

# NAV-TV

INTERFACING THE FUTURE

NTV-DOC 357  
DS July 6, 2020

## BMW12-SMART

SKU# NTV-KIT972



### Overview

This kit Allows you to Integrate your Smart Phone (IOS or Android) on the factory screen fitted in your BMW / MINI 2012> **with the 6-pin video connector (at the Screen)**. This interface also allows you to add an after market camera *(or retain the factory camera)*.

### Kit Contents



Main Interface

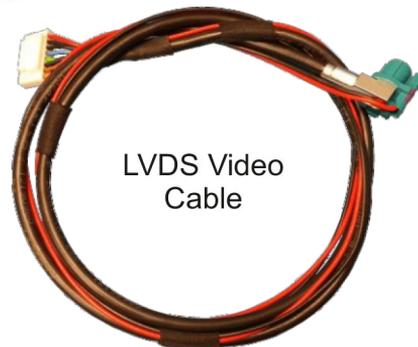


USB Harness

Antenna



Power / CAN Harness



LVDS Video Cable

Dip Switch settings\*

Dip SW:	1	2	3	4	5	6	7	8	9	10
UP		KEEP UP	KEEP UP	OEM CAM	VEH SETTING	CAN SPEED	VEH SETTING	VEH SETTING	VEH SETTING	
DOWN	KEEP DOWN			AFTERMARKET CAM						KEEP DOWN

**Dip Switch Configuration**



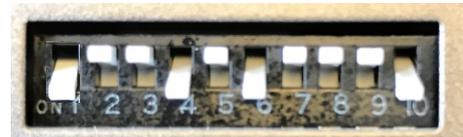
**2014: MINI  
8.8" screen**



**2015: MINI  
6.5" screen**



**2013: 1 & 3 series (version 1)  
8.8" screen**



**2013: X3 & 1, 3 series (version 2)  
8.8" screen**



**2014+: 3, 5, 7 series  
8.8" / 10.2" screen**



**2014:> X3, 1, 2, 3 series & active tourer  
6.5" screen**



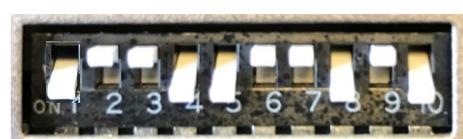
**2015: X5, X6, X3, X2, 2016 MINI  
8.8" / 10.2" screen**



**12 - 15: X3 & 1, 3 series  
6.5" screen**



**2016: 4 series  
8.8" screen**



**2016: 1, 2, 3, 4 series  
6.5" screen**

**\*Note: Remove power to the unit prior to making adjustments to the dip switches.**

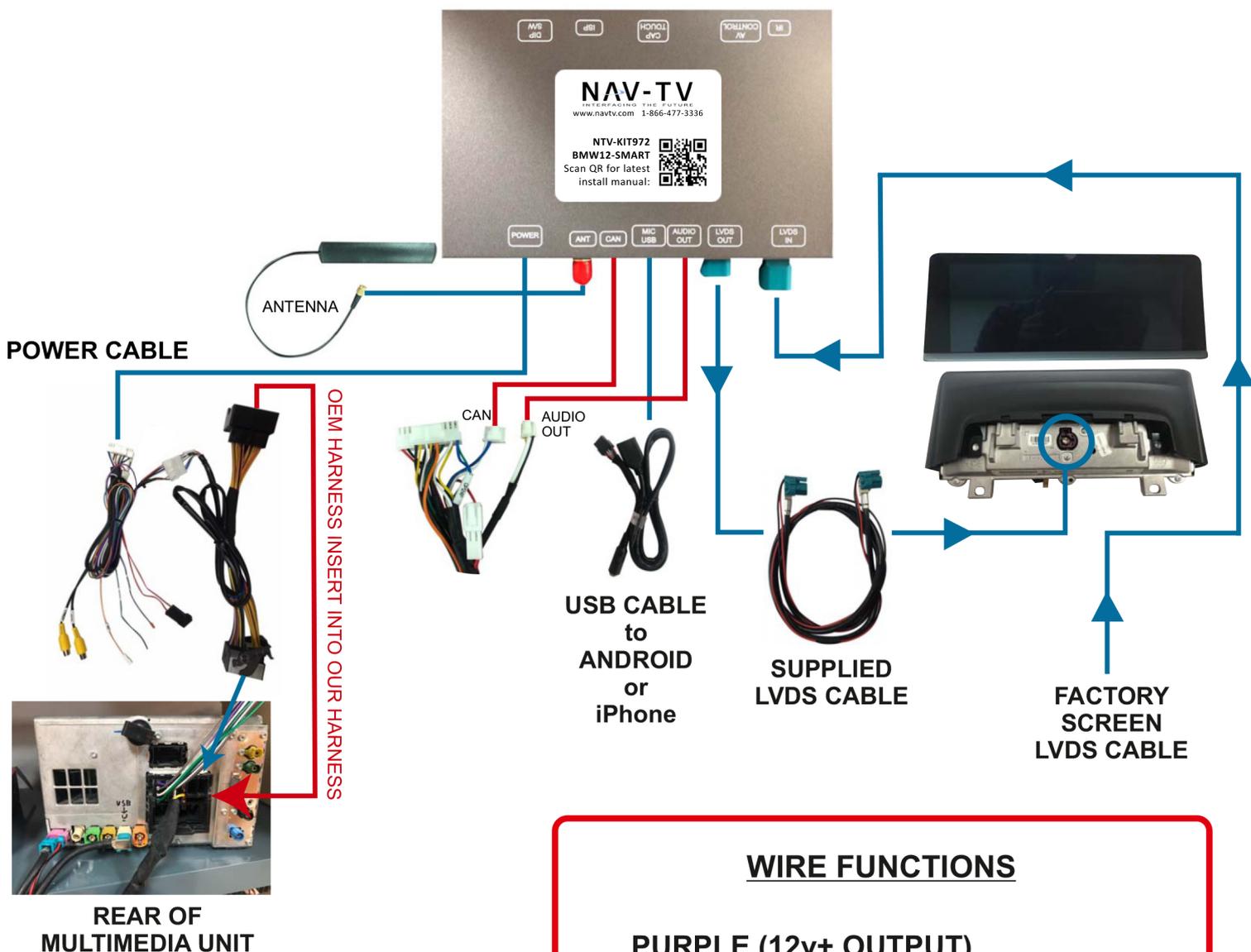
**FOR CERTAIN CARS YOU WILL HAVE TO TRIGGER THE REVERSE VIA THE GREEN WIRE TO THE REAR REVERSE LAMP (IN CERTAIN CASE THIS MAY ALSO REQUIRE A RELAY)**

## CONNECTIONS

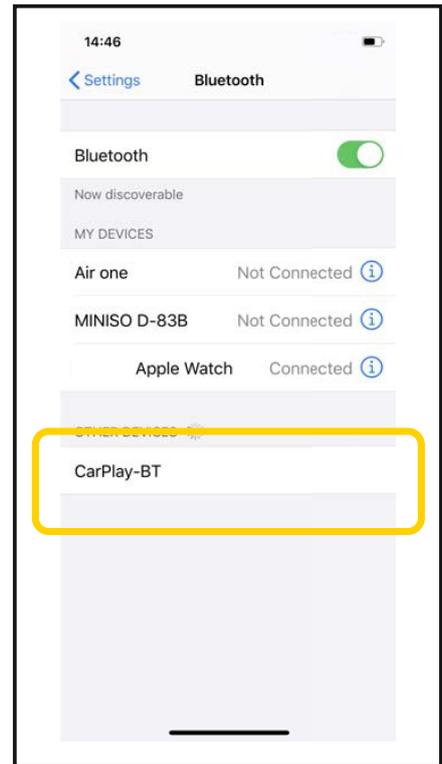
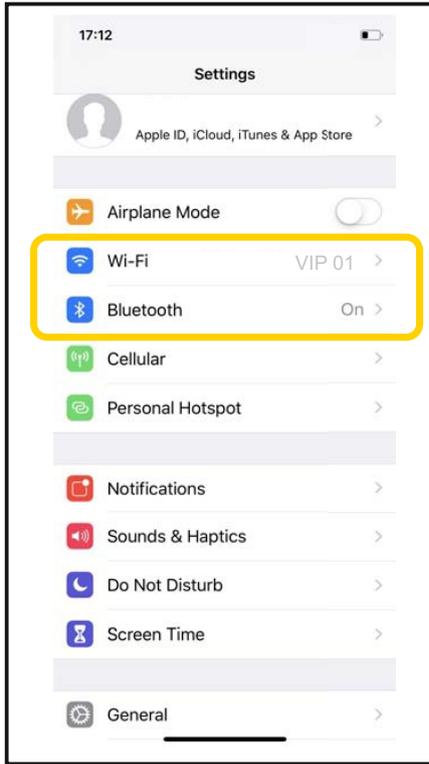
The Connections are made at the Main Multimedia drive in the dash and at the factory screen (monitor). Certain panels will have to be removed to gain access to the rear of both units.

Connect **LVDS cable** at the rear of the **SCREEN** (monitor)

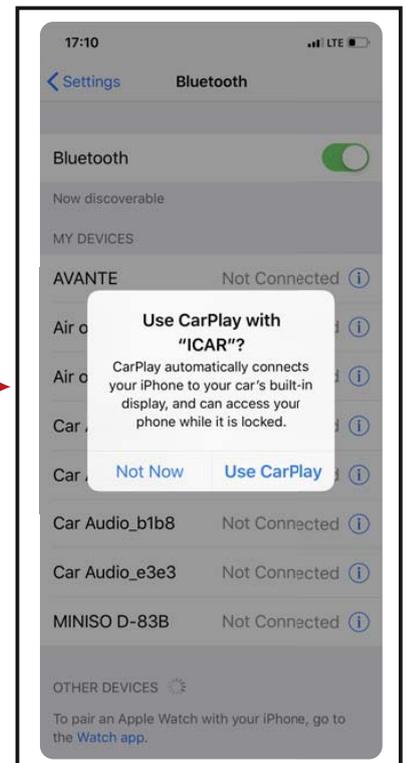
Connect the 40 way Quadlock connector at the rear of the **Multimedia Unit**  
(Aux audio is already pre-wired within the 40 way connector)



PAIRING OPTION FOR IOS



PLEASE SET WIFI AND BLUETOOTH "ON" AT SETTING OF IPHONE, AND THEN PLEASE SEARCH DEVICE "CARPLAY-BT" IN BLUETOOTH

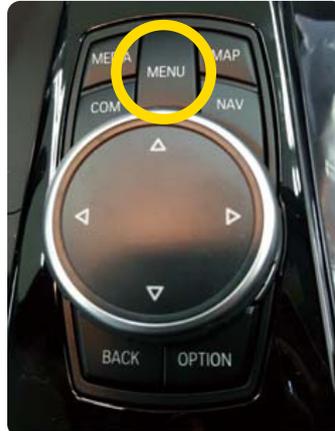


**PIN CODE IS "0000". PLEASE FILL IN PIN CODE AND SELECT "PAIR". PLEASE SELECT "USE CARPLAY" AFTER PAIRING.**

OPERATION

FOR AUDIO - select "AUX" in the BMW "MULTIMEDIA" menu.

TO SELECT the Smartlink interface - press and hold the "MENU" button for 2-3 secs.



MAIN  
SMARTLNK  
MENU

Now select either "CarPlay" or Android

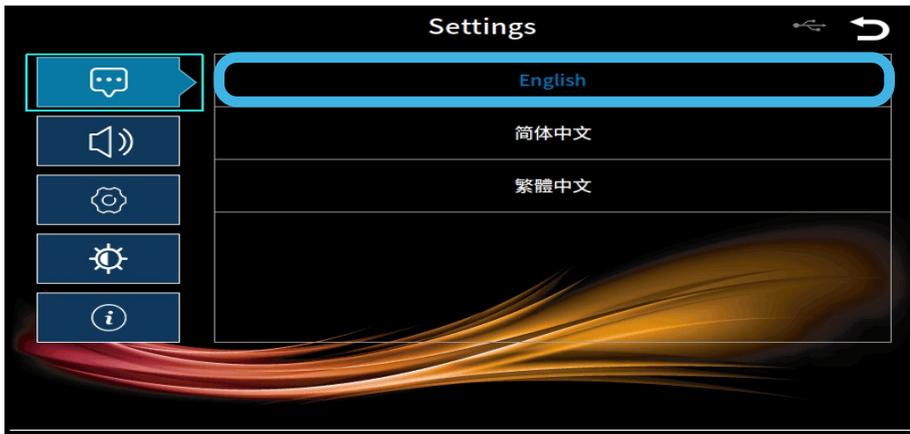


MAIN  
CarPlay  
MENU

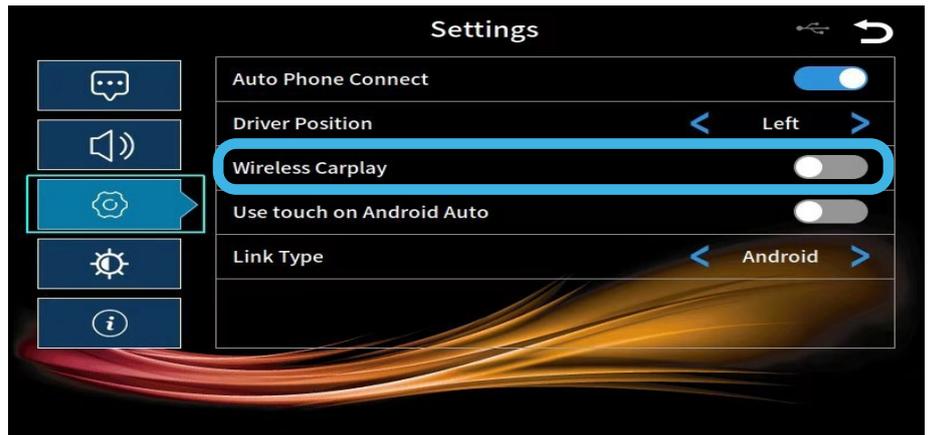
MAIN  
ANDROID  
MENU



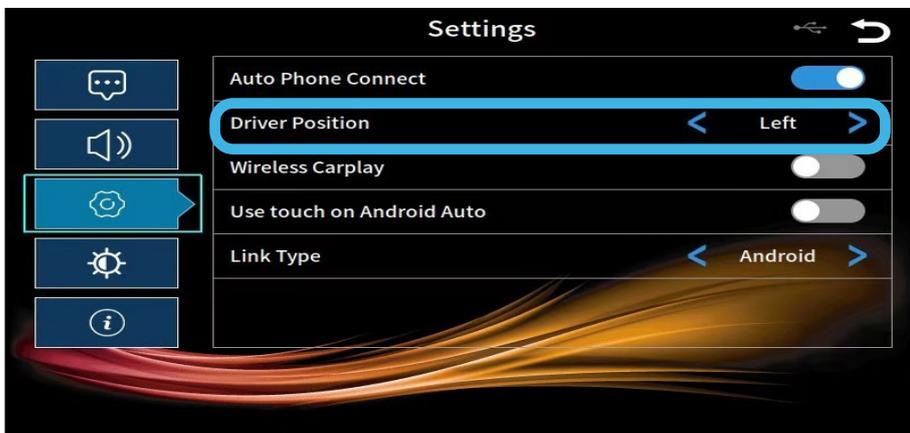
Now use the familiar user interface to select various options .



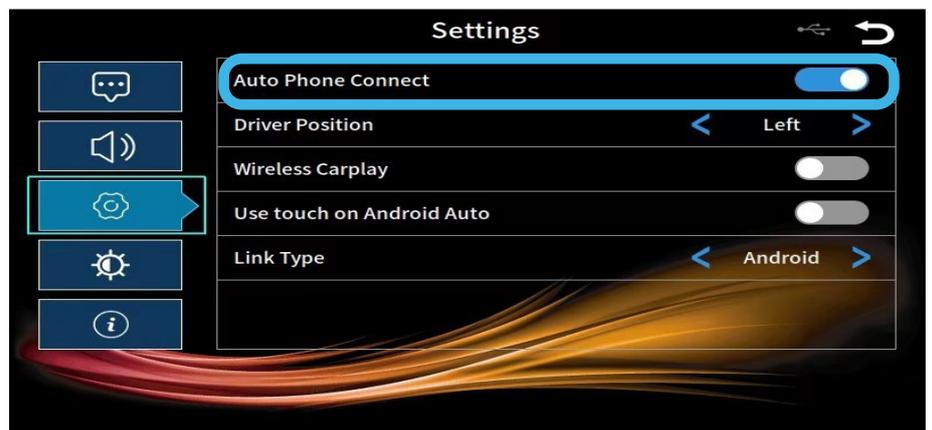
LANGUAGE SETTING



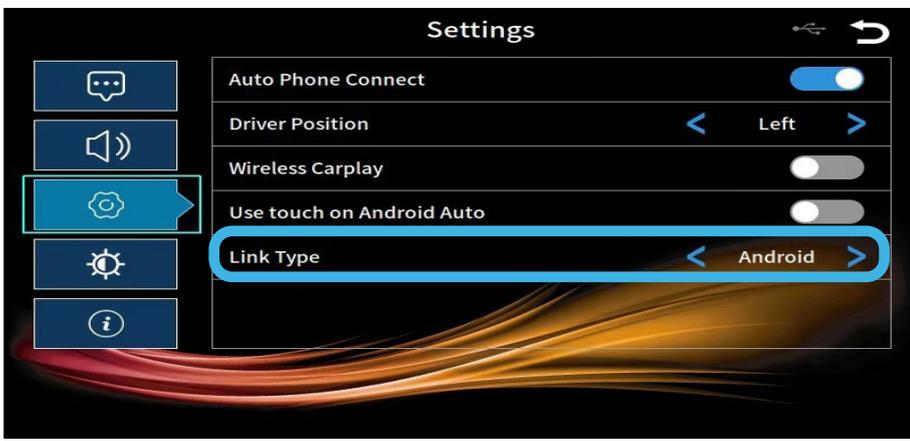
SELECT WIRELESS CARPLAY "ON" TO ACTIVE WIRELESS CONNECTING



(LEFT OR RIGHT)  
BAR OF CARPLAY  
WILL CHANGED

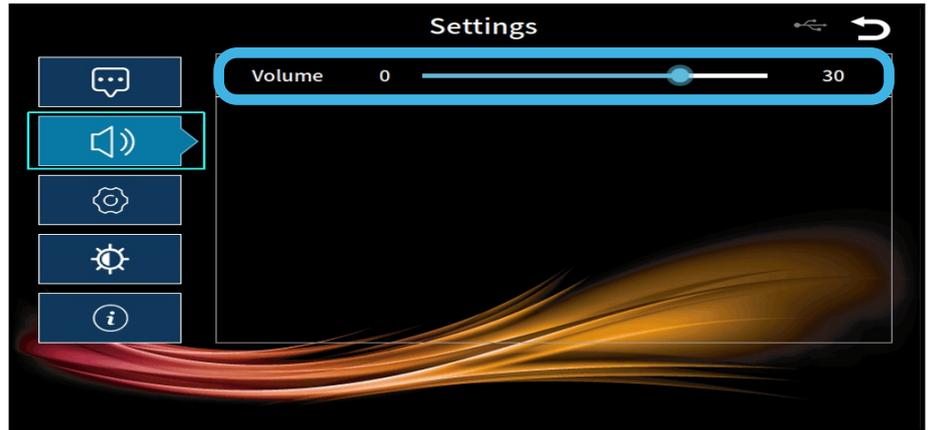


SELECT AUTO PHONE CONNECT THEN  
YOUR SMART PHONE AUTOMATICALLY

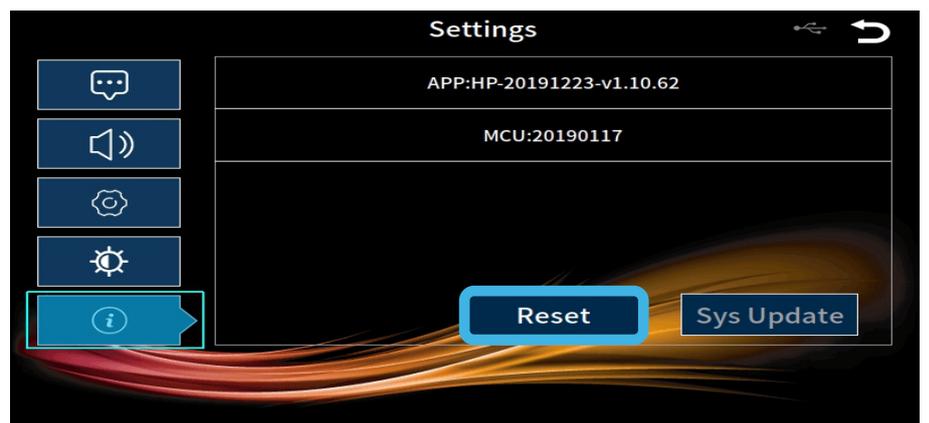
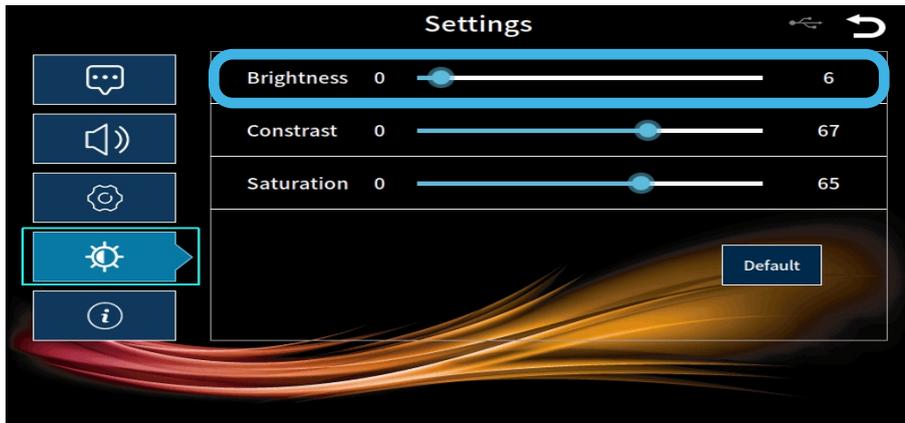


ANDROID

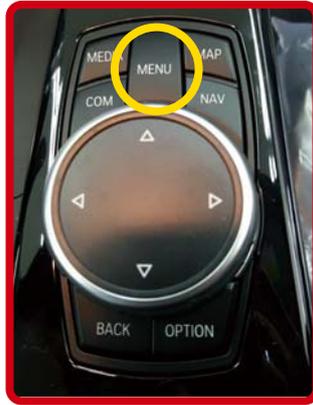
VOLUME SETTING



BRIGHTNESS SETTING  
IN NETPLAY MAIN MENU ONLY

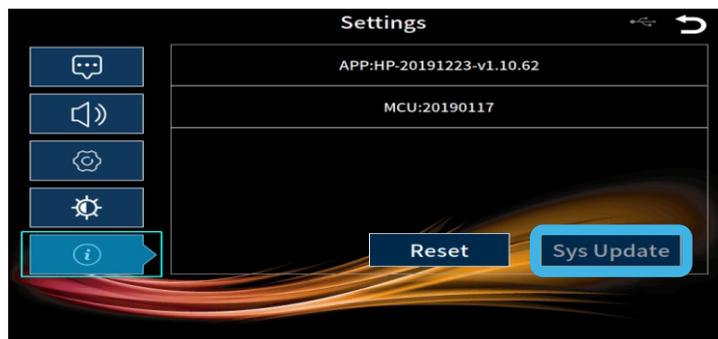


RESET & UPDATE NETPLAY



HOLD “MENU” BUTTON OF IDRIVE CONTROLLER OVER 10 secs  
IN SMARTLINK MODE CAN RESET SMARTLINK AS WELL.

## HOW TO UPDATE



THERE ARE 2 WAYS TO UPDATE SMARTLINK AS BELOW :

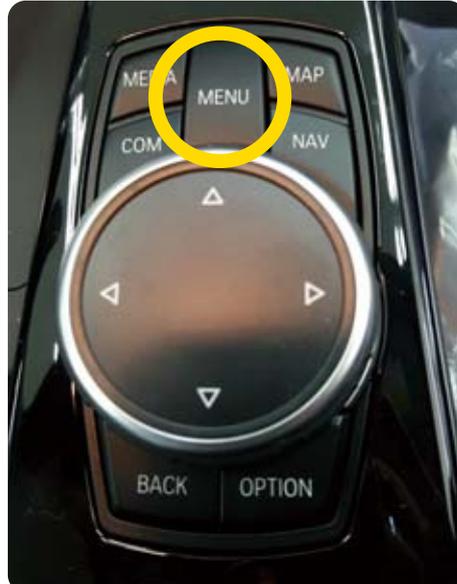
- 1) INSERT USB MEMORY CARD INTO USB PORT
- 2) CONNECT POWER CABLE
- 3) SCREEN WILL SHOW “UPDATING...” IN SMARTLINK
- 4) NETPLAY WILL REBOOT ITSELF, THEN PLEASE DISCONNECT USB MEMORY CARD WHEN YOU SEE MAIN MENU

- 1) INSERT USB MEMORY CARD INTO USB PORT
- 2) ENTER TO SETTING OF SMARTLINK
- 3) SELECT “SYS UPDATE”
- 4) NETPLAY WILL REBOOT ITSELF, THEN PLEASE DISCONNECT USB MEMORY CARD WHEN YOU SEE MAIN MENU

# FRONT CAMERA / VIDEO INPUT

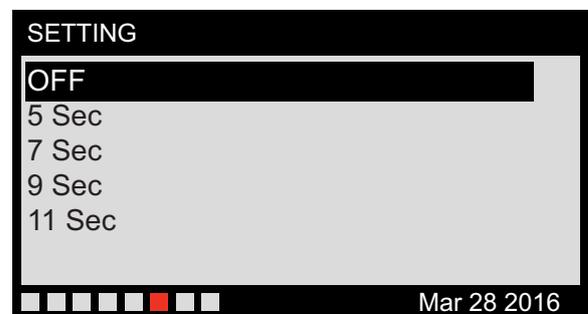
The front camera option can be selected in 2 ways.

1. By pressing the “MENU” button on the steering wheel for 2-3 secs (after initial set up)
2. Auto switching timed output when reverse is exited (after initial set up).



## TO SET UP FRONT CAMERA FUNCTION

1. First set dip switch 1 to “ON” (on the interface), then unplug and re-plug the power harness.
2. Select the video option by pressing the “MENU” button for 2-3 seconds, this will then display the screen saying “NO GPS”.
3. You will have to enter “VIDEO MENU”, please see next page how to enter “VIDEO MENU”. Once you are in the “VIDEO MENU” you will see the display as (FIG 1) use the cursor right in the remote control until you get to the “SETTINGS” Menu (FIG 2) and set your preferences. once you have done this please press the “POWER” button to save the changes. Press the “MENU” button again to return to the OEM menu.



- OFF : DO NOT USE FRONT CAMERA
- ON : USE FOR FRONT CAMERA
- 5 Sec : DISPLAY FRONT CAMERA INPUT FOR 5 SECONDS
- 7 Sec : DISPLAY FRONT CAMERA INPUT FOR 7 SECONDS
- 9 Sec : DISPLAY FRONT CAMERA INPUT FOR 9 SECONDS
- 11 Sec : DISPLAY FRONT CAMERA INPUT FOR 11 SECONDS

## ON SCREEN MENU (OSM)

There are two type of OSM, these are shown as below:

Rear OSM is for the settings of the Rear Camera

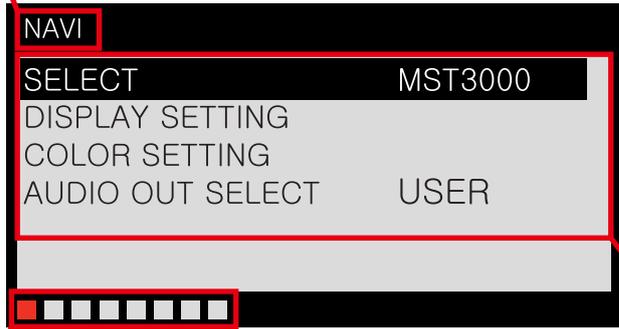
VIDEO OSM is for the settings for Front Camera / AV1, Etc.

### REAR OSM



### VIDEO OSM

submenu



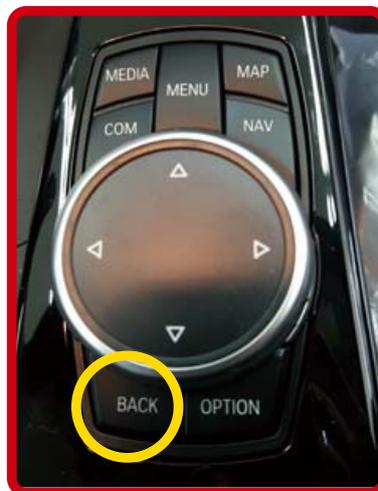
submenu

cursor of submenu position

## HOW TO ENTER SCREEN MENU (OSM)

REAR CAMERA MENU - to enter menu for REAR CAMERA - Please see below.  
This will display the rear camera menu for you to make your adjustments.

VIDEO MENU - to enter menu for VIDEO - Please see below.  
This will display the Video menu for you to make your adjustments.



HOLD "BACK" BUTTON OF IDRIVE CONTROLLER OVER 10 secs  
TO ENTER THE ON SCREEN MENU

The purchaser and end user shall indemnify, defend and hold harmless NAV TV, its members, managers, officers, directors, affiliated entities, agents and employees against all damages, claims, liabilities, losses and other expenses including legal fees and costs, that in any way arise out of or relate to the negligent or wilful acts or omissions of the purchaser and end user with respect to the product and or operation of a vehicle which contains the product. Video in Motion (TV Free) products are designed for passenger entertainment use only.

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and Canada or +1-561-955-9770  
internationally. You may also email  
us at [tech@navtv.com](mailto:tech@navtv.com).**