

Instruction Manual

FORD SYNC3 THC2 for F-150(2015years), FX4, Mustang



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Specification

1. Main spec.

1-1 Input Spec. (MULTI VIDEO INTERFACE)

- 1 x Analog RGB Input (Navigation System output)
- 1 x HDMI Input (Mirroring System source)
- 2 x A/V Input (External video source).
- 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
- 1 x CVBS(FRONT CAMERA) Input. (Front camera source)
- 1 x LVDS Input. (Car Command System)

1-2 Output Spec.

- 1 x LCD Output (LCD Operation)
- 1 x Resistive Touch Output

1-3 Power Spec.

- Input Power : 8VDC ~ 24VDC
- Consumption Power : 12Watt, Max

1-4 Switch Input mode

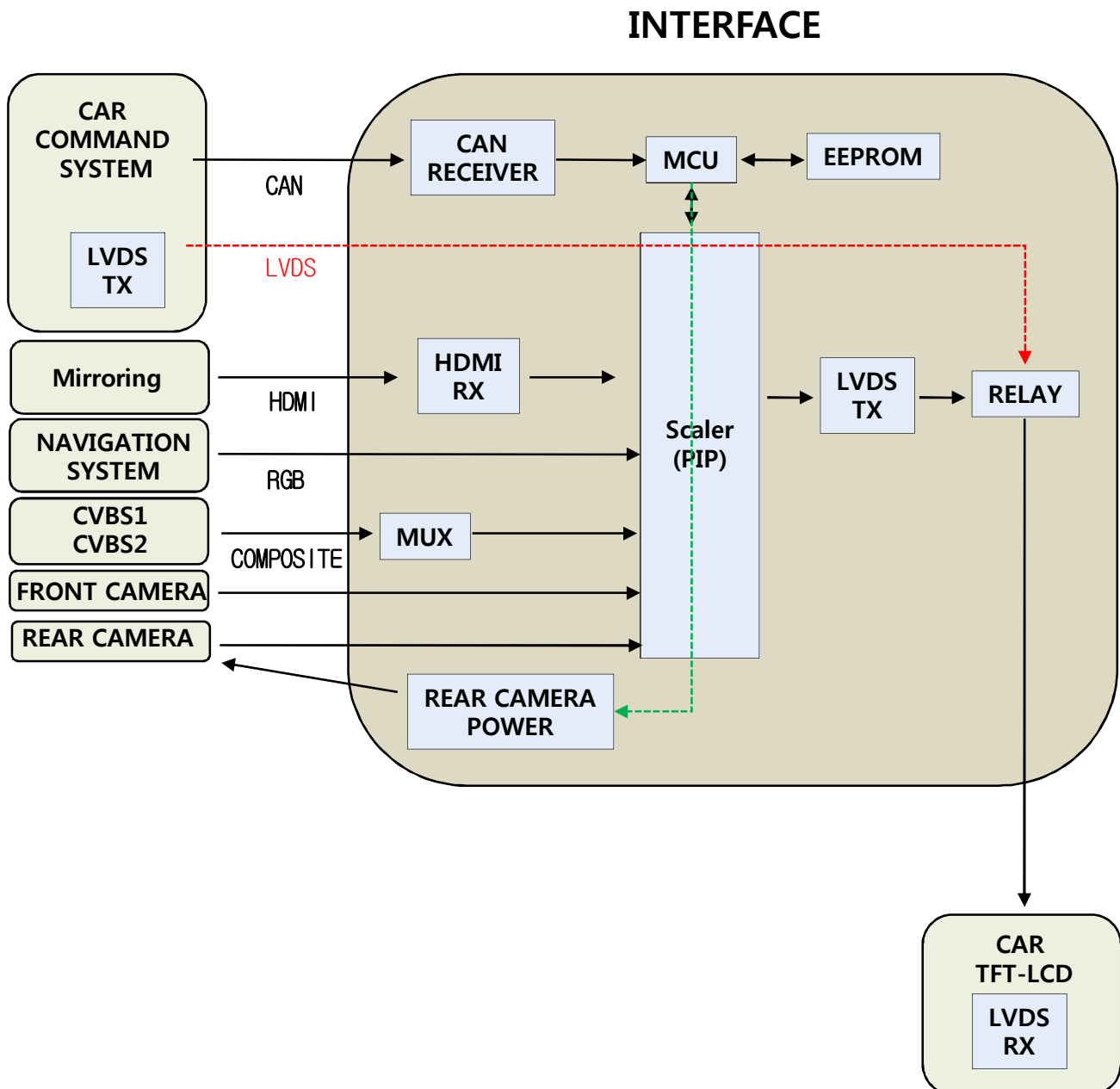
- Possible to switch input mode through original button

2. Features

- Possible to register IR code of DVD/DTV
- Display dynamic PAS(Parking assistance system)
- Easy installation by Jack by jack
- Possible to switch from external screen to OEM Phone mode screen automatically when phone rings
- Possible to switch from external screen to OEM climate mode screen automatically when changing climate value
- Possible to switch from external screen to OEM Audio mode screen automatically when adjusting audio volume level

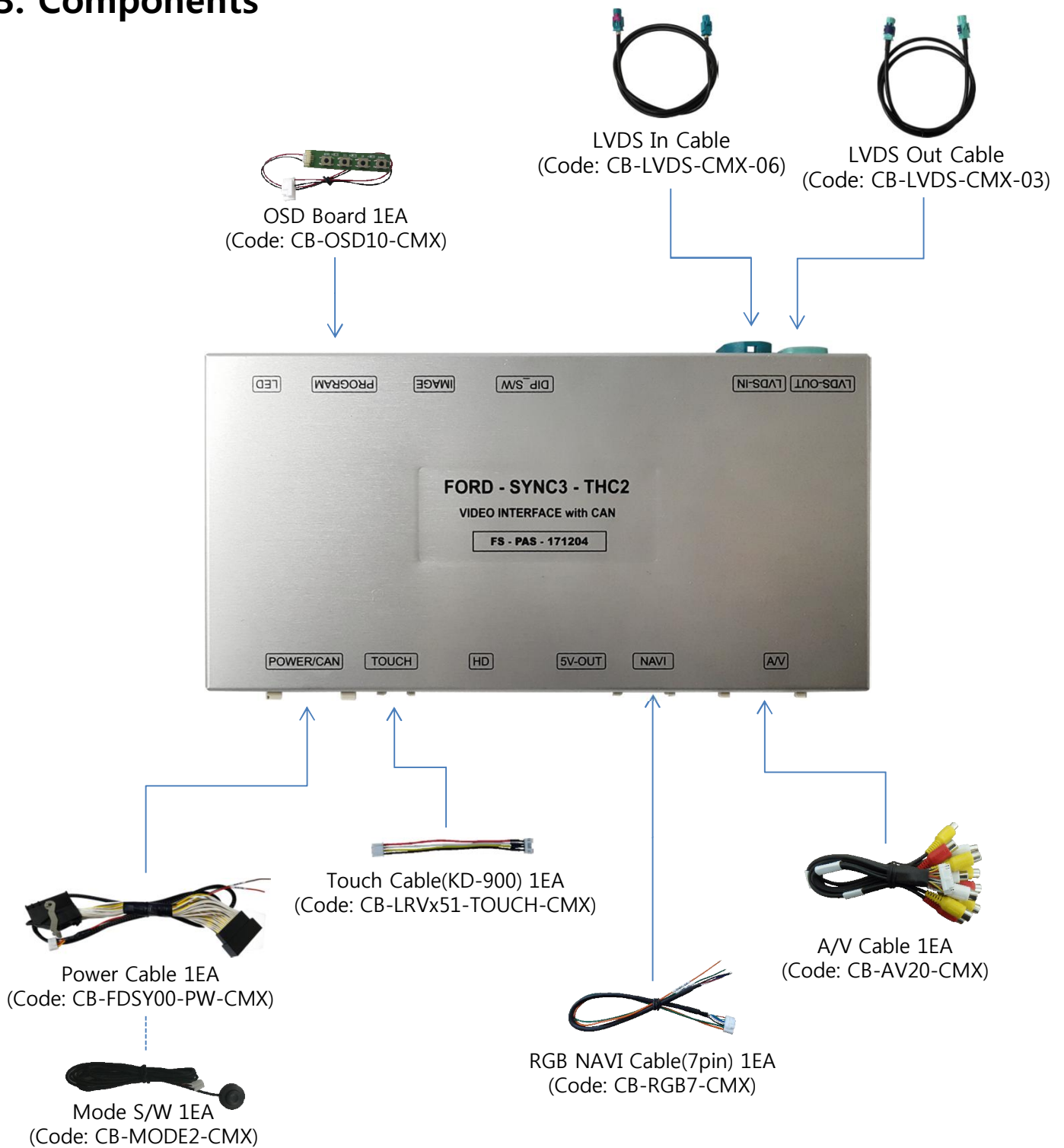
Specification

2. Diagram



Specification

3. Components



Specification

3. Components (**Option**)



Option : HDMI cable 1EA
(Code: CB-MIRA-CMX-01)



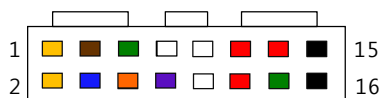
Option : Mirroring 1set
(Code: CB-MIRA-CMX)

Specification

4. Exterior

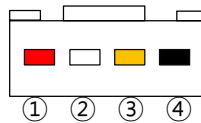


*POWER Connect



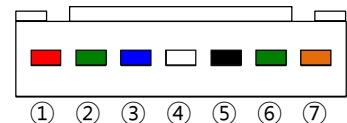
- | | |
|---------------------|---------------------|
| 1. Battery (Yellow) | 9. N.C |
| 2. Battery (Yellow) | 10. N.C |
| 3. Rear-DET (Brown) | 11. ACC (Red) |
| 4. Front-DET (Blue) | 12. Rear-VCC (Red) |
| 5. CAN1-L (Green) | 13. Front-VCC (Red) |
| 6. CAN1-H (Orange) | 14. Mode (Green) |
| 7. N.C | 15. GND (Black) |
| 8. N.C | 16. GND (Black) |

*Touch Connect



- | |
|------|
| ① Y- |
| ② X |
| ③ Y+ |
| ④ X+ |

*NAVI Connect



- | |
|--------------------|
| ① R DATA (Red) |
| ② G DATA (Green) |
| ③ B DATA (Blue) |
| ④ SYNC (White) |
| ⑤ GND (Black) |
| ⑥ DVB-T IR (Green) |
| ⑦ DVD IR (Orange) |

Settings

1. Dip Switch

* ON : DOWN , OFF : UP

NO.	Function	Selection
1	NAVI	ON : Skipping NAVI OFF : Display
2	AV1 (DVB-T)	ON : Skipping AV1 (DVB-T) OFF : Display
3	AV2 (DVD)	ON : Skipping AV2 (DVD) OFF : Display
4	HDMI	ON : Skipping HDMI OFF : Display
4	N.C	
6	Car Model	ON :-
7		ON : Mustang
8		ON : F-150(2015years), FX4

* Example



SYNC3 7"



F-150(2015years) FX4



Mustang

Settings

2. Original button – Steering Wheel (Switching Mode)

※ If it does not work, Please see the following page.



Long Press "LEFT button" or "Voice button" : switching mode
Short Press "LEFT button" or "Voice button" : switching to OEM screen directly

※ Possible to set the use of Steering Wheel button in OSD menu (P.15)

※ The screen is switched in order as the pictures below



Settings

2. Original button – Steering Wheel (Switching Mode)

※ If it does not work, Please press Dip sw no.8 down



Long Press "LEFT button" or "Voice button" : switching mode
Short Press "LEFT button" or "Voice button" : switching to OEM screen directly

※ Possible to set the use of Steering Wheel button in OSD menu (P.15)

※ The screen is switched in order as the pictures below



Settings

3. Touch screen – Touch calibration

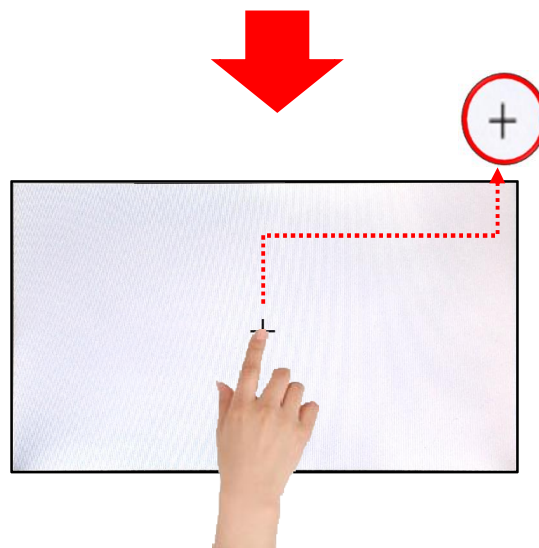


OR

MENU	Calibration		NAVI
OSD	Factory Reset	Execute	Cancel
IR-Ctrl	Calibration	Execute	Cancel
Utility	Version	FDSH00KRX-180112	

Touch OEM screen in any mode more than 11 sec. For calibration
(This function can be activated only one time after switching mode)

Setup for Touch calibration
(OSD Menu – Utility – Calibration – Execute or Cancel)



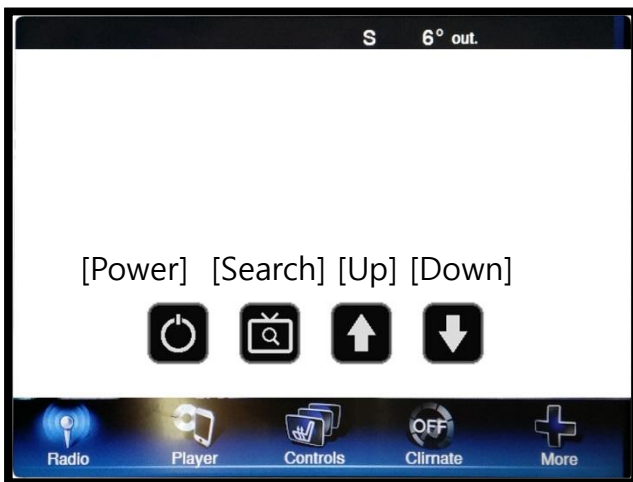
Touch the "+" correctly

Settings

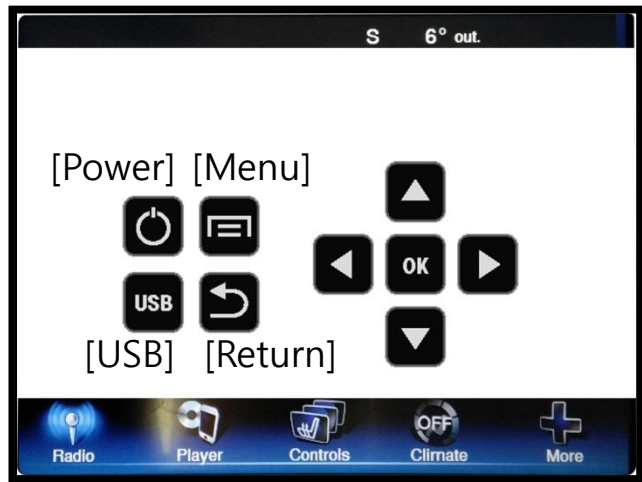
3. Touch screen – DVD, DTV control

※ Calibration : Touch any point of screen more than 11sec to start a touch calibration

- **DTV** – Please contact a supplier in advance for using this function

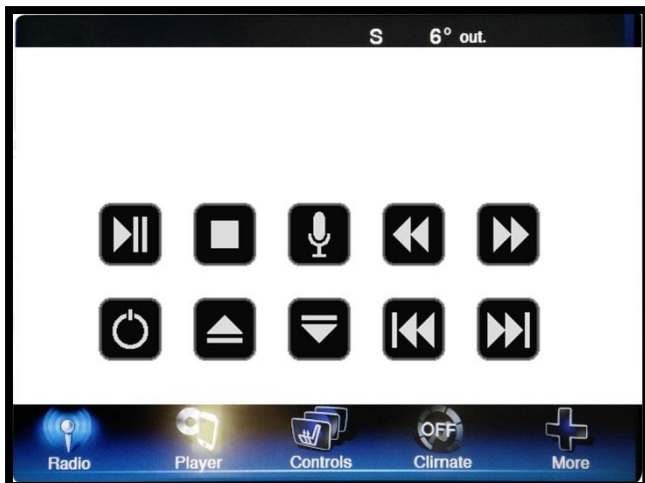


[Button type-1]



[Button type-2]

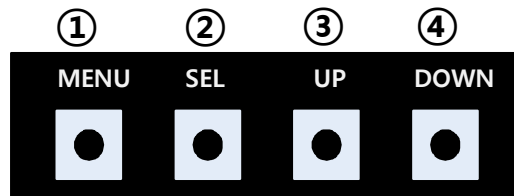
- **DVD**



※ To use this function, It is necessary to offer the remote IR code to manufacturer or setting OSD IR – Ctrl (P. 19)

Settings

4. OSD Key board



- ① MENU :Activating OSD Menu
- ② SEL :Selection
- ③ Up :Moving upward (Increasing value)
- ④ Down :Moving downward (Decreasing value)

5. OSD Menu

※Press "MENU" button on Key board

MENU	Config		NAVI
Config	NAVI-RGB	GI5000-WVGA	
Option	DVB-T(DMB)	ELT_DVBT20	
Image	DVD	ELT_980XU Slim	
Screen	HDMI	CASTIT	
Parking	Reset	Execute	Cancel

Config - NAVI-RGB : Setup for the type of RGB
Config - DVB-T(DMB) : Setup for the type of DVB-T(DMB)
Config - DVD : Setup for the type of DVD
Config - HDMI : Setup for the type of HDMI
Reset : Reset all value

Settings

5. OSD Menu

※Press "MENU" button on Key board

MENU	Option		NAVI
Config	Rear Cam - Type	OEM	
Option	Rear Cam - Power	Auto	
Image	Rear Cam - Det	WIRE	
Screen	AV Mode	On	Off
Parking	Front Cam - Type	ExtDevice	

Option

- RearCam-Type : Setup for rear camera
ExtDevice - External rear camera
OEM - Original camera
- RearCam-Power : Setup for Rear VCC wire in power cable
ON - +12V out always (current consumption : 200mA)
AUTO - +12V out in rear mode only (200mA)
OFF - Power OFF
- RearCam-Det : Setup for Rear detection
CAN - By CAN
WIRE - By rear cam detect wire
OFF - Rear detection OFF
- AV Mode : Change "Rear" input as Video input
ON - Video input (Rearcam TYPE in OSD menu should be "OEM")
OFF - Rear input
- FrontCam-Type : Setup for front camera
ExtDevice - External rear camera
OEM - Original camera

Settings

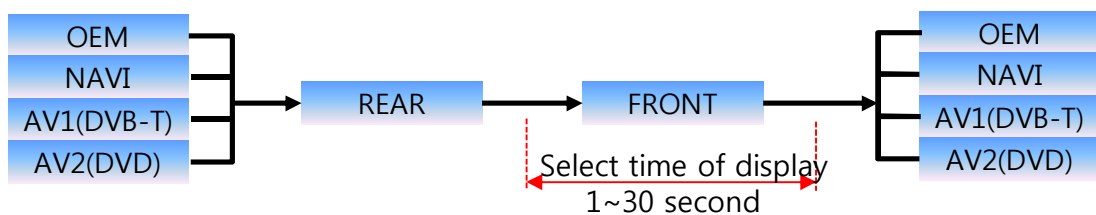
5. OSD Menu

※Press "MENU" button on Key board

MENU	Option	NAVI
Config	Front Cam-Power	Auto
Option	Front Cam-Det	ExtWire
Image	Front Cam-RcvOpt	0s
Screen	SteeringWheelBtn	Off
Parking	UI DVB-T(DMB)	On

Option

- FrontCam-Power : Setup for Front VCC wire in power cable
ON - +12V out always (current consumption : 200mA)
AUTO - +12V out in rear mode only (200mA)
OFF - Power OFF
- FrontCam-Det : Setup for front detection
ExtDevice - External rear camera
OEM - Original camera
- FrontCam-RcvOpt : Selecting time of displaying Front camera before switching to RGB, DVD, OEM from Rear



- Steering Wheel : Setting for Steering wheel button (Switching Mode)
LEFT - Steering wheel Left button ON
RIGHT - Steering wheel Right button ON
OFF - OFF
- UI DVB-T(DMB) : Setting DVB-T(DMB) UI ICON - ON or OFF

Settings

5. OSD Menu

※Press "MENU" button on Key board

MENU	Option		NAVI
Config	UI DVD	Off	
Option	ScrChg-Call	Off	
Image	ScrChg-Climate	Off	
Screen	ScrChg-Audio-Vol	Off	
Parking	NAVI COM	Off	

Option

- UI DVD : Setting DVD UI ICON - ON or OFF
- ScrChg-Call : Setup for switching from external screen to OEM Phone mode screen automatically when phone rings - ON or OFF
 - * After hanging up the phone, the screen will be switched to external screen automatically. To displaying the phone mode screen continually, Please touch the climate screen when it appears.
- ScrChg-Climate : Setup for switching from external screen to OEM mode screen automatically when changing climate value - ON or OFF
 - * The Climate mode screen will appear only for 2 sec. To displaying the climate mode screen continually, Please touch the climate screen when it appears.
- ScrChg-Audio-Vol : Setup for switching from external screen to OEM mode screen automatically when changing audio volume level - ON or OFF
 - * The Audio mode screen will appear only for 2 sec. To displaying the audio mode screen continually, Please touch the climate screen when it appears.
- NAVI COM (N.C)

Settings

5. OSD Menu

※Press "MENU" button on Key board

- NAVI(RGB) Image / Screen

MENU	IMAGE	NAVI
Config	Brightness	50
Option	Contrast	50
Image	Color- RED	50
Screen	Color- GREEN	50
Parking	Color- BLUE	25

MENU	Screen	NAVI
Config	Horizontal	50
Option	Vertical	50
Image	Scale X Up	50
Screen	Scale X Down	50
Parking	Scale X Up	50

- DVD, DVBT, NAVI-AV, REAR, FRONT Image

MENU	IMAGE	Rear
Config	Brightness	50
Option	Contrast	50
Image	Saturation	50
Screen	Hue	50
Parking	Sharpness	25

Settings

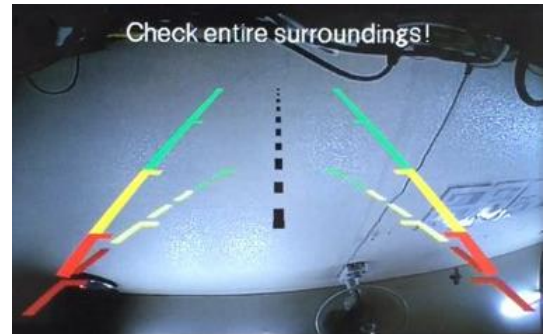
5. OSD Menu

※Press "MENU" button on Key board

- Parking guide line ON/OFF

MENU	Parking Rear	
Config	OPS Display	On
Option	Line Display	On
Image	Warnings Lang	English
Screen	Horizontal	50
Parking	Vertical	58

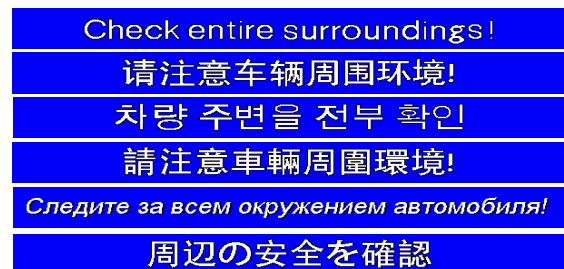
Selecting a use of packing guide line
(OSD Menu – Parking – Line display – ON or OFF)



Parking line "ON"

- Warning Language for rear screen

MENU	Parking Rear	
Config	OPS Display	On
Option	Line Display	On
Image	Warnings Lang	English
Screen	Horizontal	50
Parking	Vertical	58

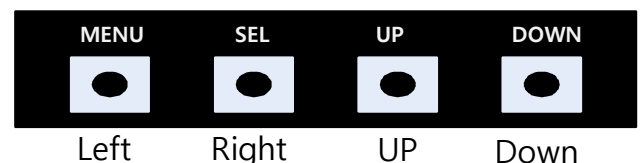


Selecting a type of language (OSD Menu – Parking – Warning Lang)

- Adjust the position of Parking guide line

MENU	Parking Rear	
Config	OPS Display	On
Option	Line Display	On
Image	Warnings Lang	English
Screen	Horizontal	50
Parking	Vertical	58

Possible to adjust the position of line
by Keypad in Horizontal / Vertical menu
※ After pressing the "Horizontal" / "Vertical" in OSD menu
The OSD screen automatically disappears.
In this state, Please adjust the position by Keypad



Settings

5. OSD Menu

※Press "MENU" button on Key board

- OSD

MENU	Horizontal	
OSD	Horizontal	<input type="range"/> 50
IR-Ctrl	Vertical	<input type="range"/> 50
Utility	Display	<input type="range"/> 10s
	Transparency	<input type="range"/> 30
	Language	English

- OSD – Horizontal
- OSD – Vertical
- OSD – Display : Setting time for displaying OSD menu
- OSD – Transparency
- OSD – Language : Setting language of ODS menu

- IR – Ctrl (p.19)

- Utility

MENU	Horizontal	
OSD	Factory Reset	Execute Cancel
IR-Ctrl	Calibration	Execute Cancel
Utility	Version	FDS302KRX-171111

- Utility – INTERFACE SOFTWARE

Settings

5. OSD Menu– Register IR code

※Press "MENU" button on Key board

- IR Ctrl

①

MENU	DVB-T(DMB) DVD	
OSD	DVB - T	Sel Learn Cancel
IR-Ctrl	DVD	User Sys
Utility		

① Select IR Ctrl → DVB/DVD → Learn to register IR code

②

MENU	DVB-T(DMB) DVD	
OSD	ALL - Clear	
IR-Ctrl	POWER	___
Utility	SCAN	___
	CH+	___
	CH-	___

② All Clear : Remove all value of Remote control registered before
Select one of the buttons registering to move on to next step

③

MENU	DVB-T(DMB) DVD	
OSD	New Code : _____	
IR-Ctrl	Cfm Code : _____	
Utility	Save Clr Cancel	

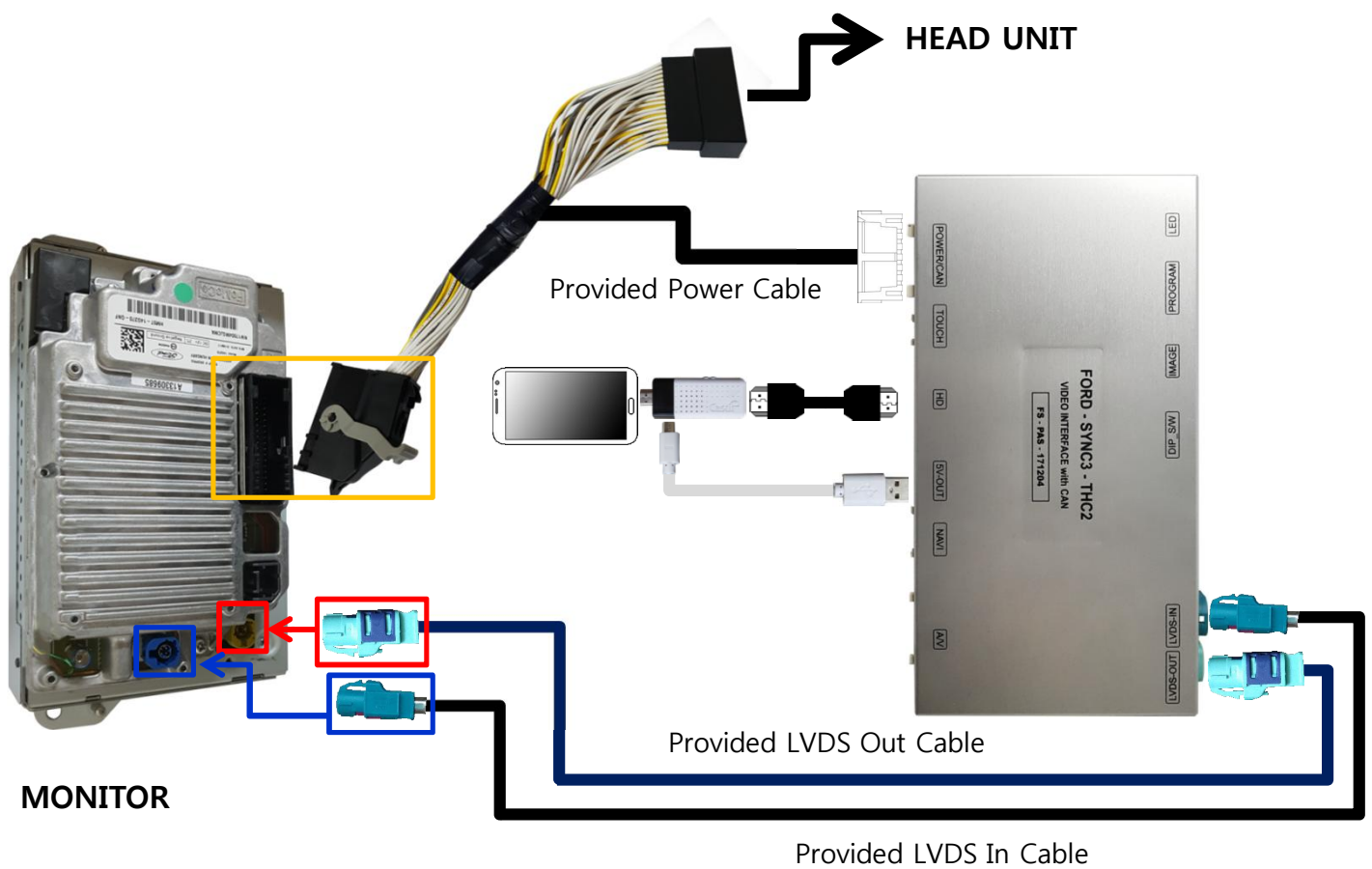
③ Press a button on the remote control of DVD/DTV then the IR code will be appeared on "New code" menu. Press the same button one more time to confirm the IR code. (Cfm code = confirm code)

※ Caution

- Delete :
ALL Clear – Delete all value
Clr – Delete one button's Value
- Play/Pause:
To use  button, Please register the IR code in power / Pause menu separately

Installation

1. Installation Diagram



Caution

1. How to distinguish "SYNC2" and "SYNC3" ?

※ Check the menu of screen



SYNC2



SYNC3

Caution

2. FAQ

- Not possible to switch mode
 - Check connection of OSD Key pad wire
 - Check CAN connection
- Display wrong size of picture
 - Check Dip s/w setting
- Display black screen in OEM mode
 - Check connection of LVDS/LCD cable
- Not possible to switch to rear screen
 - Check the packing setting
(OSD Menu – option – RearCam-Det)

3. Caution

- The device must not be installed in where it interferes driving (close to brake pedal, steering wheel, airbag etc.)
- LVDS cable must be connected correctly according to the manual
- Insulate the end of wire by using electrical tape
- The installation should be done by expert
- GU electronic does not take any responsibility for any problem caused by wrong installation



GU Electronic

For your better driving