**Previous/Next**	Press to skip to previous or next files or folders.
12.	**Stop**	Press to stop playing.
13.	**USB**	Press to enter USB mode directly.
14.	**SRC**	Press to enter A/V or HDMI source directly.
15.	**Repeat**	Press to turn repeat function on.
16.	**Miracast/DLNA**	Press to enter Miracast/DLNA mode directly.
17.	**IR**	Press to activate IR headphone function. Press again to deactivate IR headphone.
18.	**BRIGHT**	Press to enter bright adjustment directly.

.

Note
- RETURN, Orientation keys, Volume adjustment keys, MUTE, Play/Pause, Rewind/Forward, Previous/Next, Stop, Repeat button are not available while video source playing.

How to Operate IR Earphones

IR Earphones Functions

1. **POWER**:
   - Switch to OFF to turn the earphones off.
   - Switch to A to output sound. (No function if switching to B.)

2. **VOLUME**:
   - Scroll the knob for volume control.

3. **IR sound receiver.**

Caution

- Do not cover IR receiver with hands or other objects. Otherwise, it will affect the sound quality.

4. **Power LED indicator.**
   - Indicate the status of the earphones.

5. **Battery cover**: Needs size AAA batteries.

MENU

- Turn on RSE and the menu will display on the screen.

- Select the desired mode and the icon will turn light blue.
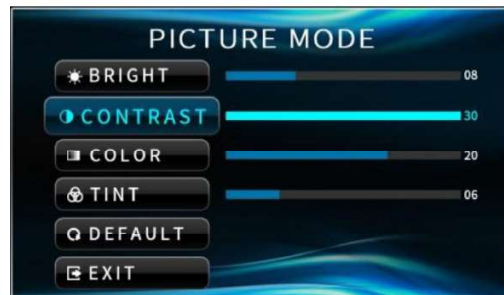
Setting

MONITOR

- Press SET on the remote control/on the panel

  Or select setting icon directly to enter setting mode.

- Select MONITOR.

1. **Screen Mode**

- Use the orientation keys/vol keys on the panel to press SCREEN MODE to adjust ratio setting: full, wide and normal.
- After selecting, choose EXIT to exit.

2. **Picture Mode**

- Use orientation keys/vol keys to enter PICTURE MODE to adjust the parameter: brightness, contrast, color,tint or back to default.
- Choose EXIT to exit.

FM TRANSMITTER

- Press SET on the remote control/on the panel.

  Or select setting icon directly to enter setting mode.

- Select FM TRANSMITTER.

(Move up and down by using orientation keys on the remote control or vol keys on the panel.)

- Select FREQUENCY to set the channel that you would like to link with the front device by using orientation arrows on the panel or on the remote control.

- Select ON of transmitter option to turn this function on.

- Select OFF of transmitter option to turn this function off.

- Choose EXIT to exit.

Note

- If users must transmit the audio from RSE, use FM Transmitter to transmit the sound signal to the front car radio device.

- Normally, while playing media files via FM transmitter function, sound quality is equivalent to the radio.

- If the environmental FM frequency is too strong, the signal could be interfered. In that case, change other FM frequency as advice.

- USB, Miracast and DLNA still send sound via FM transmitter although TFT closes.

IR TRANSMITTER

- Press SET on the remote control/on the panel.

  Or select setting icon directly to enter setting mode.

- Select IR TRANSMITTER.

- Select ON for to transmit the sound to the IR earphones.

- Select OFF to turn this function off.

- Choose EXIT to exit.

Note

- When display is closed, the sound of USB, Miracast and DLNA cannot transmit via IR earphone.

- This function is operational with IR earphones. Refer to page number 9 for IR earphones operation instructions.

General Operations

Button LED

- Press SET on the remote control/on the panel.

  Or select setting icon directly to enter setting mode.
- Select BUTTON LED.

- Select setting to turn on/off/auto the LED.
- AUTO: LED will be automatically on, but it will be off within 10 seconds.
- ON: LED will be always on.
- OFF: LED will be always off.
- Choose EXIT to exit.

Note

- Button LED default setting is ON.

Enter A/V or HDMI mode

- Press SRC button on the remote control

  Or select Video Source icon on the menu to switch to A/V mode or HDMI mode.

Note

- The input source may have A/V source or HDMI source depends on the different front car radio.

- A/V: The video source of the front device is transmitted to the RSE through wire connection.

- NTSC/PAL is supportive on A/V source.

- A/V and HDMI is detected automatically when devices connect successfully.

Connect Failure

When RSE is not connected with front car audio or connected unsuccessfully, the screen will show "Device is not detected." as below.

DLNA (Digital Living Network Alliance) Function

To play digital content from another mobile device which compatible with DLNA (Digital Living Network Alliance) such as music, videos, and images via the same wireless LAN. For more details and compatible devices, please visit the following site: https://www.dlna.org/.

Note:

Before using DLNA function on 10.2" Roof-Mounted Monitor, some mobile devices are required to install application which supported DLNA. Please study application details on APP store (e.g. Apple store or Google play). Reference applications are listed as below.

      1. iMediaShare (for Android & iOS)
      2. TV Assist (for iOS)
      3. BubbleUPnP (for Android)

We do not guarantee the life time of applications on app store. If the one you choose is not available for download or use, please find more DLNA compatible apps on app store (e.g. Apple store or Google play) instead.

Operation method

3.1 Enter DLNA by SRC button on the panel.
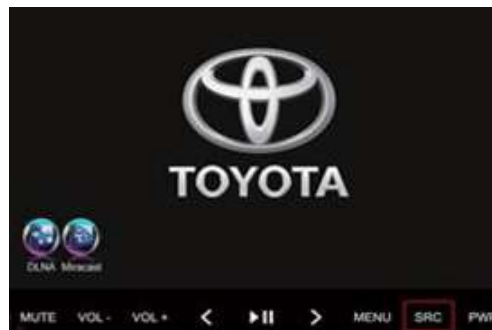
(Roof-Mounted monitor screen)

3.1.1 Press "SRC" until DLNA/ Miracast show on the monitor.
3.2 Enter DLNA by MODE button on remote control.
3.2.1 Press Mode on Remote Control
3.2.2 Select DLNA/Miracast
3.3 Enter DLNA by SOURCE button on remote control
3.3.1 Select the channel until DLNA/ Miracast shown on the screen. 3.4 Please turn on the mobile device Wi-Fi and connect to 10.2" Roof-Mounted Monitor. Make sure 10.2" Roof-Mounted Monitor has already connected successfully. Wi-Fi name will be Toyota RSE XXX.

(mobile device screen)

Note:
- For Wi-Fi setting will be differed from each mobile device. Please refer to the manual for the device to be connected.
- The Wi-Fi name will start with "Toyota RSE" and continues with running numbers.

3.5 Run DLNA application on a mobile device with 10.2" Roof-Mounted Monitor. You can play back music, videos and images on the compatible device which Human Machine Interface (HMI) may differ, depending on application.

About the supported mobile devices

This function is compatible with most devices using Android 4.2 or higher and iOS 6.0 or higher.

Note:
-The warranty does not apply if an unsupported Android or iPhone device is connected.

-This function depends on compatibility of a mobile device, OS and version. The performance might be different and cannot guarantee.

Note:
- The connection quality depends on Wi-Fi signal quality.
- Only one mobile device can be connected to 10.2" Roof-Mounted Monitor via Wi-Fi at the time.

 In case, another device is in queue, please end up the connection of the current using mobile device firstly.
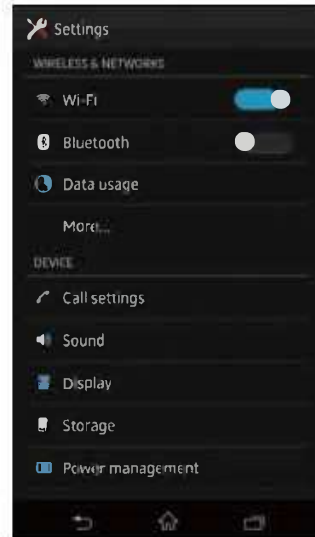
Miracast

Enter Miracast mode
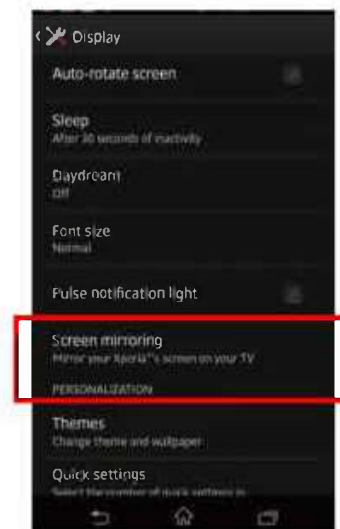
- Press DLNA/Miracast button on the remote control.

  Or Select Miracast/DLNA icon directly on the screen.

- Go to Settings on phone.
  - Select Display.

  - Select Screen mirroring.

- Open "Screen mirroring" on mobile to connect roof monitor "Toyota RSE XXX".
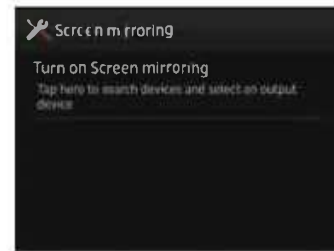
- Select Screen mirroring function to turn on Screen mirroring function.

  This is to connect with roof monitor, TOYOTA RSE XXX.

(The current demonstration is using Sony Xperia ZL. The phones are different in operation interfaces. Please read and understand it from your mobile manual.)

Note

- The device name "Toyota RSE XXX" will show under Toyota Logo.

- When connecting to Miracast successfully, the screen of the mobile will display on screen of RSE.

Example:

Connect Failure

When Miracast is not connected, the screen will show "Please Disconnect Miracast."

USB playback

Enter USB mode

- Press USB button on the remote control.

  Or select USB Media on the main menu directly.

- Enter USB mode and select files or folders for playing.

  Files can be selected by pressing ◀ ▶ on the remote control or pressing < > on the panel.

USB

Connect Failure

When USB is not detected, the screen will show "Device is not detected."
as below.

✎ Note
- iPod is not supportive.
- If the USB is encrypted, it cannot be read on RSE.

General specification

1	Applicable voltage	D/C10.5V~16 V
2	Storage temperature	-40℃ ~85℃
3	Operating temperature	-20℃ ~ 70℃
4	HDMI	480p / 720p / 1080p
5	FM Transmitter	88.1MHz~97.9MHz
6	Video system	NTSC / PAL (AUTO)
7	Connection port: Image port → Video input X1 (connector) (WIRE connection)	HDMI X1 (connector)
8	Power consumption	< 33W
9	USB	2.0 version Encryption is not supported.

LCD Monitor

1	TFT Dimension	10.2 inch (318mm x 228mm x 43.6mm) 8 inch (287mm x 198mm x 36.1mm)
2	Display Resolution	10.2 inch 1280(W) x 800 (H) 8 inch 1024 (W) x 600 (H)
3	Brightness	10.2 & 8 inch 500cd/m^2

Remote control

1	IR function key	25 keys
2	Affective range	<= 3 meters
3	Battery	Lithium (3V) 2AAA Batteries

Supportable File Type for USB

	Format
Video File Types	VOB、MP4(480P、720P、1080P)、 3PG、AVI、FLV、F4V、MKV、MOV、MPG
Audio File Types	OGG、MP3、M4A、AAC
Photo File Types	BMP、JPG

Specifications

Supportable Mobile Phones and Setting

Brand	Model Name	How to Access Miracast Function
Asus	Padfone Infinity 8	Setting→Display→Wi-Fi Mirror Share
	Zenfone 5	Setting→More→Play to
Coolpad	YL-9960	Setting→Display→Wi-Fi Mirror Share
HTC	New One, Butterfly	Settings→Media output
Sony Electronics Inc.	Xperia AX, Xperia TL, Xperia ZL, Xperia TX, Xperia T, Xperia V, Xperia Z	Settings→Display→Screen Mirroring
	Xperia Z2	Settings→Xperia connectivity→Screen mirroring screen
Samsung	Galaxy S3, Galaxy Note 2, Galaxy Tab 10.1, Galaxy S4	Settings→More→AllShare Cast (The software should be version 4.1.2 or above version)Mirroring
	Galaxy S6 A7	Slide down the screen→Edit→Screen mirroring
	Galaxy S7	Slide down the screen→Edit→Smart view
Google Inc.	Nexus 4	Settings→Display→Wireless dispaly
LG Electronic Inc.	OptimusG,F200L/S/K(Vu 2,) 240K(G Pro)	Settings→More→Miracast
Oppo	TD, X909	Setting→Display→Wi-Fi Mirror Share
Pantech	IM-A860K/S/L	Setting→Display→Wi-Fi Mirror Share
Sharp	SH-10D, SH-02E, SH-04E, SH-09D, SH-10D, 203SH	Settings→Wireless Output
Xiaomi	MI-2,MI-2A,MI-2S	Wlan display settings→Menu→Wlan Display

- If Miracast application is not provided in your android phone, it means your mobile does not support Miracast function.
- Miracast using method depends on each mobile

Problem and Resolution

Situation	Cause	Countermeasure
Unable to turn device on	Malfunction or noise occur	Turn off the machine then turn it on. If problem still occurs please contact dealers to check.
	The cables do not connect to each other firmly.	Please contact your dealer for solving the issues.
	The fuse blew.	Please contact your dealer for replacement.
Unable to operate the remote control	Battery connects unsuccessfully.	Take off insulator. Check the terminal of battery.
	The battery has too little or no power.	Install new batteries.
The screen is stretched and the aspect ratio is not correct	The settings of the aspect ratio are not correct for the display.	Select the settings to fit for the display.
Sound distorted of Miracast/DLNA mode	Wi-Fi connection of mobile phone is unstable in Miracast/DLNA mode.	Unstable Wi-Fi connection may affect sound quality. It depends on each mobile phone source. Please check the Wi-Fi status while operating.
Color difference	The color settings may incorrect.	Reset Color Setting.
Black/White image	The playback source is not the correct.	Confirm that the appropriate mode of image signals is correctly switched on (AUTO, NTSC or PAL, according to different video)
No audio from IR earphone	The status of MUTE is set as ON.	During video playback, check if the power LED indicators of IR earphone are on. Check MUTE status and set it to OFF.
	The battery has too little or no power.	Install new batteries.
	Battery connects unsuccessfully	Take off insulator. Check the terminal of battery.
Failure A/V mode	The connector is not correctly connected.	Please contact your dealer for solving the issues.