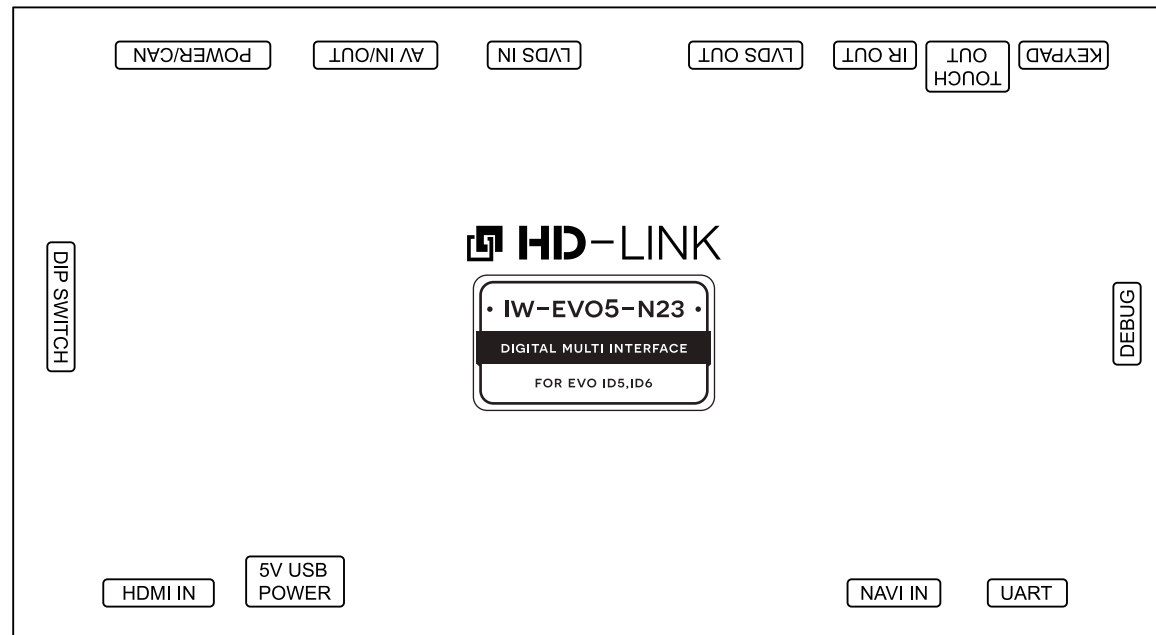


# Instruction Manual

## High-Definition Link for EVO ID5,ID6 **Without OEM Touch**

### IW-EVO5-N23



|                      |                |
|----------------------|----------------|
| Model Name           | IW-EVO5-N23    |
| Latest Firmware Date | 2019 - 06 - 03 |
| Manual Version       | Rev. 1.9       |
| Language             | English        |

# Contents

|                                                                          |                                                                                       |
|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ● Precautions _____                                                      |    |
| ● Car Compatibility Chart <b>BMW</b> _____                               |    |
| ● Car Compatibility Chart <b>MINI</b> _____                              |    |
| ● Dimension & Exterior _____                                             |    |
| ● Components & Optional Parts _____                                      |    |
| ● Body Connector specifications _____                                    |    |
| ● Body Connector specifications _____                                    |    |
| ● Full Installation Diagram _____                                        |    |
| ● DIP Switch Settings _____                                              |    |
| ● Activation by original buttons _____                                   |    |
| ● Activation by original buttons <b>A-LINK, M2C</b> _____                |    |
| ● External Camera Script _____                                           |    |
| ● Around View Script _____                                               |    |
| ● DVB-T Connection Diagram _____                                         |   |
| ● Settings <b>(How To Use KEYPAD)</b> _____                              |  |
| ● Settings HDMI _____                                                    |  |
| ● Settings HDMI, NAVIGATION _____                                        |  |
| ● Settings REAR VIEW _____                                               |  |
| ● Settings REAR VIEW _____                                               |  |
| ● Settings AV1 (FRONT VIEW) <b>(OEM Camera delay time setting)</b> _____ |  |
| ● Settings AV2 (DVBT) _____                                              |  |
| ● Settings CUSTOM _____                                                  |  |

# Precautions

- **IW-EVO5-N23 - related**

You should check the names and colors of each wires exactly, before you connect the wires.

ex) CAN HIGH: White wires / CAN LOW: Blue wires

**The 'POWER / CAN Cable' should always be connected last and be disconnected first.**

The 'Mode Switch' is an optional part to change modes forcibly without CAN-BUS.

Generally, the CAN-BUS wires are connected for changing modes by original buttons.

When the reverse gear is not detected by CAN-BUS,  
the 'REVERSE 12V IN wire' should be spliced with 1 2V power of reverse light.

- **HDMI Device-related**

HDMI mode accepts general-screen resolution of HDMI devices.

Generally, '5V 1A Power output(5V USB POWER)' is a standard voltage for charging smartphone.

If you need higher voltage than 5V, you should add a separate power supply.

- **Navigation(GPS) box - related**

When you connect the power wires(B+, ACC) to the navigation(GPS) box,  
the 'NAVI 12V OUT' wire supported by IW-EVO5-N23 should be spliced with an ACC wire of navigation box.

The navigation box should be powered off before unplugging the HDMI cable.

# Car Compatibility Chart **BMW**

| Car Models     | Production Year | Specific Models                             |
|----------------|-----------------|---------------------------------------------|
| 1 Series (F20) | 2017 -          | - NBT EVO i-Drive6 <b>Without OEM Touch</b> |
| 3 Series (F30) | 2017 -          | - NBT EVO i-Drive6 <b>With OEM Touch</b>    |
| 5 Series (G30) | 2017 -          | - NBT EVO i-Drive6 <b>Without OEM Touch</b> |



**2017- 1 Series F20**



**2017- BMW 3 Series F30**



**2017 1Series F20**



**2017 3Series F30**



**2017 5Series G30**



# Car Compatibility Chart **MINI**

| Car Models      | Production Year | Specific Models                                  |
|-----------------|-----------------|--------------------------------------------------|
| MINI            | 2017 -          | F56,F55,F57 8.8inch Screen <b>With OEM Touch</b> |
| Mini Countryman | 2017 -          | F60 8.8inch Screen <b>With OEM Touch</b>         |
| Mini Clubman    | 2017 -          | F54 8.8inch Screen <b>With OEM Touch</b>         |



**MINI 8.8 inch with oem Touch**



**MINI 8.8 inch**



**2018 MINI**



**2018 JOHN COOPER WORKS**



**2018 COUNTRYMAN**

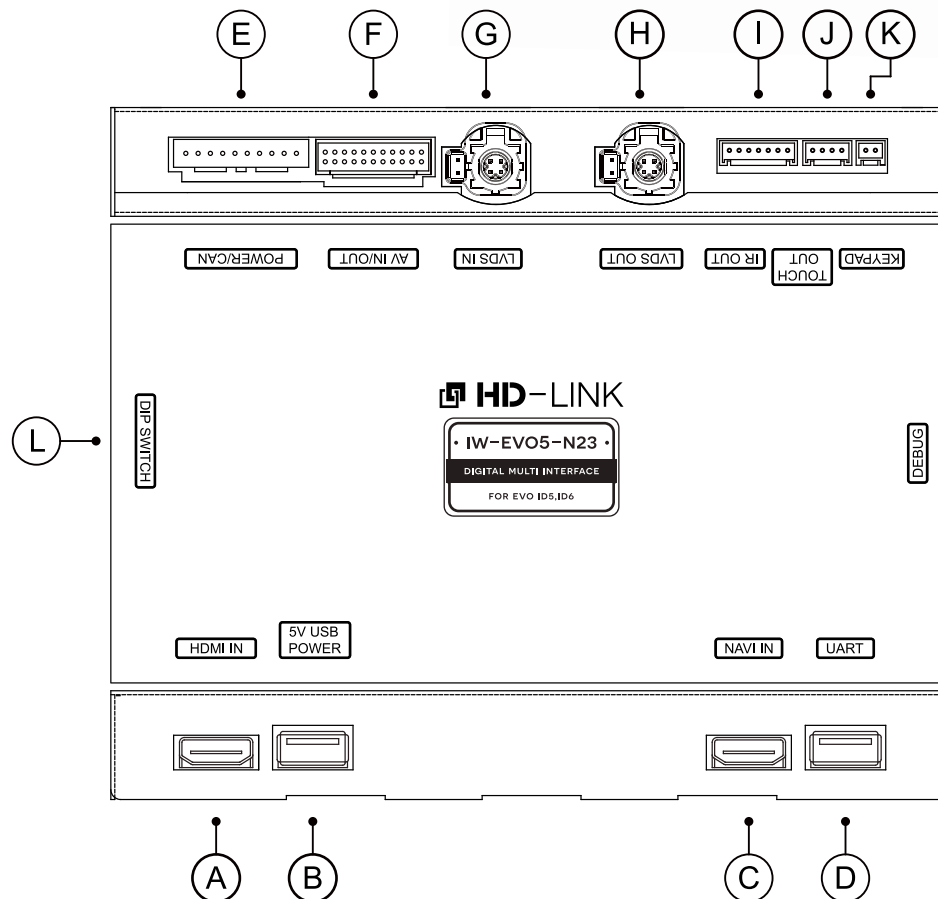


**2018 CLUBMAN**

## Dimension



## Exterior



- (A) HDMI IN
- (B) 5V USB POWER
- (C) NAVI IN
- (D) UART

- (E) POWER/CAN
- (F) AV IN/OUT
- (G) LVDS IN
- (H) LVDS OUT
- (I) IR OUT
- (J) TOUCH OUT
- (K) KEY PAD
- (L) DIP SWITCH

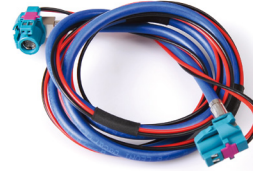
## Components



**1. Quadlock Connector**



**2. Power Cable**



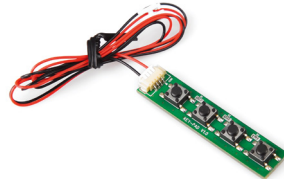
**3. LVDS Cable**



**4. AV Cable**



**4. IR Cable**



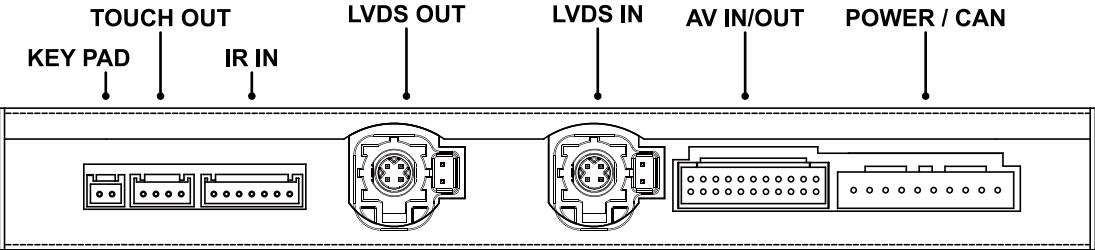
**5. KEYPAD**

## Optional Parts (sold separately at the indiwork)

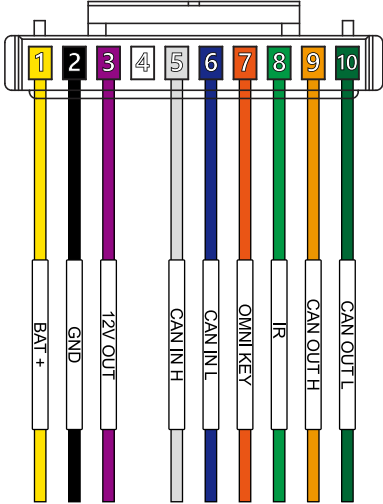


**Extend LVDS Cable**

# Body Connector specifications

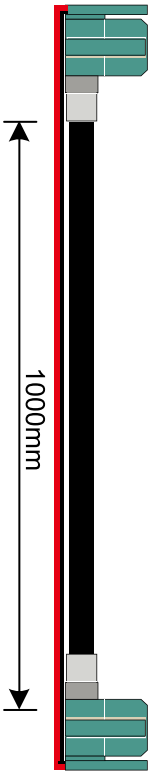


**POWER / CAN CABLE**

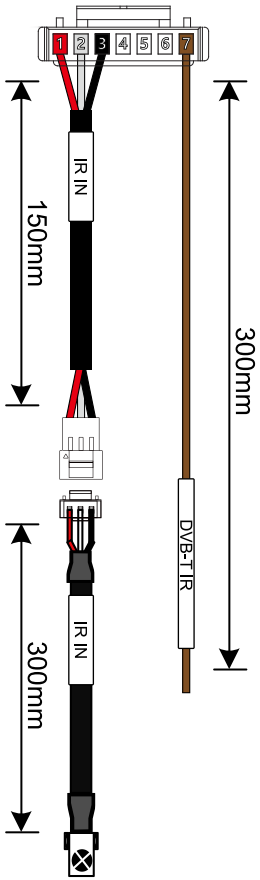


| POWER / CAN CABLE |                     |    |              |
|-------------------|---------------------|----|--------------|
| 1                 | BATTERY POWER INPUT | 2  | GROUND INPUT |
| 3                 | 12V(ACC) <b>OUT</b> | 4  | N.C.         |
| 5                 | CAN IN HIGH         | 6  | CAN IN LOW   |
| 7                 | OMNI KEY            | 8  | IR           |
| 9                 | CAN OUT HIGH        | 10 | CAN OUT LOW  |

**LVDS OUT CABLE**

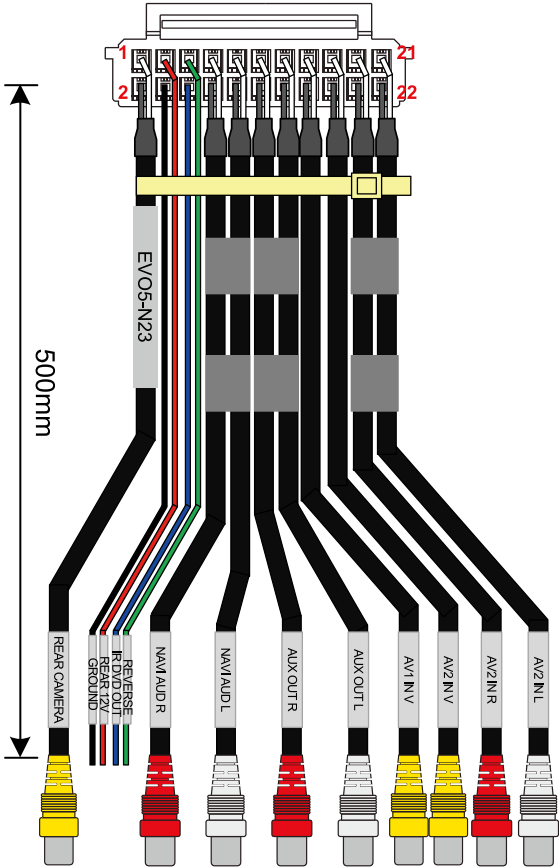


**IR CABLE**



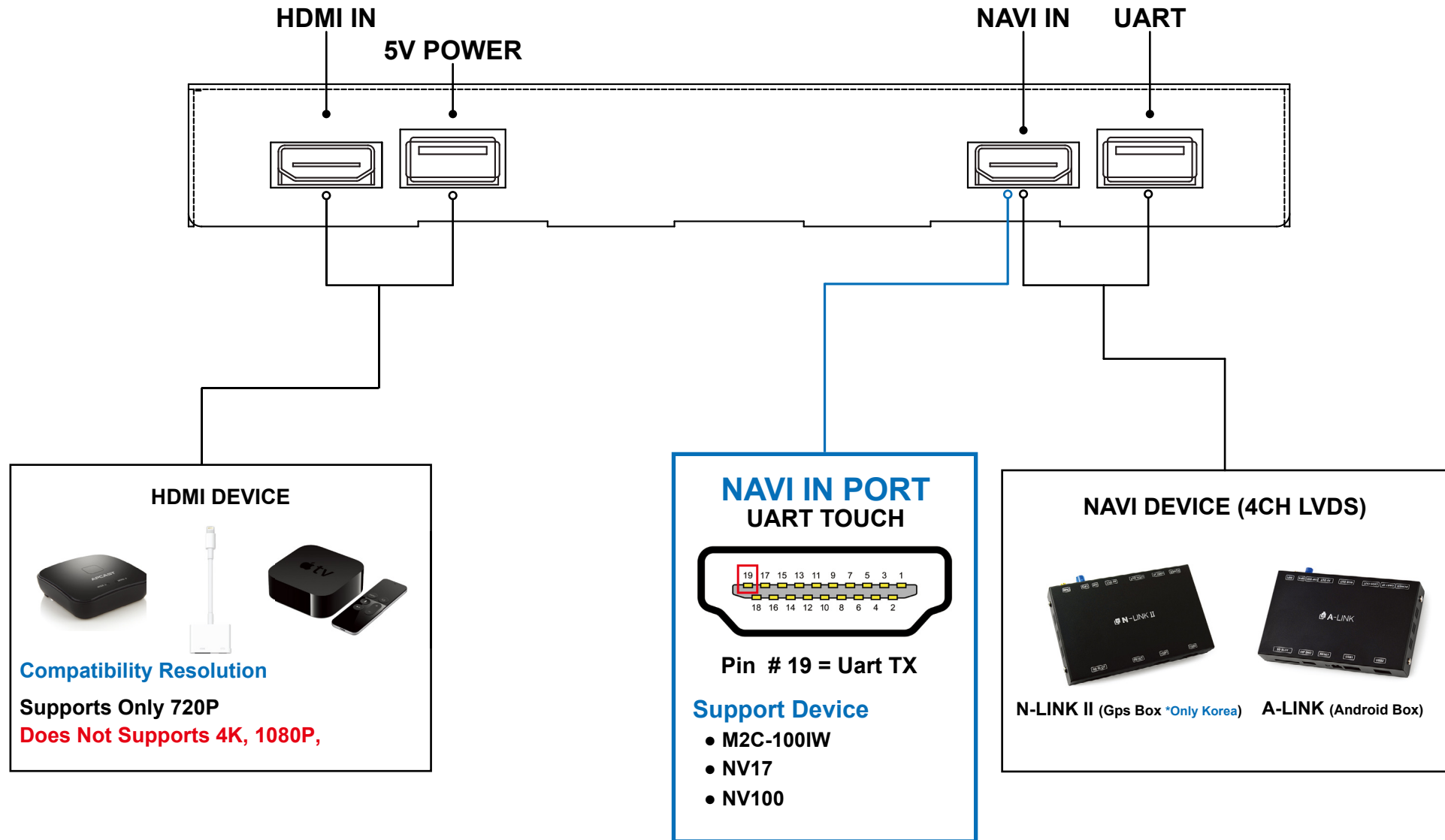
| IR CABLE |          |
|----------|----------|
| 1        | POWER    |
| 2        | SIGNAL   |
| 3        | GROUND   |
| 4        |          |
| 5        |          |
| 6        |          |
| 7        | DVB-T IR |

**AV CABLE**



| AV CABLE |             |    |               |
|----------|-------------|----|---------------|
| 1        | REAR CAMERA | 2  | NAVI_IN_R_GND |
| 3        | NAVI_IN_L   | 4  | NAVI_IN_L_GND |
| 5        | AUX_OUT_R   | 6  | AUX_OUT_R_GND |
| 7        | AUX_OUT_L   | 8  | AUX_OUT_L_GND |
| 9        | CAP_SCL     | 10 | CAP_GND       |
| 11       | CAP_SDA     | 12 | CAP_VDD_3.3V  |
| 13       | CAP_INT     | 14 | CAP_RST       |
| 15       | UART_TX     | 16 | UART_GND      |
| 17       | UART_RX     | 18 | IR_IN         |
| 19       | DVB-T_IR    | 20 | IR_GND        |
| 21       | DVD_IR      | 22 | IR_POWER      |

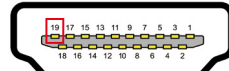
# Body Connector specifications



# Full Installation Diagram

Click  
Go to contents page

## NAVI IN PORT UART TOUCH



Pin # 19 = Uart TX

### Support Device

- M2C-100IW
- NV17
- NV100

## HDMI DEVICE



### Compatibility Resolution

**Supports Only 720P**  
**Does Not Supports 4K, 1080P,**

## NAVI DEVICE (4CH LVDS)



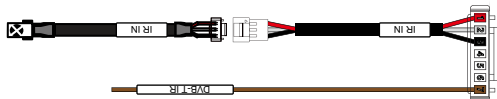
**N-LINK II** (Gps Box \*Only Korea) **A-LINK** (Android Box)

## KEYPAD

It's only for Setting menu



## DVB-TV IR

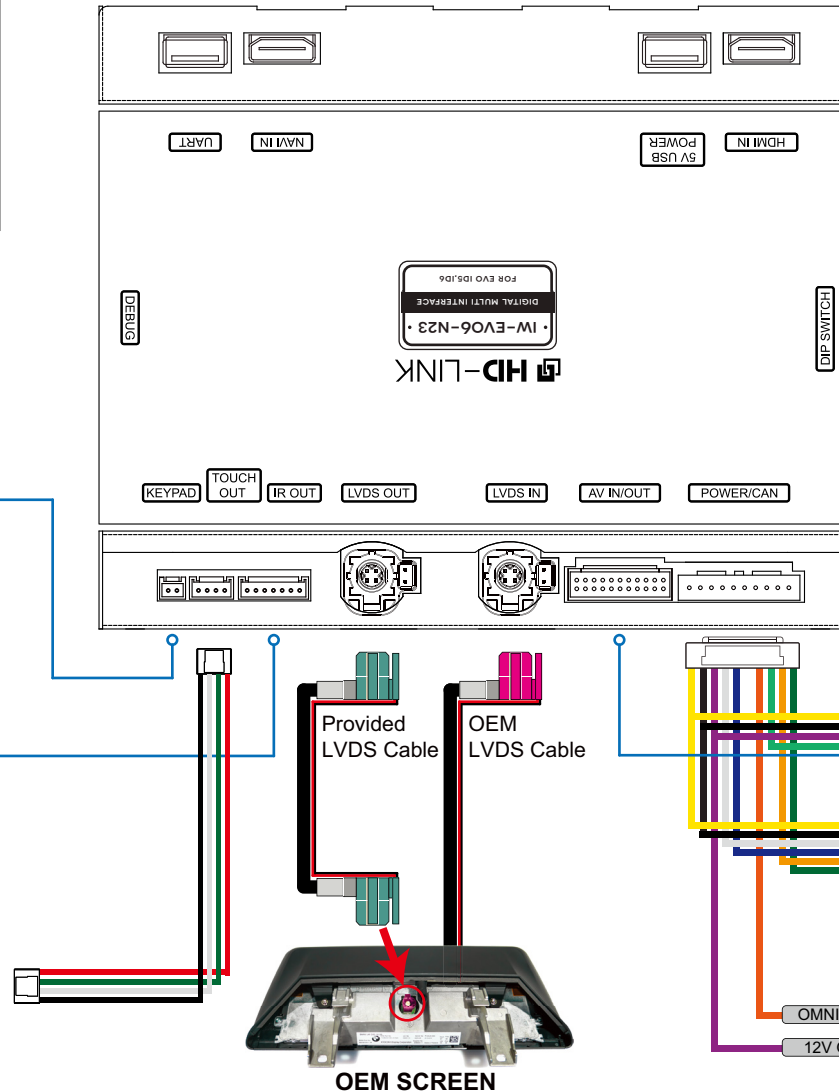


## Navi Device

※ **N-LINK** , **A-LINK** do not need to connect

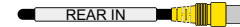
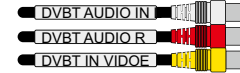
Touch Cable  
Spec

|       |    |       |
|-------|----|-------|
| PIN 1 | X- | Black |
| PIN 2 | Y- | White |
| PIN 3 | X+ | Green |
| PIN 4 | Y+ | RED   |



## AV IN 1 CABLE

The sounds is automatically  
switched (HDMI, NAVI, DVB-T)



AV DEVICE



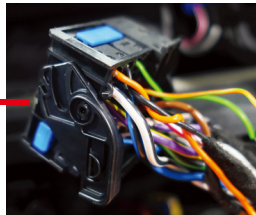
FRONT CAMERA



REAR CAMERA

## Extend HDMI LINK

## OEM Quadlock Connector

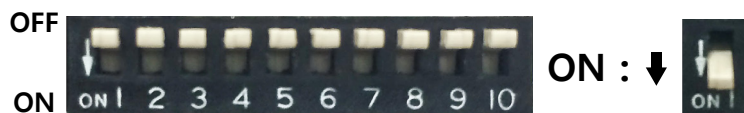


## NBT EVO Head Unit



※ When installing the interface for the first time,  
press **OPTION** button for more than 10 seconds to initialize it.

# DIP Switch Settings



| PIN | ON (▼)                               | OFF(▲)                                           |
|-----|--------------------------------------|--------------------------------------------------|
| 1   | HDMI Mode                            | <b>Skip</b> HDMI Mode                            |
| 2   | Navigation Mode                      | <b>Skip</b> Navigation Mode                      |
| 3   | External Rear View Camera            | Original Rear View Mode<br><b>(OEM CAMERA)</b>   |
| 4   | External Front View Camera(AV1 Mode) | <b>Skip</b> External Front View Camera(AV1 Mode) |
| 5   | AV2(DVBT) Mode                       | <b>Skip</b> AV2(DVBT) Mode                       |
| 6   | Not Use                              | <b>Default OFF</b>                               |
| 7   | <b>With</b> OUT OEM Touch            | With OEM Touch                                   |
| 8   | Selection of car model               |                                                  |
| 9   |                                      |                                                  |
| 10  |                                      |                                                  |

|                                                                                                     | No.8          | No.9          | No.10         | Car Model                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------|---------------|---------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>BMW</b>    | OFF(▲)        | OFF(▲)        | <b>ON (▼)</b> | 2017~ BMW 1(F20) 6.5inch without OEM Touch<br>2017~ BMW 3(F30) 6.5inch without OEM Touch<br>2017~ BMW 5 (G30) 6.5inch without OEM Touch         |
|                                                                                                     | <b>ON (▼)</b> | OFF(▲)        | OFF(▲)        | 2017~ BMW 1(F20) 8.8inch <b>with OEM Touch</b><br>2017~ BMW 3(F30) 8.8inch <b>with OEM Touch</b><br>2017~ BMW 5 (G30) 8.8inch without OEM Touch |
| <br><b>MINI</b>   | OFF(▲)        | <b>ON (▼)</b> | OFF(▲)        | 2017~ MINI 8.8inch <b>with OEM Touch</b>                                                                                                        |
| <br><b>MINI</b> | <b>ON (▼)</b> | OFF(▲)        | <b>ON (▼)</b> | <b>Japan ver.</b><br>2017~ MINI (F56) 8.8inch <b>with OEM Touch</b><br>(PIP Screen size is different)                                           |
| <br><b>MINI</b> | <b>ON (▼)</b> | <b>ON (▼)</b> | <b>ON (▼)</b> | <b>Japan ver.</b><br>2017~ MINI (F60) 8.8inch <b>with OEM Touch</b><br>(PIP Screen size is different)                                           |



# Activation by original buttons



| Button                               | Function                                           | Operation                                                            | Remarks                                                                                                                       |
|--------------------------------------|----------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b><br>MENU                     | Changing Modes                                     | Press the button 2 seconds                                           | Order : HDMI → HDMI2 → HDMI3<br>→ NAVI → DVB-T → DVD → OEM                                                                    |
| <b>i-Drive Buttons</b>               | Changing Modes                                     | Press the button short time                                          | Return to the OEM mode in any modes.                                                                                          |
| <b>2 8</b><br>DIAL UP<br>DIAL RIGHT  | FULL<br>6:4 PIP<br>4:6 PIP                         | Move the Upwards<br><b>2 seconds</b>                                 | - Full size mode<br>- 6(HDMI, NAVI) : 4(OEM)<br>- 4(OEM : 6(HDMI, NAVI)                                                       |
| <b>3 9</b><br>DIAL DOWN<br>DIAL LEFT | Changing Modes                                     | Move the downwards<br><b>2 seconds</b>                               | Order : AV1 (Front View Camera)                                                                                               |
| <b>6</b><br>PARKING                  | Changing Modes                                     | Press the button short time                                          | Return to the OEM mode in any modes.                                                                                          |
|                                      |                                                    | When it function activate automatically                              | Return to the OEM mode in any modes.                                                                                          |
| <b>7</b>                             | Changing Modes                                     | Press the button short time                                          | Order : HDMI → HDMI2 → HDMI3<br>→ NAVI → DVB-T → DVD → OEM                                                                    |
| <b>4</b><br>BACK                     | <b>Power Reset</b>                                 | <b>Press the button 10 seconds</b>                                   | You can use this function when you get in trouble                                                                             |
| <b>5</b><br>OPTION                   | <b>Reset to factory default setting and power.</b> | <b>Press the button 10 seconds</b>                                   | You can use this function when you get in trouble                                                                             |
| <b>5</b><br>OPTION                   | Omni View Mode (KOREA Spec)                        | Press the button                                                     | Change the Omni View Mode                                                                                                     |
| <b>2 8</b><br>DIAL UP<br>DIAL RIGHT  | <b>VIM</b>                                         | Move the Upwards <b>5 seconds</b><br>Move the RIGHT <b>5 seconds</b> | Always it need to activation by button for using it function.<br>(When you power off. It functions will be OFF) Default : OFF |

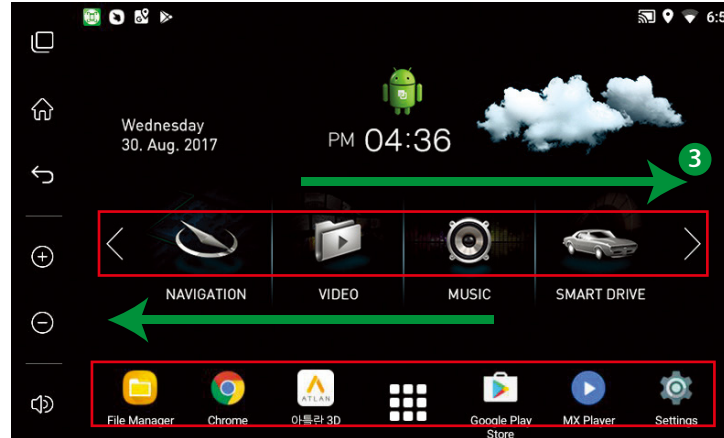
※ When installing the interface for the first time,  
press **OPTION** button for more than 10 seconds to initialize it.



# Control Some of Function of **A-LINK,M2C** by original buttons

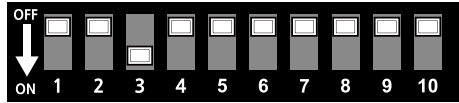


| Button      | Function                                           | Operation                   |
|-------------|----------------------------------------------------|-----------------------------|
| 1           | Move Left,Right                                    | Turn the Dial               |
| 2           | Move Up,Down                                       | Move the dial up or down    |
| 3           | Next page, Previous page                           | Move the dial left or right |
| 4<br>BACK   | Back to previous menu when press the button short. | Press the button short time |
| 5<br>OPTION | Back to Home Main screen                           | Press the button short time |
|             | Select,Enter                                       | Press the button            |



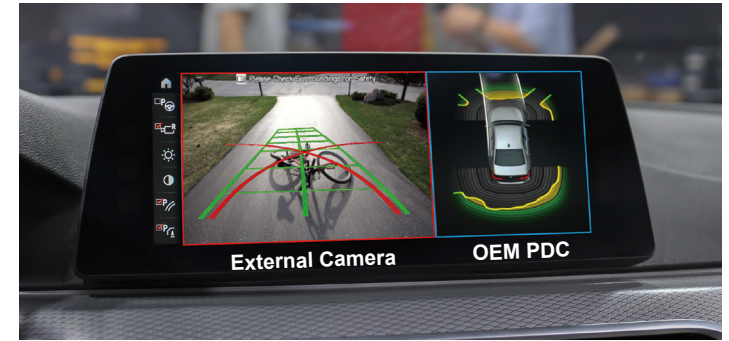
※ Some applications of A-LINK might not be able to operate with i-Drive button.

# External Camera Script



How to setting

| IW-BMW-EVO-N23  |                        |                   |
|-----------------|------------------------|-------------------|
| HDMI 1          | INPUT SOURCE           | EXTERNAL CAMERA   |
| HDMI 2          | BRIGHT                 | 128               |
| HDMI 3          | CONTRAST RED           | 128               |
| NAVIGATION      | CONTRAST GREEN         | 128               |
| REAR VIEW       | CONTRAST BLUE          | 128               |
| FRONT VIEW      | AVM KEEPING TIME R → D | 7 Sec             |
| CVBS 1 - DVBT   | AVM KEEPING TIME P → D | 7 Sec             |
| CVBS 2 - DVD    | PGS ON / OFF           | OFF               |
| CUSTOM          | ADJUST - HORIZONTAL    | 128               |
| EXIT            | ADJUST - VERTICAL      | 128               |
| DIP SWITCH INFO |                        | FIRMWARE DATE     |
|                 |                        | MAIN : 2018-03-02 |
|                 |                        | SUB : 2018-03-02  |
|                 |                        | TW23 : 2018-03-02 |

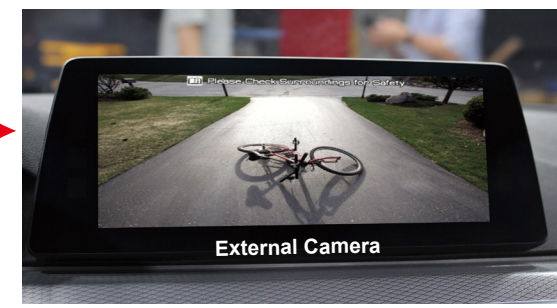
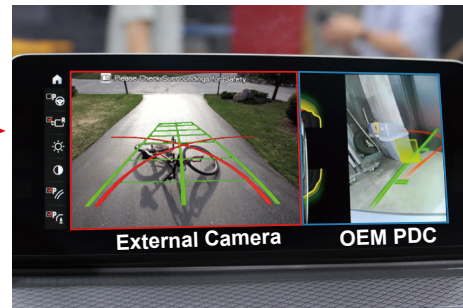


When you shift gear reverse  
It screen will be working to PIP  
<Left :External Camera> <Right : OEM PDC Sensor>

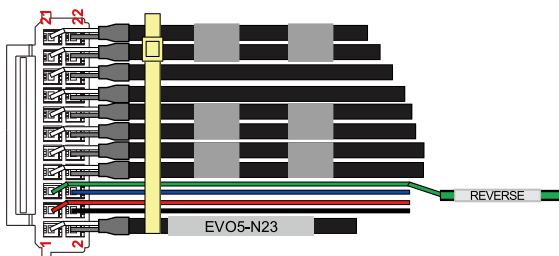
<PIP #1 Size>

<PIP #2 Size>

<Full Size>



<AV Cable>



12V IN



If it connected 12V to 'REVERSE 12V IN wire'  
The screen will be change to "External Camera mode"



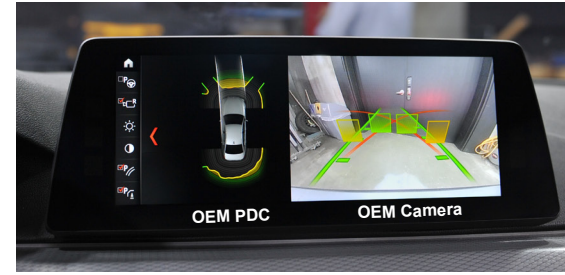
# Around View Script



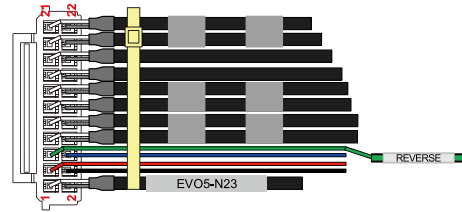
How to setting

| IW-BMW-EVO-N23  |                        |                   |
|-----------------|------------------------|-------------------|
| HDMI 1          | INPUT SOURCE           | AVM (AROUND VIEW) |
| HDMI 2          | BRIGHT                 | 128               |
| HDMI 3          | CONTRAST RED           | 128               |
| NAVIGATION      | CONTRAST GREEN         | 128               |
| REAR VIEW       | CONTRAST BLUE          | 128               |
| FRONT VIEW      | AVM KEEPING TIME R → D | 7 Sec             |
| CVBS 1 - DVBT   | AVM KEEPING TIME P → D | 7 Sec             |
| CVBS 2 - DVD    | PGS ON / OFF           | OFF               |
| CUSTOM          | ADJUST - HORIZONTAL    | 128               |
| EXIT            | ADJUST - VERTICAL      | 128               |
| DIP SWITCH INFO |                        | FIRMWARE DATE :   |
|                 |                        | MAIN : 2018-03-02 |
|                 |                        | SUB : 2018-03-02  |
|                 |                        | TW23 : 2018-03-02 |

순정 후방카메라 화면



<AV Cable>



12V IN



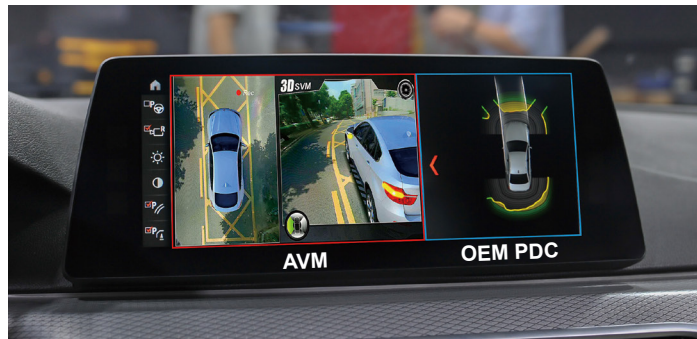
If it connected 12V to "REVERSE 12V IN wire"  
The screen will be change to "AVM mode"



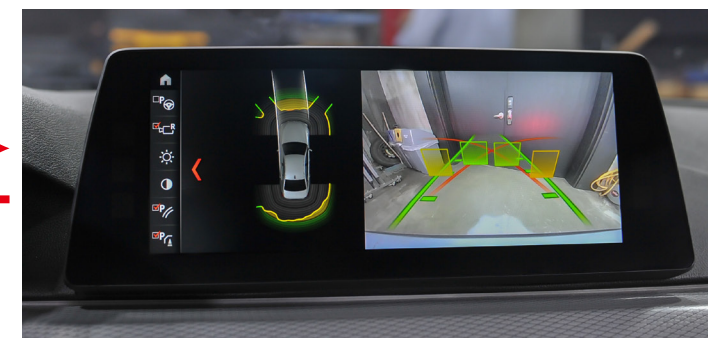
When you shift gear reverse and i-drive button up  
External Camera Screen size will be change <PIP Size> <Full Size>



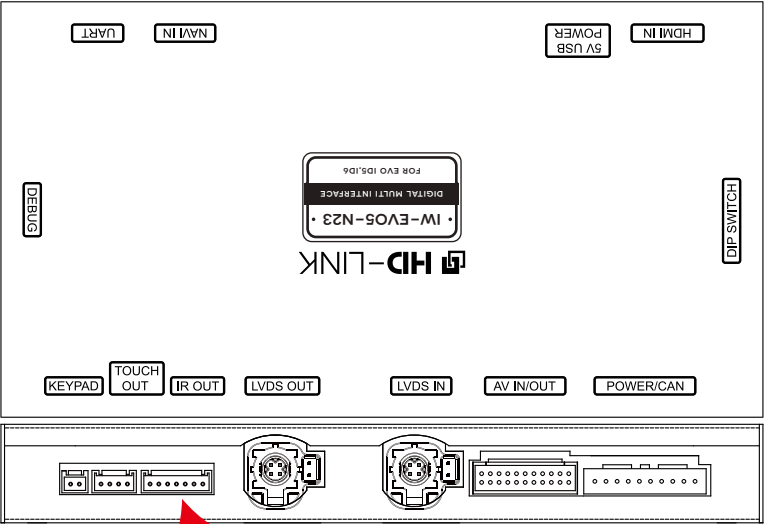
AVM  
Screen



OEM  
AVM



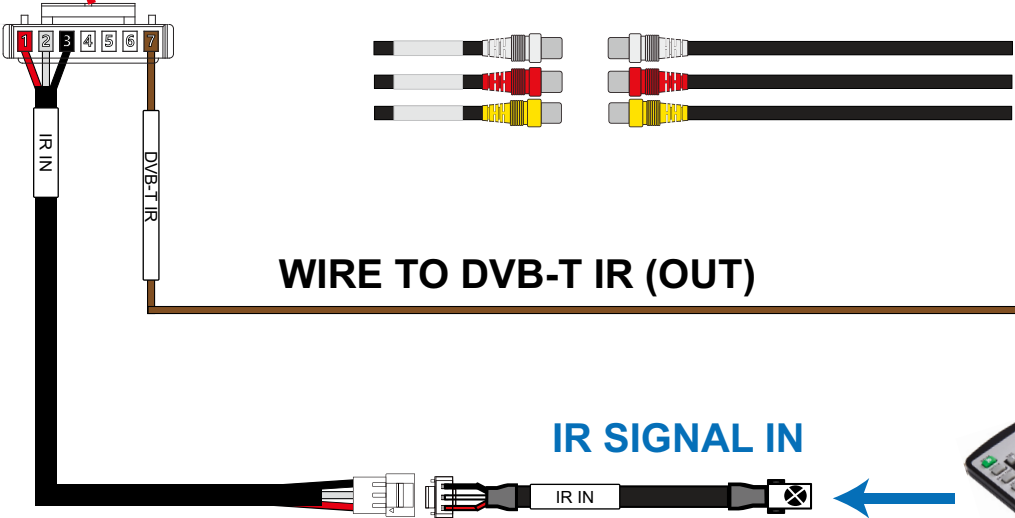
# DVB-T Diagram



**HDMI  
OR  
CVBS**



**DTV DEVICE**



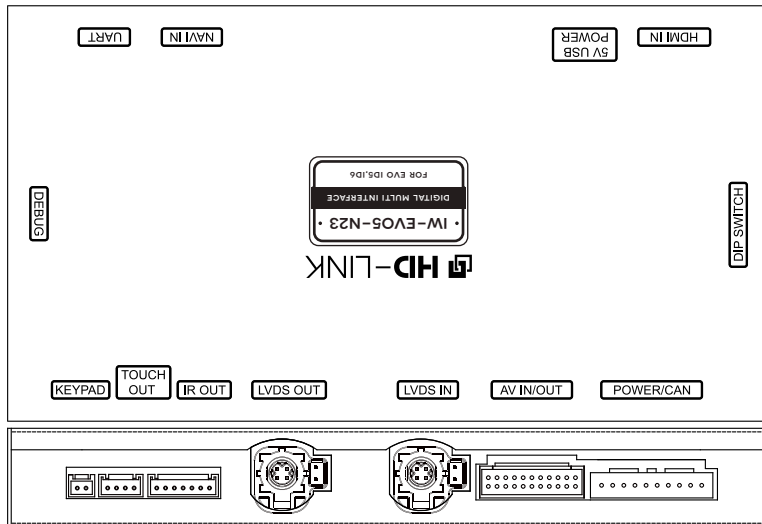
**WIRE TO DVB-T IR (OUT)**

**IR SIGNAL IN**

| DVB-TV IR Sensor |        |
|------------------|--------|
| Red              | POWER  |
| White            | SIGNAL |
| Black            | GROUND |
|                  |        |



# Settings (How To Use KEYPAD)

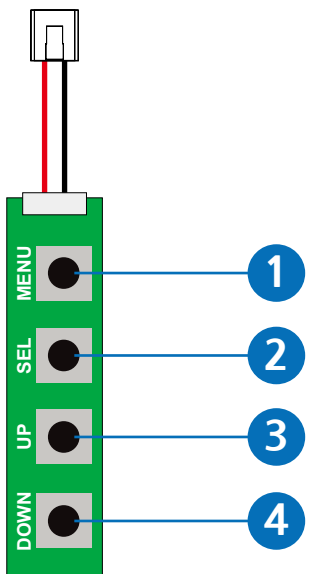


## KEYPAD - Function #1

| Button           | Function                    | Operation                   | Remarks                                                    |
|------------------|-----------------------------|-----------------------------|------------------------------------------------------------|
| <b>1</b><br>MENU | Changing Modes              | Press the button short time | Order : HDMI → HDMI2 → HDMI3<br>→ NAVI → DVB-T → DVD → OEM |
| <b>2</b><br>SEL  | Enter into the setting menu | Press the button short time |                                                            |

## KEYPAD - Function #2

| Button                          | Function                                               | Operation                   |
|---------------------------------|--------------------------------------------------------|-----------------------------|
| <b>1</b><br>MENU                | Back to previous menu<br>When press the button short.  | Press the button short time |
| <b>2</b><br>SEL                 | Select the setting menu<br>and setting values.         | Press the button short time |
| <b>3</b><br>UP <b>4</b><br>DOWN | Move the menu-pointer<br>and adjust the setting values | Press the button short time |



# Settings

| IW-EVO5-N23                                                                       |                |                   |
|-----------------------------------------------------------------------------------|----------------|-------------------|
| HDMI 1                                                                            | INPUT SOURCE   | DEFAULT           |
| HDMI 2                                                                            | BRIGHT         | AVM               |
| HDMI 3                                                                            | CONTRAST RED   | DTV               |
| NAVIGATION                                                                        | CONTRAST GREEN |                   |
| REAR VIEW                                                                         | CONTRAST BLUE  |                   |
| AV1 (FRONT VIEW)                                                                  |                |                   |
| AV2 (DTV)                                                                         |                |                   |
| NONE                                                                              |                |                   |
| CUSTOM                                                                            |                |                   |
| EXIT                                                                              |                |                   |
| DIP SWITCH INFO :                                                                 |                | FIRMWARE DATE :   |
|  |                | MAIN : 2018-03-02 |
|                                                                                   |                | SUB : 2018-03-02  |
|                                                                                   |                | TW23 : 2018-03-02 |

| IW-EVO5-N23                                                                         |                        |                     |
|-------------------------------------------------------------------------------------|------------------------|---------------------|
| HDMI 1                                                                              | INPUT SOURCE           | AVM ( AROUND VIEW ) |
| HDMI 2                                                                              | BRIGHT                 | 128                 |
| HDMI 3                                                                              | CONTRAST RED           | 128                 |
| NAVIGATION                                                                          | CONTRAST GREEN         | 128                 |
| REAR VIEW                                                                           | CONTRAST BLUE          | 128                 |
| AV1 (FRONT VIEW)                                                                    | AVM KEEPING TIME R → D | 7 Sec               |
| AV2 (DTV)                                                                           | AVM KEEPING TIME P → D | 7 Sec               |
| NONE                                                                                | PGS ON / OFF           | OFF                 |
| CUSTOM                                                                              | PGS - HORIZONTAL       | 128                 |
| EXIT                                                                                | PGS - VERTICAL         | 128                 |
|                                                                                     | PDC ON / OFF           | OFF                 |
| DIP SWITCH INFO :                                                                   |                        | FIRMWARE DATE :     |
|  |                        | MAIN : 2018-03-02   |
|                                                                                     |                        | SUB : 2018-03-02    |
|                                                                                     |                        | TW23 : 2018-03-02   |

## HDMI - DEFALUT

### - INPUT SOURCE ( Hdmi device model select )

- **DEFALUT** (Basic HDMI Device)
- **AVM** ( 360° Around View Camera )
- **DTV** ( Digital Television )

### - BRIGHT and CONTRAST

Adjust the values of brightness and contrast

## HDMI INPUT - AVM

### - BRIGHT and CONTRAST

Adjust the values of brightness and contrast

### - AVM KEEPING TIME



If the keeping time set is **"OFF"**  
The AVM screen stayed  
When the "P" button while active and  
When the "P" button will be disabled.  
The Screen will be change to previous screen

- When you shift gear 'from reverse to drive' or 'from parking to drive', it just works automatically during the activation time you selected.

### - PGS (Parking Guide System)

- Adjust position of parking guide lines and select the lines 'ON or OFF'.



# Settings

| IW-EVO5-N23      |                     |            |
|------------------|---------------------|------------|
| HDMI 1           | INPUT SOURCE        | DTV        |
| HDMI 2           | BRIGHT              | 128        |
| HDMI 3           | CONTRAST RED        | 128        |
| NAVIGATION       | CONTRAST GREEN      | 128        |
| REAR VIEW        | CONTRAST BLUE       | 128        |
| AV1 (FRONT VIEW) | REMOTE OSD ON / OFF | ON         |
| AV2 (DTV)        | REMOTE TYPE         | ALPINE     |
| NONE             | MEMORY UP ①         | 0x807f807f |
| CUSTOM           | MEMORY DOWN ②       | 0x807f807f |
| EXIT             | MEMORY LEFT ③       | 0x807f807f |
|                  | MEMORY RIGHT ④      | 0x807f807f |
|                  | MEMORY OK ⑤         | 0x807f807f |
|                  | MEMORY MENU ⑥       | 0x807f807f |
|                  | MEMORY EXIT ⑦       | 0x807f807f |
|                  | MEMORY ETC1 ⑧       | 0x807f807f |
|                  | MEMORY ETC2 ⑨       | 0x807f807f |

DIP SWITCH INFO :


FIRMWARE DATE :  
MAIN : 2018-03-02  
SUB : 2018-03-02  
TW23 : 2018-03-02

| IW-EVO5-N23      |                  |         |
|------------------|------------------|---------|
| HDMI 1           | NAVIGATION MODEL | DEFAULT |
| HDMI 2           | BRIGHT           | 128     |
| HDMI 3           | CONTRAST RED     | 128     |
| NAVIGATION       | CONTRAST GREEN   | 128     |
| REAR VIEW        | CONTRAST BLUE    | 128     |
| AV1 (FRONT VIEW) |                  |         |
| AV2 (DTV)        |                  |         |
| NONE             |                  |         |
| CUSTOM           |                  |         |
| EXIT             |                  |         |

DIP SWITCH INFO :


FIRMWARE DATE :  
MAIN : 2018-03-02  
SUB : 2018-03-02  
TW23 : 2018-03-02

## HDMI INPUT - DTV

### - BRIGHT and CONTRAST

Adjust the values of brightness and contrast

### - REMOTE OSD ON / OFF

· You can control to some of function on DTV remote control by OSD UI

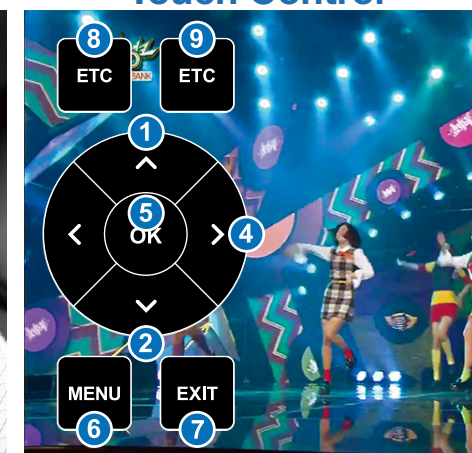
### - REMOTE TYPE

· ALPINE - TUE-T500 · Pioneer - GEX909 · HIT7700

#### i-Drive Control



#### Touch Control



## NAVIGATION

### - BRIGHT and CONTRAST

Adjust the values of brightness and contrast

## GPS BOX MODEL

< Using for UART in HDMI Navigation model must be setting >

- A-LINK , M2C-100 IW
- NV17
- NV100



# Settings

| IW-EVO5-N23                                                                       |                |                   |
|-----------------------------------------------------------------------------------|----------------|-------------------|
| HDMI 1                                                                            | INPUT SOURCE   | OEM CAMERA        |
| HDMI 2                                                                            | BRIGHT         | AVM (AROUND VIEW) |
| HDMI 3                                                                            | CONTRAST RED   | EXTERNAL CAMERA   |
| NAVIGATION                                                                        | CONTRAST GREEN |                   |
| REAR VIEW                                                                         | CONTRAST BLUE  |                   |
| AV1 (FRONT VIEW)                                                                  |                |                   |
| AV2 (DTV)                                                                         |                |                   |
| NONE                                                                              |                |                   |
| CUSTOM                                                                            |                |                   |
| EXIT                                                                              |                |                   |
| DIP SWITCH INFO :                                                                 |                | FIRMWARE DATE :   |
|  |                | MAIN : 2018-03-02 |
|                                                                                   |                | SUB : 2018-03-02  |
|                                                                                   |                | TW23 : 2018-03-02 |

| IW-EVO5-N23                                                                         |                        |                     |
|-------------------------------------------------------------------------------------|------------------------|---------------------|
| HDMI 1                                                                              | INPUT SOURCE           | AVM ( AROUND VIEW ) |
| HDMI 2                                                                              | BRIGHT                 | 128                 |
| HDMI 3                                                                              | CONTRAST RED           | 128                 |
| NAVIGATION                                                                          | CONTRAST GREEN         | 128                 |
| REAR VIEW                                                                           | CONTRAST BLUE          | 128                 |
| AV1 (FRONT VIEW)                                                                    | AVM KEEPING TIME R → D | 7 Sec               |
| AV2 (DTV)                                                                           | AVM KEEPING TIME P → D | 7 Sec               |
| NONE                                                                                | PGS ON / OFF           | OFF                 |
| CUSTOM                                                                              | PGS - HORIZONTAL       | 128                 |
| EXIT                                                                                | PGS - VERTICAL         | 128                 |
|                                                                                     | PDC ON / OFF           | OFF                 |
| DIP SWITCH INFO :                                                                   |                        | FIRMWARE DATE :     |
|  |                        | MAIN : 2018-03-02   |
|                                                                                     |                        | SUB : 2018-03-02    |
|                                                                                     |                        | TW23 : 2018-03-02   |

## REAR VIEW INPUT - OEM CAMERA

### - INPUT SOURCE

- OEM CAMERA
- AVM ( 360° Around View Camera )
- EXTERNAL CAMERA

### - BRIGHT and CONTRAST

Adjust the values of brightness and contrast

## REAR VIEW INPUT - AVM

### - BRIGHT and CONTRAST

Adjust the values of brightness and contrast

### - AVM KEEPING TIME



If the keeping time set is "OFF"  
The AVM screen stayed  
When the "P" button while active and  
When the "P" button will be disabled.  
The Screen will be change to previous screen

- When you shift gear 'from reverse to drive' or 'from parking to drive', it just works automatically during the activation time you selected.

### - PGS (Parking Guide System)

- Adjust position of parking guide lines and select the lines 'ON or OFF'.

# Settings

| IW-EVO5-N23                                                                       |                  |                                                            |
|-----------------------------------------------------------------------------------|------------------|------------------------------------------------------------|
| HDMI 1                                                                            | INPUT SOURCE     | EXTERNAL CAMERA                                            |
| HDMI 2                                                                            | BRIGHT           | 128                                                        |
| HDMI 3                                                                            | CONTRAST RED     | 128                                                        |
| NAVIGATION                                                                        | CONTRAST GREEN   | 128                                                        |
| REAR VIEW                                                                         | CONTRAST BLUE    | 128                                                        |
| AV1 (FRONT VIEW)                                                                  | PGS ON / OFF     | OFF                                                        |
| AV2 (DTV)                                                                         | PGS - HORIZONTAL | 128                                                        |
| NONE                                                                              | PGS - VERTICAL   | 128                                                        |
| CUSTOM                                                                            | PDC ON / OFF     | OFF                                                        |
| EXIT                                                                              |                  |                                                            |
| DIP SWITCH INFO :                                                                 |                  | FIRMWARE DATE :                                            |
|  |                  | MAIN : 2018-03-02<br>SUB : 2018-03-02<br>TW23 : 2018-03-02 |

## REAR VIEW INPUT - EXTERNAL CAMERA

### - BRIGHT and CONTRAST

Adjust the values of brightness and contrast

### - PGS (Parking Guide System)

· Adjust position of parking guide lines and select the lines 'ON or OFF'.

# Settings

| IW-EVO5-N23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------|
| HDMI 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | INPUT SOURCE           | OEM CAMERA                                                 |
| HDMI 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CAM KEEPING TIME R → D | 7 Sec                                                      |
| HDMI 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CAM KEEPING TIME P → D | 7 Sec                                                      |
| NAVIGATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |                                                            |
| REAR VIEW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                                                            |
| AV1 (FRONT VIEW)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                            |
| AV2 (DTV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                                                            |
| NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |                                                            |
| CUSTOM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                            |
| EXIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |                                                            |
| DIP SWITCH INFO :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        | FIRMWARE DATE :                                            |
|         |                        | MAIN : 2018-03-02<br>SUB : 2018-03-02<br>TW23 : 2018-03-02 |

## AV1 (FRONT VIEW INPUT ) - OEM CAMERA

### - CAM KEEPING TIME

- When you shift gear 'from reverse to drive' or 'from parking to drive', it just works automatically during the activation time you selected.

| IW-EVO5-N23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------|
| HDMI 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | INPUT SOURCE           | EXTERNAL CAMERA                                            |
| HDMI 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BRIGHT                 | 128                                                        |
| HDMI 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CONTRAST RED           | 128                                                        |
| NAVIGATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | CONTRAST GREEN         | 128                                                        |
| REAR VIEW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CONTRAST BLUE          | 128                                                        |
| AV1 (FRONT VIEW)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                            |
| AV2 (DTV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | CAM KEEPING TIME R → D | 7 Sec                                                      |
| NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CAM KEEPING TIME P → D | 7 Sec                                                      |
| CUSTOM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                                                            |
| EXIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |                                                            |
| DIP SWITCH INFO :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        | FIRMWARE DATE :                                            |
|         |                        | MAIN : 2018-03-02<br>SUB : 2018-03-02<br>TW23 : 2018-03-02 |

## AV1 (FRONT VIEW INPUT ) - EXTERNAL CAMERA

### - BRIGHT and CONTRAST

Adjust the values of brightness and contrast

### - FRONT CAM KEEPING TIME

- When you shift gear 'from reverse to drive' or 'from parking to drive', it just works automatically during the activation time you selected.

# Settings

| IW-EVO5-N23      |                     |            |
|------------------|---------------------|------------|
| HDMI 1           | INPUT SOURCE        | DTV        |
| HDMI 2           | BRIGHT              | 128        |
| HDMI 3           | CONTRAST RED        | 128        |
| NAVIGATION       | CONTRAST GREEN      | 128        |
| REAR VIEW        | CONTRAST BLUE       | 128        |
| AV1 (FRONT VIEW) | REMOTE OSD ON / OFF | ON         |
| AV2 (DTV)        | REMOTE TYPE         | ALPINE     |
| NONE             | MEMORY UP ①         | 0x807f807f |
| CUSTOM           | MEMORY DOWN ②       | 0x807f807f |
| EXIT             | MEMORY LEFT ③       | 0x807f807f |
|                  | MEMORY RIGHT ④      | 0x807f807f |
|                  | MEMORY OK ⑤         | 0x807f807f |
|                  | MEMORY MENU ⑥       | 0x807f807f |
|                  | MEMORY EXIT ⑦       | 0x807f807f |
|                  | MEMORY ETC1 ⑧       | 0x807f807f |
|                  | MEMORY ETC2 ⑨       | 0x807f807f |

DIP SWITCH INFO :

FIRMWARE DATE :  
MAIN : 2018-03-02  
SUB : 2018-03-02  
TW23 : 2018-03-02

## AV2 DTV

### - BRIGHT and CONTRAST

Adjust the values of brightness and contrast

### - REMOTE OSD ON / OFF

· You can control to some of function on DTV remote control by OSD UI

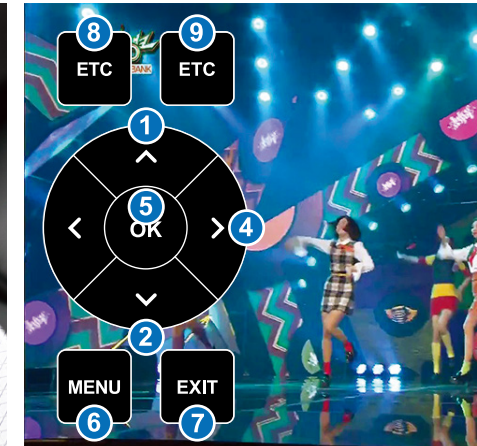
### - REMOTE TYPE

· ALPINE - TUE-T500 · Pionner - GEX909 · HIT7700

#### i-Drive Control



#### Touch Control



## Settings

|                                                                                   |                 |                   |
|-----------------------------------------------------------------------------------|-----------------|-------------------|
| IW-EVO5-N23                                                                       |                 |                   |
| HDMI 1                                                                            | IDRIVE ON / OFF | ON                |
| HDMI 2                                                                            | VOLUME PIP      | ON                |
| HDMI 3                                                                            |                 |                   |
| NAVIGATION                                                                        |                 |                   |
| REAR VIEW                                                                         |                 |                   |
| AV1 (FRONT VIEW)                                                                  |                 |                   |
| AV2 (DTV)                                                                         |                 |                   |
| NONE                                                                              |                 |                   |
| CUSTOM                                                                            |                 |                   |
| EXIT                                                                              |                 |                   |
| DIP SWITCH INFO :                                                                 |                 | FIRMWARE DATE :   |
|  |                 | MAIN : 2018-03-02 |
|                                                                                   |                 | SUB : 2018-03-02  |
|                                                                                   |                 | TW23 : 2018-03-02 |

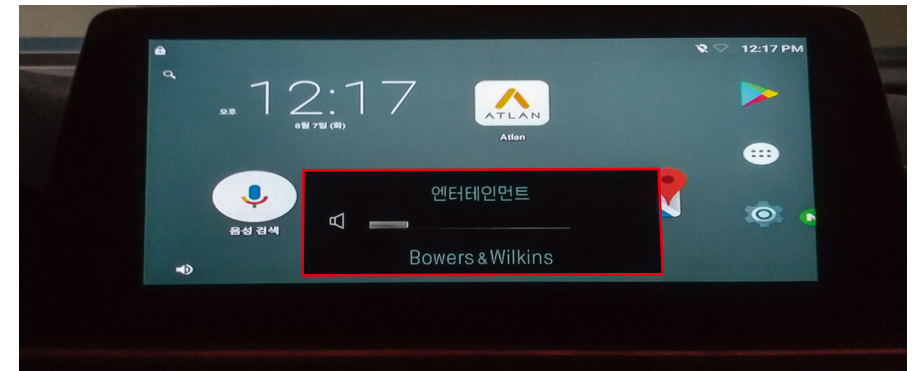
## CUSTOM

## - IDRIVE ON / OFF

- **ON** - When you use A-LINK. If you use i-drive buttons.  
The OEM function will be not working by i-drive buttons

**- VOLUME PIP ON / OFF**

- You can control to some of function on DTV remote control by OSD UI





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