

2019.01.28



201	8.	11	.28
201	8.	03	.28
201	8.	04	.26

COMPONENTS - LC200

LX	Capacitive Touch Cable	Universal Cable
AV Cable	IR Cable	Speaker
External GLONASS GPS Antenna	WiFi/BT Antenna x 2	MIC
Key Pad	GVIF OLD TYPE	Power Toyota
Power Default		

TOUCH COMPONENTS Option (LC200 Touch In/Out)

LC-TOUCH	TOUCH-to-ANDROID	TOUCH-SUB
TOUCH-OUT (4Pin)	TOUCH-IN (4Pin)	FFC Cable (4Pin)

TOUCH COMPONENTS Option (LX570 Touch In/Out)

LX-TOUCH	TOUCH-to-ANDROID	TOUCH-SUB
TOUCH-OUT (8Pin)	TOUCH-IN (8Pin)	FFC Cable (8Pin)

SPEC

※ ANDROID				
OS	Android 7.1.2(Nougat)			
CPU	Six-Core 64bit Server Class Cortex-A72 Core @2.0Ghz,			
	Mali-T860 Quad-Core GPU (Total Ten-Core)			
VPN	H.264/H.265/VP9 up to 4Kx2K@60fps (4K Video)			
Memory	2GB DDR3			
USB	USB2.0 High Speed Port x 1			
USB 3.0	USB3.0 5.0Gbps Port x 1			
Wireless	2.4GHz/5GHz Dual-Band WiFi,			
	Support 802.11a/b/g/n/ac, Bluetooth 4.1			
GPS	Ublox8 GPS(GLONASS/BEIDOU/GALILEO/QZSS/SBAS)			
HDMI OUT	HDMI 2.0, Support maximum 4K@60Hz display			
Speaker	r 2W			
I/O	Mic (voice recognition),			
Temperature	-20°C ~ 80°C			
Operating	-15°C ~ 70°C			
※ INTERFAC	E			
Input Spec.	1 x HDMI IN (1280x720),			
	2 x A/V Input (external video source)			
	1 x CVBS (Front Camera)			
	1 x CVBS (Rear Camera)			
Output Spec.	1 x Audio L/R Output			
	1 x LVDS Output (LCD Operation)			
Power Spec	Input Power: $121/DC \sim 241/DC$			
Tower opec.	Consumption Power: 12 Watt May			
I/O	Input : 10P Dip Switch			
	Output: 12V Output (3A Max)			
	DVB-T IR (Remote Control)			
	DVD IR (Remote Control)			

CONNECTOR PIN ASSIGNMENT-LC200

Power Cable 1 3 5 7 9 11 13 15 (POWER/CAN) 2 4 6 8 10 12 14 16							
1	3	5	7	9	11	13	15
Red	Green	Purple	Blue		Purple	Purple	
ACC	REVERSE IN	TOUCH_SW	ST ADC2		PAD_CAN IN_H	T-BUS P	
2	4	6	8	10	12	14	16
Black			Orange		Brown	Brown	
GND		N.C	RELAY B/L		PAD_CAN IN_L	T-BUS M	







Universal Cable (AV IN/OUT)

1 3 5 7 9 11 13 15 17 19 21 2 4 6 8 10 12 14 16 18 20 22

1	3	5	7	9	11	13	15	17	19	21
White	White	White	White	Blue	White	Yellow	Black	White	Green	Brown
SPK_P	AUX_OUT_R	AUX_OUT_L	MIC_P	Capacitive Touch SCL	Capacitive Touch SDA	Capacitive Touch Interrupt	Resistive Touch X-	Resistive Touch Y-	Resistive Touch X+	Resistive Touch Y+
2	4	6	8	10	12	14	16	18	20	22
Black	Black	Black	Black	Black	Red	Green	Brown	White	Black	Red

DIP S/W INFORMATION-LC200



Android Resolution (ON)

4	5	6	7	8	9	10	Car Model
Off	Lexus RX						
Off	Off	Off	Off	On	Off	Off	Lexus RX200T
Off	Off	Off	On	Off	Off	Off	Lexus LX570 (2013 – 2015)
Off	Off	Off	Off	Off	On	Off	Lexus LX570 (2016 – 2018)
Off	Off	Off	On	Off	On	Off	Lexus ES350
Off	Off	Off	Off	On	On	Off	TOYOTA LC200

RX200T = RX model small monitor

3

LC200 = TOYOTA LAND CRUISER 200

TOUCH IN/OUT BOARDIS OPTIONAL PART

DIP S/W INFORMATION







Pin No.	On	Off
1	N.C.	N.C.
2	Use External GPS Antenna (DIP S/W 2 Must ON)	Use Car GPS Cable (Option)

POWER CABLE INFORMATION-LC200







SCREEN VIEW



1	NAVIGATION	Quick icon for Navigation Application			
2	Multimedia	Quick icon for Multimedia Application			
3	Music Player	Music player Widget			
4	File Manager	Quick icon for File Manager Application			
5	APPS	Application List			
6	Back Button	Return			
7	Home Button	Home			
8	Multitasking	1. Multitasking 2. PIP Mode by Long Press			
9	APP Shortcut	Quick icon			
10	Sound	Volume control			
11	WiFi	Open Wifi setting screen			
12	Settings	Open Android Settings			
13	Zoom Tool	Screen Zoom in / out * This icon will show when car monitor have "Resistive Touch",			

SCREEN VIEW - Split Screen Mode



* Some apps are not work on Split Screen Mode

OEM BUTTON USAGE



No.	Button	Press	Mode	Function
4	MAD	Short Press	ROiK	to Oem screen
1	1 MAP	Long Press (2sec)	OEM	to ROiK screen
2	BACK	Short Press	ROiK	Back key for Android
3	MENU	Short Press	ROiK	to Oem screen
4	▲ (UP)	Short Press	DOIK	
5	▼(DOWN)	Short Press	RUIK	
6	JOG	Short Press	ROiK	Mouse

LC200



No.	Button	Press	Mode	Function
1	HOME	Short Press	ROiK	to Oem screen
^		Short Press	ROiK	to Oem screen
2	2 NAV	Long Press (2sec)	OEM	to ROiK screen
3	INFO	Short Press	ROiK	
4	AUDIO	Short Press	DOIK	
5	PHONE	Short Press	ROIK	
6	SET UP	Short Press	ROiK	

OEM BUTTON USAGE



No.	Button	Press	Mode	Function
1	AUDIO	Short Press	ROiK	to Oem screen
2	MENU	Short Press	ROiK	to Oem screen
3	BACK	Long Press (2sec)	OEM	to ROiK screen
4	DIAL	Short Press	ROiK	Mouse

LX570 (2013 - 2015)



No.	Button	Press	Mode	Function
1	HOME	Short Press	ROiK	to Oem screen
2	AUDIO	Short Press	ROiK	to Oem screen
3	HOME	Short Press	ROiK	to Oem screen
		Short Press	ROiK	to Oem screen
4	NAV	Long Press (2sec)	OEM	to ROiK screen
		Long Press (2sec)	HDMI	to ROiK screen
5	INFO	Short Press	ROiK	to Oem screen
6	PHONE	Short Press	ROiK	to Oem screen
7	SETUP	Short Press	ROiK	to Oem screen

CONNECT CAN/POWER DIAGRAM



CONNECT CAN/POWER CONNECTOR



- Remove original connector.
- Connect supplied connector to audio and original connector.



* Depending on the type of vehicle, the position of "can" may be different.

• Connect 'CAN High/Low" to the original connector from supplied connector





* Please connect power of interface to ACC.* If connect to BAT. There is case of that Rear camera would be not working.

- Connect supplied connector to connector on HeadUnit
- Connect 'CAN High/Low" to the original connector from supplied connector

CONNECT CAN/POWER CONNECTOR



- Remove original connector.
- Connect supplied connector to audio and original connector.



* Depending on the type of vehicle, the position of **"can"** may be different.

Connect 'CAN High/Low" to the original connector from supplied connector



* Please connect power of interface to ACC.* If connect to BAT. There is case of that Rear camera would be not working.

- Connect supplied connector to connector on HeadUnit
- Connect 'CAN High/Low" to the original connector from supplied connector

TOUCH CABLE DIAGRAM - LC200 / LX570



MONITOR FFC SETTING - LC200



Cut off the supplied FFC cable









MONITOR FFC SETTING - LX570

















CONNECT LVDS IN/OUT









- Remove white connector on behind of monitor.
- Cut plastic of white connector and supplied connector
- Connect white connector to supplied connector and supplied connector to behind of monitor.

Car Model	GVIF IN/OUT Connector Color Behind Monitor
Lexus RX	White
Lexus LX570 (2013 – 2015)	Blue
Lexus LX570 (2016 – 2018)	White
Lexus RX200T	Blue
Lexus ES350	Blue
Toyota LC200	White

✗ Different In/Out GVIF according to Car Model

CONNECT LVDS IN/OUT



*** RX200T**

- Remove blue connector on behind of monitor.
- Cut plastic of blue connector and supplied connector
- Connect blue connector to supplied connector and supplied connector to behind of monitor.

DVB-T CONNECTION DIAGRAM FOR AV INPUT





DVB-T CONNECTION DIAGRAM FOR ASUKA



ADD REMOTE CONTROLLER



Enter the setting menu. And DVB-T select.



Remote Memory ANDROID ON / OFF POWER : 0x123456 Selected remote control se HDMI IMAGE DISPLAY SEARCH: 0x123456		SETTINGS			R0iK-LX
DVB-T DVD FRONT REAR SYSTEM INFO	Remote Memory	ANDROID HDMI DVD-T DVD FRONT REAR SYSTEM INFO	ON / OFF IMAGE DISPLAY REMOTE MODFI REMOTE MEMORY	POWER : SEARCH: CH UP : CH DN :	0x12345678 0x12345678 0x12345678 0x12345678

TOUCH PAD GESTURE -RX





Push Joystick and move Joystick to



Apply YouTube gesture

By watching video on YouTube, press the Touch pad and Slide Touch Pad to close Video.









HEADREST MONITOR

* Headrest Monitor (HDMI Out)



DEVICE SETTINGS

← Device Settings		RESET SETTINGS RESTART DEVICE
External Speaker	V	Digital Out Settings
Softkey Enable	\checkmark	Touch Calibration
Softkey Position(Side/Bottom)		Delete User Boot Logo
Softkey Auto Hiding	5sec	Upgrade Device
Zoom Button Enable		
Startup App	OFF	
Cooling Fan		
HDMI Out		

No.	Button	Function	
1	RESET SETTINGS	Reset settings to default	
2	RESTART DEVICE	System Reboot	
3	External Speaker	Turn on/off external speaker	
4	Softkey Enable	Use soft key or disable (Floating button when disabled)	
5	Softkey Position	Soft key position setting (side, bottom)	
6	Softkey Auto Hiding	Set softkey auto-hide time	
7	Zoom Button Enable	Enable or Disable the Zoom Button on the Soft Key	
8	Startup App	Select Startup APP	
9	Cooling Fan	Turn on / off Cooling Fan	
10	HDMI OUT	Turn on / off HDMI Out	
11	Digital Out Settings	(Developer menu) DIGITAL LVDS only, Screen Settings – Position, Brightness, Contrast, Sharpness	
12	Touch Calibration	Touch Calibration (for UART Touch)	
13	Set User Boot Logo	File Format : PNG, JPG, BMP Image Size : 1280 X 720 pixel	
14	Upgrade Device	(Hidden menu) Firmware update is available.	

DEVICE SETTINGS - CALIBRATION (Capacitive, Resistive)

T

* Capacitive touch panel no need set calibration



* Press "Recovery Key" for 2 sec to set calibration



DEVICE SETTINGS – USER LOGO UPDATE

Set User Boot Logo Activate

- 1. Device Setting
- 2. Click 'Set Use Boot Logo' and select boot logo image.



FIRMWARE UPGRADE



Copy 'system_roik10' folder to USB Memory root and insert to USB1 Port.

Select Upgrade Menu, it will start upgrade

- * '/usb disk/system_roik10' Folder have 'update.img' file
- * If there is no update file, "Upgrade Device" menu is not show
- * After firmware update, be sure to perform factory reset to apply the firmware.
- * Update Time will 3~4 min, after first time booting take 3~4 min.
- ****** USB format type = FAT32 / use <u>on USB1 Port only</u>.

В		
	· · · · · · · · · · · · · · · · · · ·	
	Recovery Key	USB 2.0

Copy 'system_roik10' folder to USB Memory root and insert to USB1.

Push hold <u>"R-Key"</u> and turn on (re-connect power cable), it will start upgrade

- * '/usb disk/system_roik10' Folder have 'update.img' file
- * After firmware update, be sure to perform factory reset to apply the firmware.
- * Update Time will 3~4 min, after <u>first time booting</u> take 3~4 min.
- ****** USB format type = FAT32 / use <u>on USB1 Port only</u>.

FACTORY RESET



✗ After reboot system, it takes 3∼4 min

INTERFACE SETTING





R0iK-LX SETTINGS R0iK-LX SETTINGS ON / OFF ON/OFF ANDROID D NORMAL Brightness HDMI IMAGE DISPLAY Contrast R DVB-T 50 DVB-T D¥D ntrast G DVD 50 FRONT FRONT 50 REAR REAR SYSTEM INFO SYSTEM INFO R0iK-LX SETTINGS R0iK-LX SETTINGS ANDROID ON/OFF ANDROID □ Gex909 HDMI □ ANT019 OFF IMAGE DISPLAY IMAGE DISPLAY DVB-T HFT2A DVD DVD DhaS690 REMOTE MEMORY FRONT FRONT Dvh570 REAR REAR SYSTEM INFO SYSTEM INFO

- 1

QUICK INFO



To Enter Quick Info.

- 1. Press MENU Button to change OEM screen to Interface screen.
- 2. Press DOWN Button in the interface screen for 3 seconds.