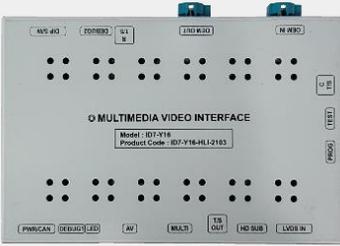# Installation Manual

Multimedia Interface
for *BMW/MINI ID6/ID7 System*

Components

MAIN BOARD

QCPASS1542

ID7 POWER (HEAD UNIT)

HPOWER0242

LCD CABLE

HLCDCA0049

AV CABLE

HAVCAB0056

MULTI CABLE

HARETC0240

REAR CABLE

HARETC0002

UART CABLE

HTOUCH0015

BUTTON CABLE

HARETC0001

IR CABLE

HIRCAB0002

REMOTE CTRL.

REMOTE0001

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Components with Options

HDMI 720P 2Ports SUB Option
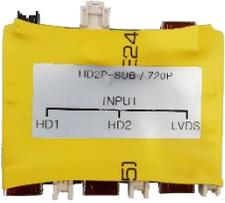
OPTION

HD2P-SUB

QCPASS1547

OPTION

HD2P-SUB CABLE

HARETC0365

OPTION

HDMI CABLE

HARETC0367

OPTION

*UART CABLE*2*

HTOUCH0015

OPTION

ID7 POWER (IDRIVE)

HPOWER0246

OPTION

ID6 POWER (HEAD UNIT)
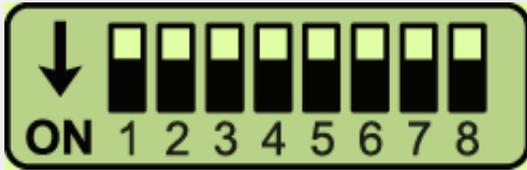
HPOWER0157

OPTION

ID6 POWER (IDRIVE)

HPOWER0175

DIP Switch Settings

* ON : DOWN / OFF : UP

Please make sure to disconnect the power cable of the interface and reconnect the power cable again to apply the dip switch changes.

PIN	FUNCTION	Dip S/W SELECT
1	LVDS	OFF : LVDS MODE ON : LVDS MODE SKIP
2	HD1	OFF : HD1 Mode ON : HD1 Mode Skip
3	AV1	OFF : AV1 MODE ON : AV1 MODE SKIP
4	AV2	OFF : AV2 MODE ON : AV2 MODE SKIP
5	Front Camera	OFF : Ext. Front Camera Mode ON : OEM Front Camera Mode
6	Car Model	OFF : MGU ID7 System ON : NBT/EVO ID6 System
7	Rear Camera	OFF : OEM Rear Camera Mode ON : Ext. Rear Camera Mode
8	LCD Resolution	8 OFF, 9 OFF, 10 OFF -> 1920*720 (12.3") 8 ON, 9 OFF, 10 OFF -> 1440*540 (10.2")
9		8 OFF, 9 ON, 10 OFF -> 1280*480 (8.8")
10		8 OFF, 9 OFF, 10 ON -> 800*480 (6.5")

* HD2 enable is set by OSD menu. *Default setting is NONE (HD2 Mode Skip).*

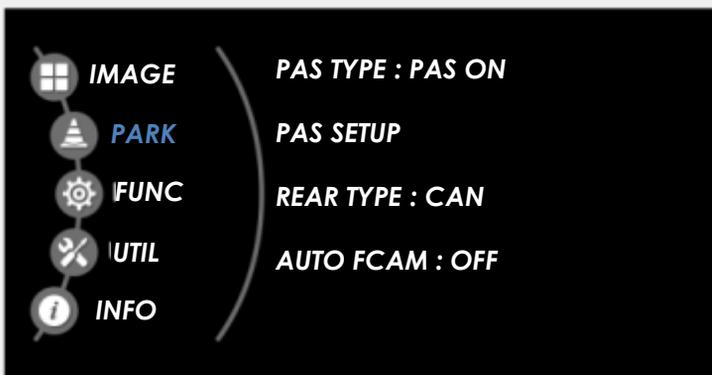*If select other menu on HD2, it will display automatically.*

Remote Control

Key	FUNCTION
POWER & PIP	N/C
MENU	Activating OSD menu
OK	Making a selection, changing image display
▲	Moving upward
▼	Moving downward
◄	Moving leftward (If you press this button 2 seconds long, you can access the factory mode)
►	Moving rightward (If you press this button 2 seconds long, you can reset all the data about user environment)

Factory Settings

IMAGE
- BRIGHTNESS
- CONTRAST
- SATURATION
- HUE
- SHARPNESS

IMAGE
PARK
FUNC
UTIL
INFO

IMAGE

Setting for image display

IMAGE
PARK
FUNC
UTIL
INFO

- PAS TYPE : PAS ON
- PAS SETUP
- REAR TYPE : CAN
- AUTO FCAM : OFF

PARK

PAS TYPE:

Select parking line type.

> NOT USED: Do not use parking line
>
> PAS ON: No Use
>
> PAS OFF: Use fixed parking line

PAS SETUP:

Move the position of parking line.

REAR TYPE:

Choose rear camera recognition.

> **CAN:** *Detecting the rear view camera by CAN signal. (Installer must connect "CAN" cable of the power cable to the "CAN" cable of the car)*
>
> **LAMP:** *Detecting the rear view camera via "Grey Rear" wire. (Installer must connect "Rear-C" cable of the power cable to the rear lamp of the car)*

AUTO FCAM:

Front Camera Display Setting

Factory Settings

FUNCTION

CAR MODEL:

BMW

AUDIO OUT:

Select audio channel transmitted through AUX (Default/AV1/AV2/HD1)

LVDS MODEL:

Car-play, Navigation Model Setting

HD1/HD2 MODEL:

DTV, Navigation Model Setting

FUNC screen:
- CAR MODEL : AUDI A8
- AUDIO OUT : DEFUALT
- LVDS MODEL : QX720P
- HD1 MODEL : SUNE10
- HD2 MODEL : NONE

UTIL

RESET ALL:

Factory mode reset (YES/NO)

VOICE KEY:

(ON/OFF)

IDRV TYPE:

(2WAY/4WAY)

MEMORY KEY:

(OFF/MEM5/MEM7)

UTIL screen:
- RESET ALL : NO
- VOICE KEY : OFF
- IDRV TYPE : 2WAY
- MEMORY KEY : OFF

INFO

System version information

INFO screen:
- INFORMATION
- SW : 210419
- HW : V1.0
- SUB : 210414

Installation Diagram

OEM Monitor

OEM Command

Supplied LCD cable

OEM LCD cable

DIP S/W | DEBUG2 | R T/S | OEM OUT | OEM IN

◎ MULTIMEDIA VIDEO INTERFACE

Model : ID7-Y16
Product Code : ID7-Y16-HLI-2103

C T/S

TEST

PROG

PWR/CAN | DEBUG1 | LED | AV | MULTI | T/S OUT | HD SUB | LVDS IN

Please refer next page for power CAN connection

T/S OUT Pin#2 is UART-TX for UART Touch

AV in *2
Rear camera in *1
Front camera in *1
Aux out *1
Video out *2

HDMI *2 [Optional]

Q·DIS
CarPlay | Android Auto

CARPLAY BOX

Installation Diagram_ HD2P Sub Board

MULTIMEDIA VIDEO INTERFACE

Model : ID7-Y16
Product Code : ID7-Y16-HLI-2103

DIP S/W | DEBUG2 | R T/S | OEM OUT | OEM IN

C T/S

TEST

PROG

PWR/CAN | DEBUG1 | LED | AV | MULTI | T/S OUT | HD SUB | LVDS IN

HD2P Sub Board [Optional]

HD2P-SUB / 720P

INPUT

HD1   HD2   LVDS

HD1 T/S OUT   *HD2 T/S OUT*

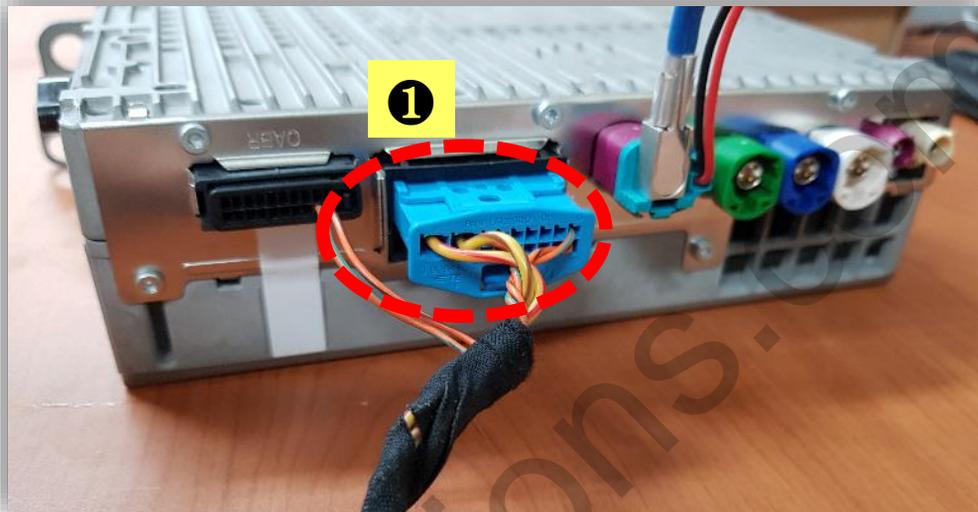**HD1 IN**   **HD2 IN**   **LVDS IN**
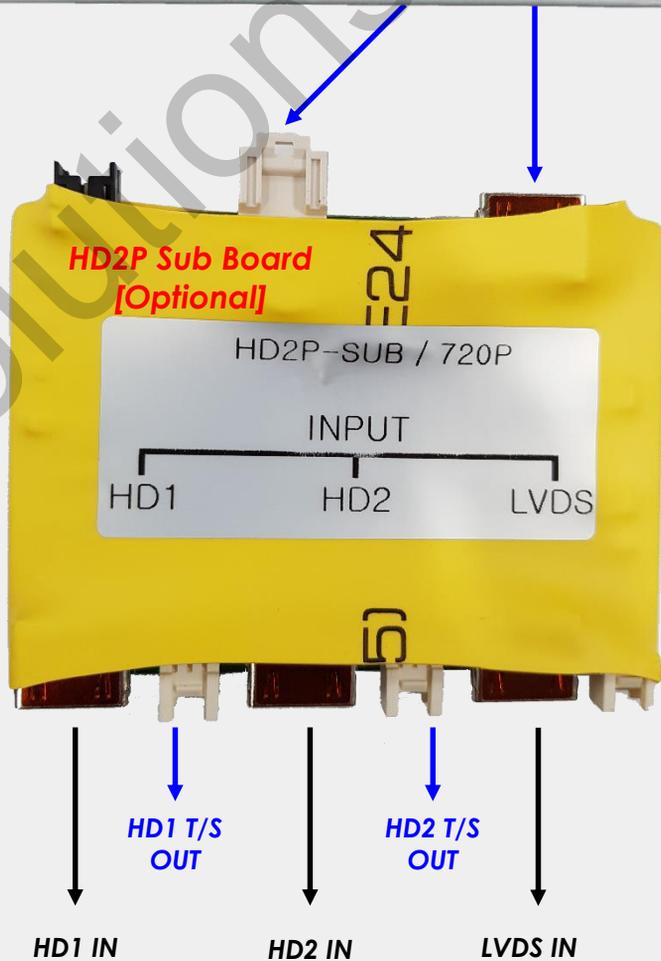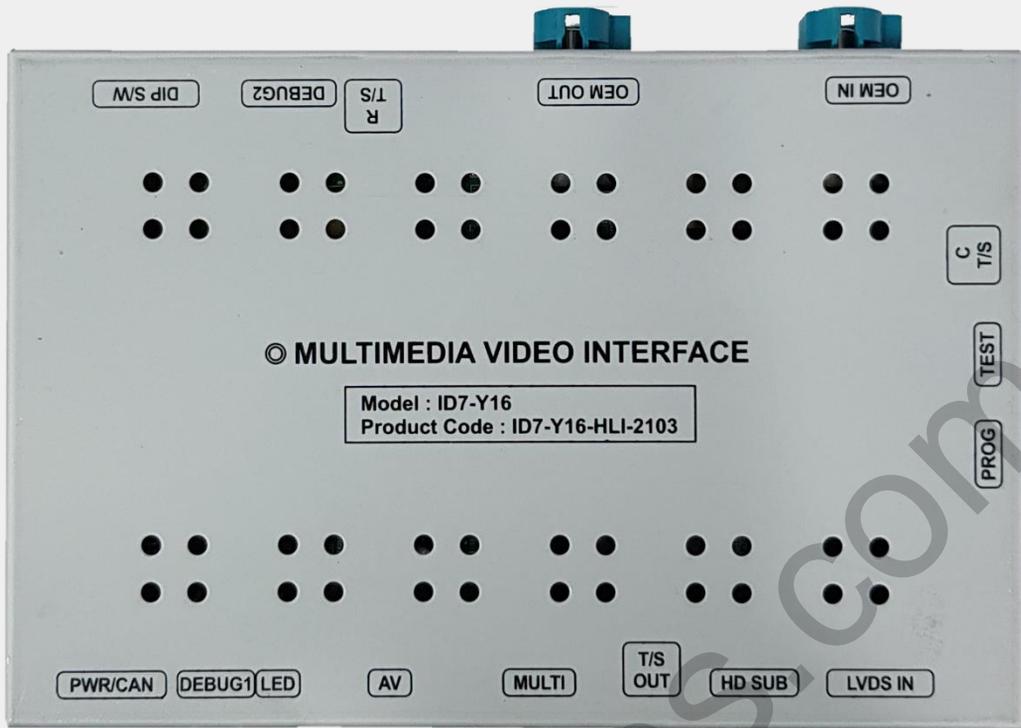
Power/CAN Cable Connection_ ID7

• Two ways to connect POWER/CAN cable:

*1.   Connect **Head-unit jack by jack cable** behind Head unit.*

*2.   Connect **I-Drive jack by jack cable** under I-Drive.*

* Head-unit Jack by Jack:
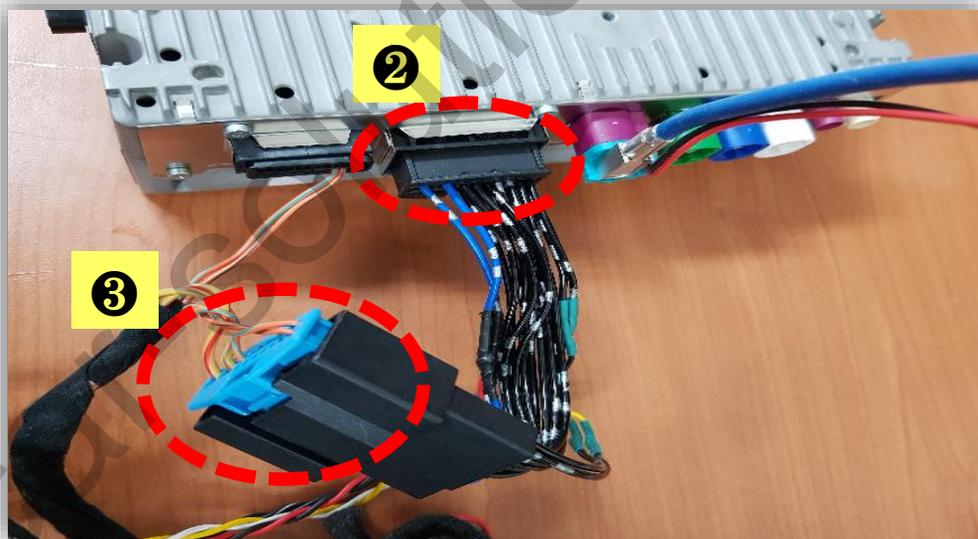
1. *Pull out OEM cable from the backside of head unit as above*

2. *Plug in male connector of supplied power cable to the back side of head unit instead*

3. *Connect OEM cable to the female connector of supplied power cable*
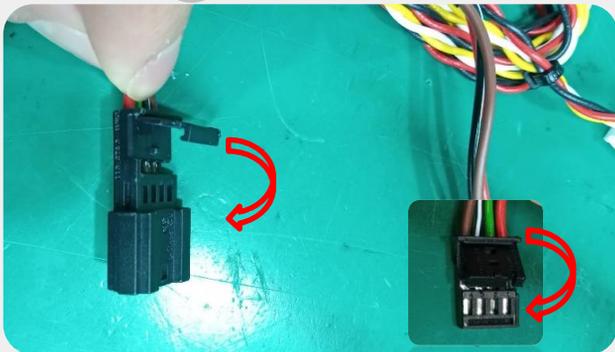
Power/CAN Cable Connection_ ID7

I-Drive Jack by Jack: In case use I-Drive J by J cable, please detach OEM cable from I-Drive and connect with supplied power cable.

OEM cable

Supplied Power cable
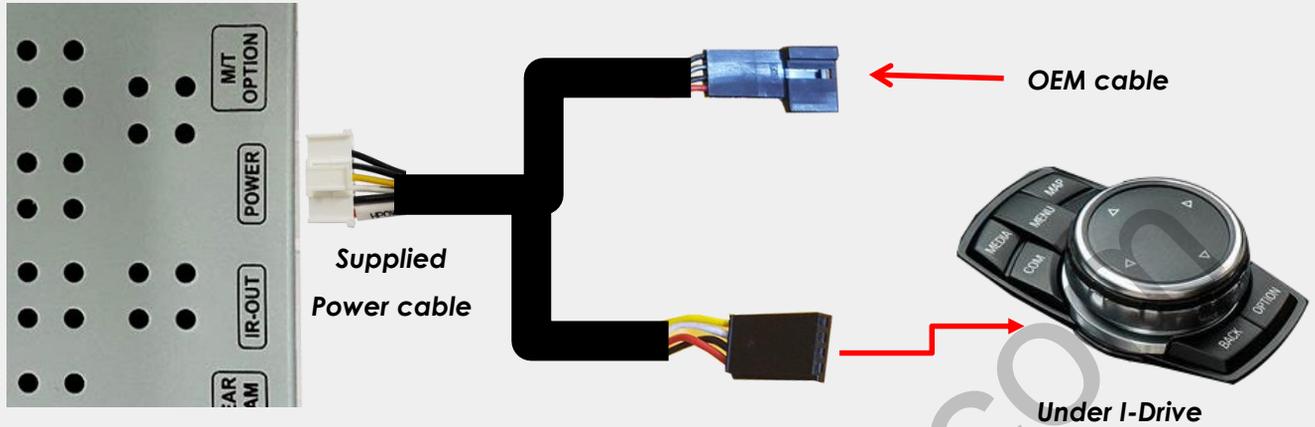
Under I-Drive

*Please note that **ID7 7 series car have different I-Drive power/CAN pin map** with other ID7 cars, make sure to check the pin map before installation under I-Drive.

Car Model	Cable Type	#1	#2	#3	#4
ID7 7 Series I-Drive Power/CAN Pin Map	OEM Cable	ACC (Red/White)	Ground (Grey)	CAN-High (Orange/Green)	CAN-Low (Green)
	QDIS supplied cable	12V (Red)	Ground (Grey)	CAN-High (Green)	CAN-Low (Black/White)
ID7 common I-Drive Power/CAN Pin Map	OEM Cable	ACC (Red/White)	CAN-High (Orange/Green)	CAN-Low (Green)	Ground (Grey)
	QDIS supplied cable	12V (Red)	CAN-High (Green)	CAN-Low (Black/White)	Ground (Grey)

*Please find locker on male and female connector of supplied I-Drive power cable, once open the locker you could easily change the pin arrangement and lock it.
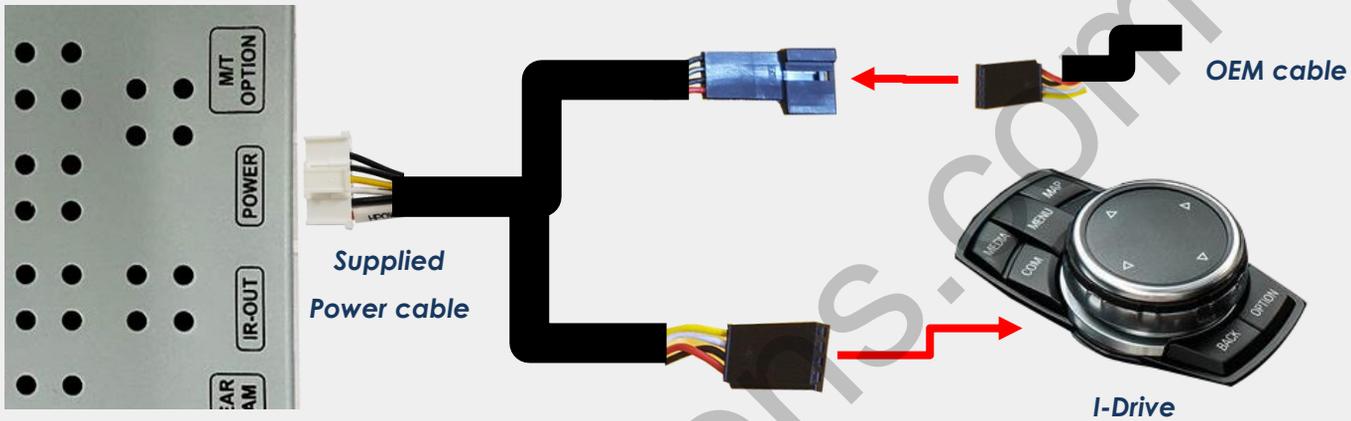
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Power/CAN Cable Connection_ ID6

• **Two ways to connect POWER/CAN cable:**

1. Connect **Head-unit jack by jack cable** behind Head unit.

2. Connect **I-Drive jack by jack cable** under I-Drive.

• IDRIVE

* Detach OEM cable from I-Drive and connect with supplied power cable

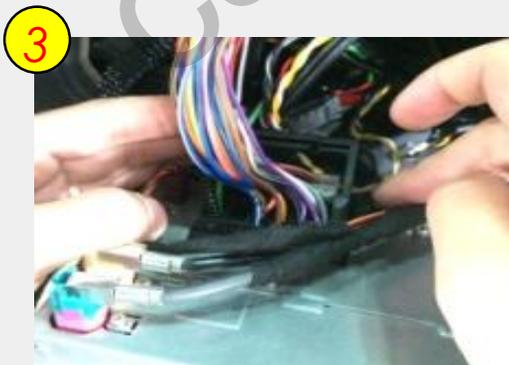OEM cable

Supplied
Power cable

I-Drive

• HEAD UNIT

Pull out the bunch of cables from the backside
of command and disconnect the marked
optical fiber cable

Connect the optical fiber cable to the supplied
power cable

Connect the provided power cable to
the backside of monitor
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Connect the bunch of original cables to the
provided power cable (Female connector)
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OEM Button Activation

* Switch mode or activate the function by OEM button

<Steering wheel>

<I-Drive>

<Memory Button>

| Section	Button	Operation	Function
IDRV	**IDRV HOME**	*long press***(3sec)**	Mode Switch
		short press	Back to OEM (In front camera mode, return to previous mode)
	IDRV WHEEL DOWN	*long press***(3sec)**	HDMI/AV/Rear Camera mode PIP function **(* HDMI/AV PIP not support on 6.5inch screen)**
HANDLE	**VOICE**	short press	Mode Switch
Memory	**#5**	Short press	
	#7	Short press	

Screen Ration Change on HDMI Mode

Please press high lighted button for 3secs long to change screen display ratio.

Full screen display on HDMI Mode
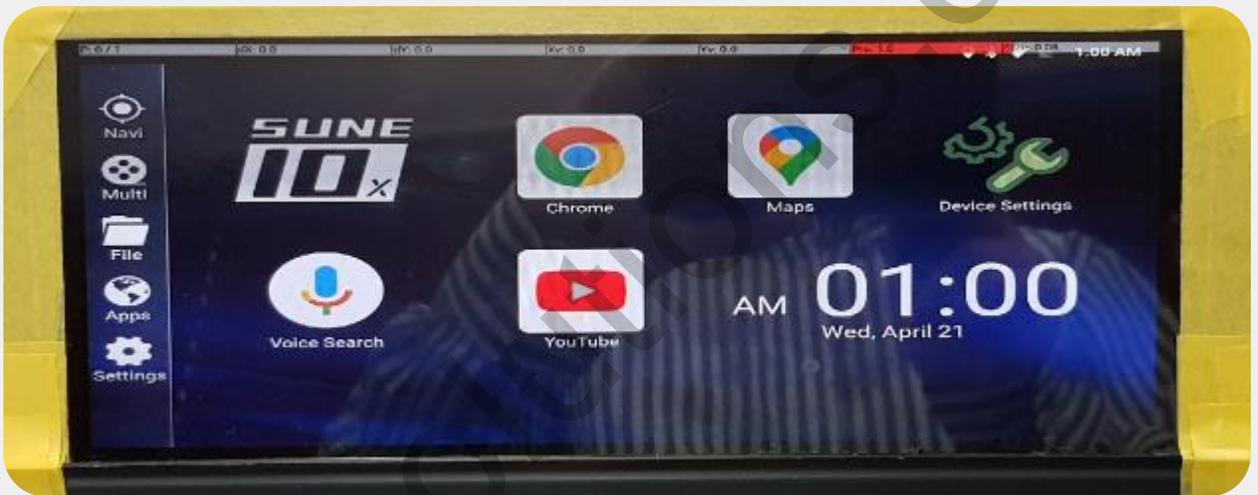
4:3 ratio screen display on HDMI Mode

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car-solutions.com
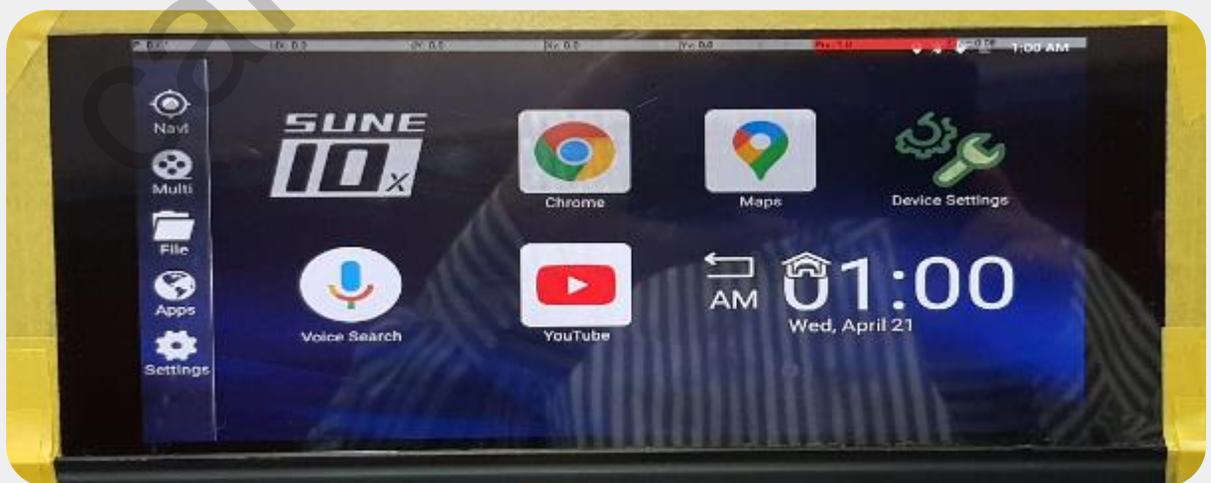
Split Screen on Front Camera/AV Mode

Please press high lighted button for 3secs long to change screen display ratio.

Split screen display on AV/Front Camera Mode

Full screen display on AV/Front Camera Mode

Split Screen on Rear Camera Mode

Please press high lighted button for 3secs long to change screen display ratio.

Split screen display on Rear Camera Mode

Full screen display on Rear Camera Mode -> OEM or Rear Camera

OEM Button Activation on QDISPLAY Mode

* To control CARPLAY box by IDRV need to select OSD menu as below.

- *OSD menu -> UTIL -> IDRV Type -> 2 way or 4way*

- *OSD menu -> FUNC -> LVDS Model -> SE-CP*

4 KEY TYPE IDRIVE

(have IDRV Up/Down)

2 KEY TYPE IDRIVE

(no IDRV Up/Down)

Section	Button		Operation	Function
IDRV	IDRV WHEEL RIGHT SPIN		moving right	Right
	IDRV WHEEL LEFT SPIN		moving left	Left
	IDRV WHEEL PUSH		short press	Selection/Enter
			long press **(3sec)**	Si-ri Call
	4 KEY	IDRV LEFT	short press	Left/Track -
		IDRV RIGHT	short press	Right/Track +
		IDRV UP	short press	Up
			long press **(3sec)**	Home
		IDRV DOWN	short press	Down
			long press **(3sec)**	1. Back 2. Moving to Android Auto Down Side Menu
	2 KEY	IDRV RIGHT	short press	Right/Track +
		IDRV LEFT	short press	Left/Track –
			long press **(3sec)**	Home
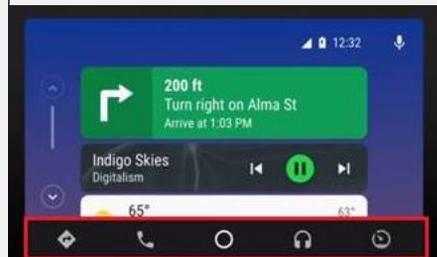
Cautions Before Installation

1. *Ignition key should be taken off before starting installation, interface power connection must be the last step in installation.*

2. *Power cable should be separated when connecting interface.*

3. *Should be no any electronic devices or magnetic pole around installation place.*

4. *All steps of installation should be done by well-trained specialist.*

5. *Dismantling without manufacturer's permission can not be guaranteed, (No permission to break attached label on the board.)*

6. *Kindly check all parts are in the box, when receiving the product, if anything missing, inform to the supplier or manufacturer.*

7. *According to our sales policy, any problems caused by user's mistake, careless can not be guaranteed.*

Trouble shooting

Q. I cannot change mode

A. Check connection of Ground cable and IR Cable. Check LED lamp is on, if not check connection of POWER cable.

Q. All I got on the screen is black.

A. Check second LED lamp of the interface is on, if not, check A/V sources connected are working well. (Second lamp indicates AV sources connected works well) Check interface connection has been done well.

Q. Displayed image color is not proper (too dark or unsuitable color)

A. Press ▶ button on the remote control for 2 seconds and check how it goes, if it does not work, inform to manufacturer.

Q. I cannot watch the rear camera on the screen

A. Set the DIP switch #7 as state "ON".

Q. Set mode not appear

A. Check DIP Switch.

Q. OEM image is not displayed.

A. Check interface's LCD In/Out cable connection. If the status keeps on, inform to manufacturer.

Q. Screen only displays white color.

A. Check LCD out cable is connected well, if this status keeps, inform to manufacturer.

Q. If no image is shown on screen after connecting CAN wire with Park gear.

A. Go on the "FACTORY MODE", check "UTIL-Rear Select". If "LAMP", change the setting as "CAN" with the remote control. (* when connecting Rear-C wire of LAMP power cable to Backup lights, Setting should be like this / CAN : if controlling rear camera with CAN wire)