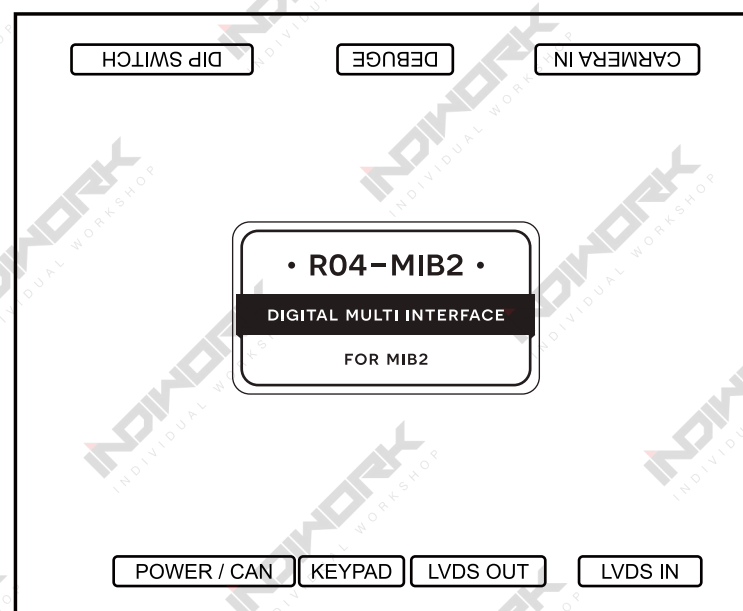


# Instruction Manual

REAR INTERFACE for MIB2

## R04-MIB2



|                      |                |
|----------------------|----------------|
| Model Name           | R04-MIB2       |
| Latest Firmware Date | 2020 - 02 - 28 |
| Manual Version       | Rev. 1.5       |
| Language             | English        |

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# Precautions

- **IW-MIB2-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 'Keypad' is an optional part to change modes forcibly without CAN-BUS.

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.

Please. Never input 12V power to the cable's REAR 12V OUT '

# Car Compatibility Chart



| Car Models | Production Year | Specific Models v                                    |
|------------|-----------------|------------------------------------------------------|
| A3         | 2013 - 2016     | - Audi A3 MMI Radio<br>- Audi A3 MMI Navigation Plus |
| A4         | 2016 -          | - MIB2 STD, MIB2 Main-Unit                           |
| A6         | 2016 -          | - 4G MMI                                             |
| A7         | 2016 -          | - 4G MMI                                             |
| Q5         | 2016 -          | - MIB2 STD, MIB2 Main-Unit                           |
| Q7         | 2016 -          | - MIB2 STD, MIB2 Main-Unit                           |



AUDI A3(7inch)



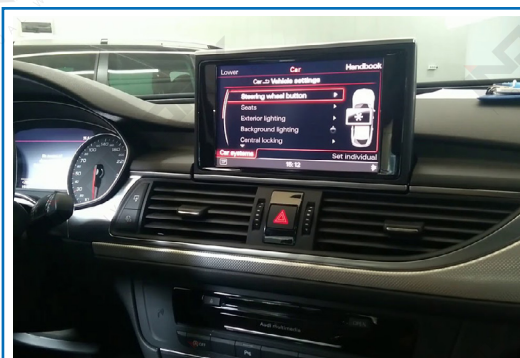
AUDI A3 (5.8inch)



AUDI A4 ,Q5



AUDI Q7



AUDI A6, A7



Click  
Go to DIP Swtich Setting page



Click  
Go to contents page

# Car Compatibility Chart



| Car Models | Production Year | Specific Models                                                                                                                      |
|------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|
| POLO       | 2016 -          | - VW Composition Media (6.5inch, 8-inch)<br>- VW Discover Media Pro (6.5inch, 8-inch)<br>- 2017 Discover Media, Pro(8inch, 9.2-inch) |
| GOLF       | 2016 -          | - VW Composition Media (6.5inch, 8-inch)<br>- VW Discover Media Pro (6.5inch, 8-inch)<br>- 2017 Discover Media, Pro(8inch, 9.2-inch) |
| TIGUAN     | 2016 -          | - 2017 Discover Media, Pro(8inch, 9.2-inch)                                                                                          |
| PASSAT     | 2016 -          | - 2017 Discover Media, Pro(8inch, 9.2-inch)                                                                                          |
|            |                 |                                                                                                                                      |



| Car Models | Production Year | Specific Models                             |
|------------|-----------------|---------------------------------------------|
| Octavia    | 2016 -          | - 2017 Discover Media, Pro(8inch, 9.2-inch) |



**Composition Media**  
(5.8inch, 6.5inch, 8inch)



**Discover Pro(8-inch)**  
**Discover Media (6.5inch, 8inch)**



**2017 Discover Media (8-inch)**



**2017 Discover Pro(9.2-inch)**



Click  
Go to DIP Swtich Setting page



Click  
Go to contents page

# Car Compatibility Chart



**PORSCHE**

| Car Models        | Production Year | Specific Models |
|-------------------|-----------------|-----------------|
| 911 Carrera (991) | 2017 -          | - PCM 4.0       |
| Macan             | 2017 -          | - PCM 4.0       |



**MACAN PCM 4.0**



**BENTLEY**

| Car Models | Production Year | Specific Models        |
|------------|-----------------|------------------------|
| BENTAYGA   | 2016 -          | - Bentley Infotainment |



**Bentley Infotainment**

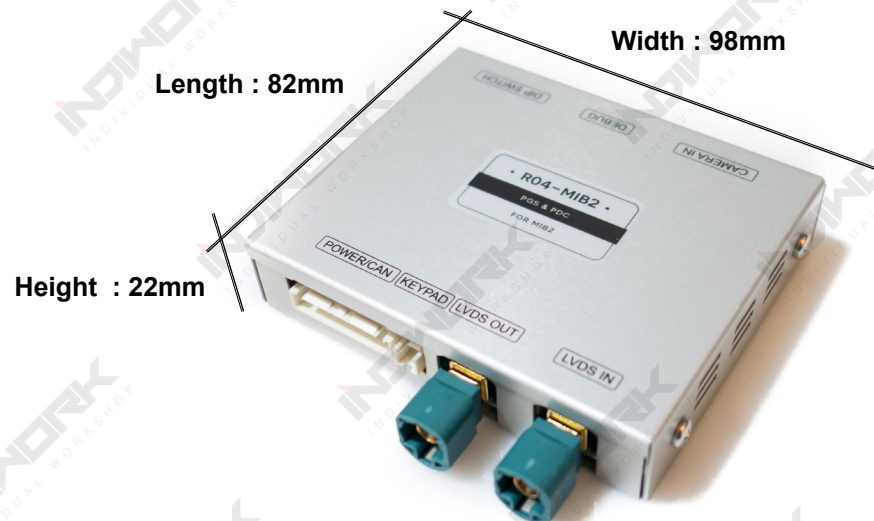


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Go to DIP Swtich Setting page

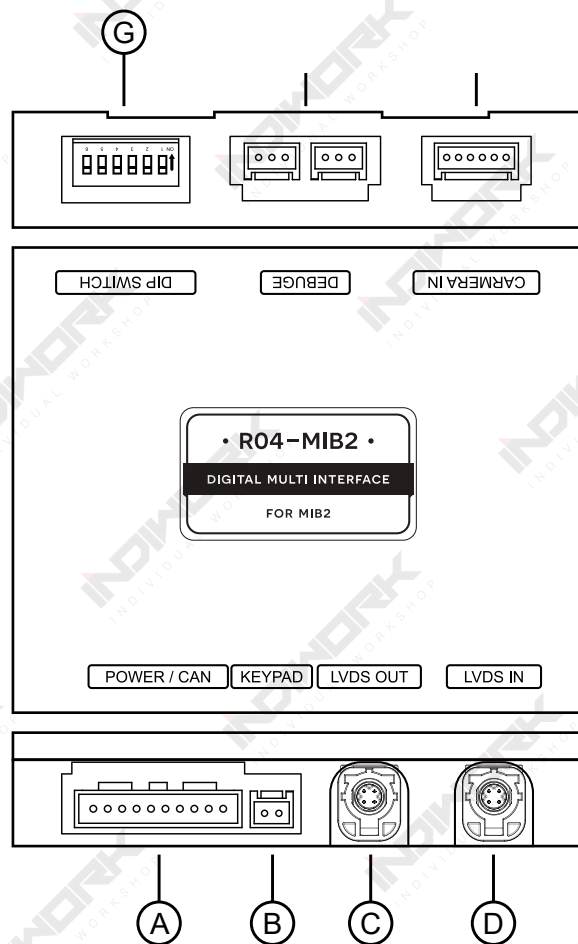


Click  
Go to contents page

## Dimension



## Exterior



- Ⓐ POWER / CAN
- Ⓑ KEYPAD
- Ⓒ LVDS OUT
- Ⓓ LVDS IN
- Ⓔ CAMERA IN
- Ⓕ DEBUG
- Ⓖ DIP SWITCH

# Components



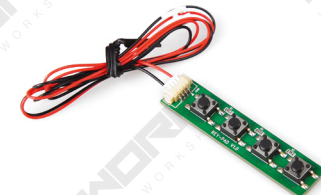
**1.Power Cable**



**2.LVDS Cable**



**3.LVDS Cable**



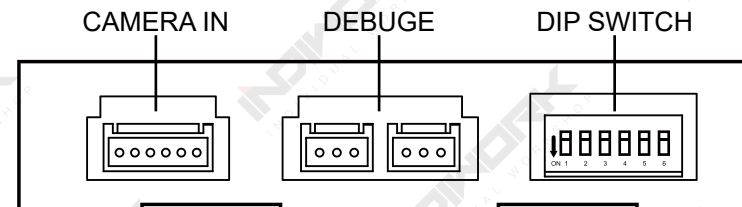
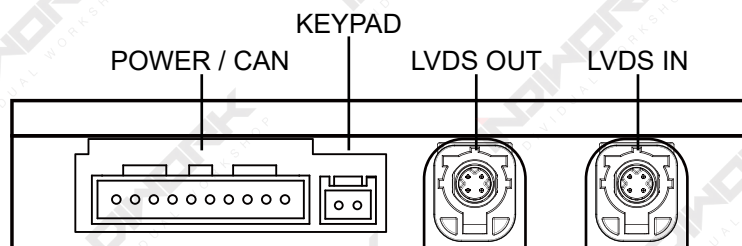
**4.LVDS Cable**

## Optional Parts (sold separately at the indiwork)

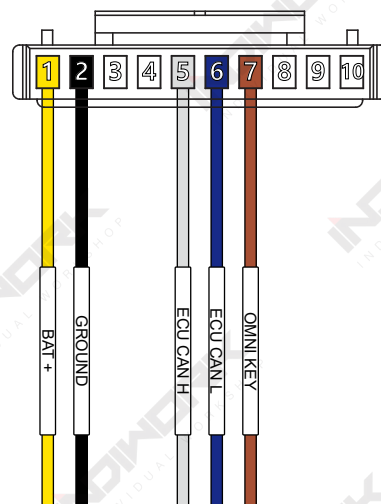


**Extend LVDS Cable**

# Body Connector specifications



**POWER/CAN CABLE**

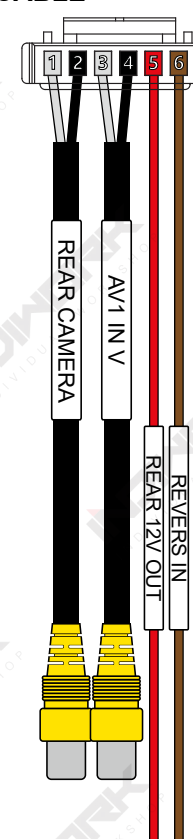


| POWER / CAN CABLE |                     |
|-------------------|---------------------|
| 1                 | BATTERY POWER INPUT |
| 2                 | GROUND              |
| 3                 |                     |
| 4                 |                     |
| 5                 | ECU_CAN_H           |
| 6                 | ECU_CAN_L           |
| 7                 | OMNI KEY            |
| 8                 |                     |
| 9                 |                     |
| 10                |                     |

**LVDS CABLE**



**AV CABLE**



| AV CABLE |                         |
|----------|-------------------------|
| 1        | RV-CAM VIDEO INPUT      |
| 2        | GND(RV-CAM VIDEO)       |
| 3        | AV1 VIDEO INPUT         |
| 4        | GND(AV1 VIDEO IN)       |
| 5        | RV-CAM POWER <b>OUT</b> |
| 6        | REVERSE DETECTION       |

# Full Installation Diagram

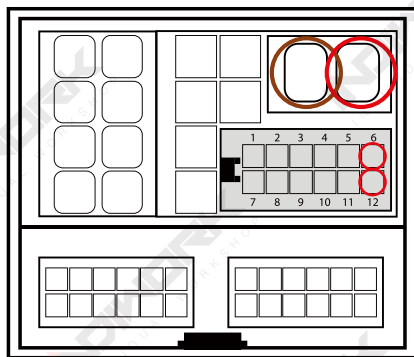
Click  
Go to contents page

## DIP Switch Settings

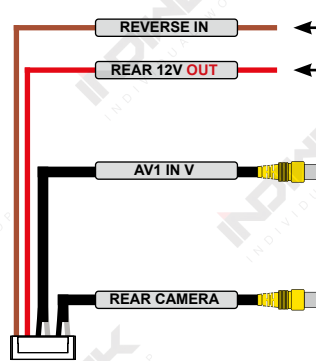
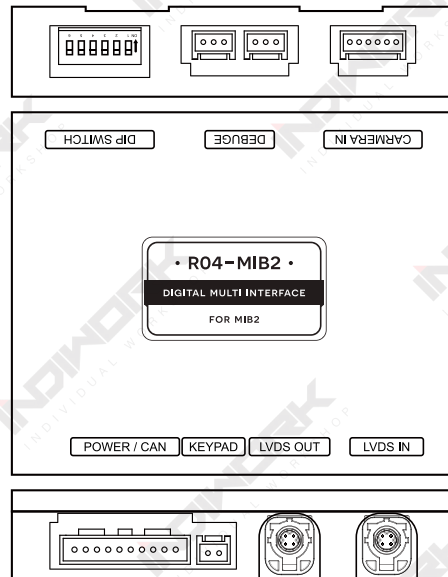
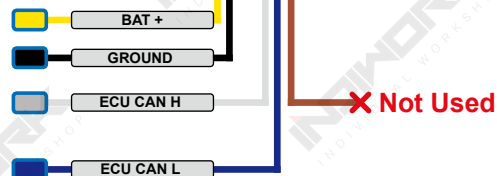


| PIN | ON (▼)                               | OFF (▲)                                   |
|-----|--------------------------------------|-------------------------------------------|
| 1   | External Rear View Camera            | Original Rear View Mode<br>(OEM CAMERA)   |
| 2   | External Front View Camera(AV1 Mode) | Skip External Front View Camera(AV1 Mode) |
| 3   | Selection of car model               |                                           |
| 4   |                                      |                                           |
| 5   |                                      |                                           |
| 6   |                                      |                                           |

## MIB Head Unit Main Harness



- (Red,Gray) B+ Pin #
- (Black) Ground Pin #
- ECU Can High Pin # 6 = (Orange,Blue)
- ECU Can Low Pin # 12 = (Orange,Brown)

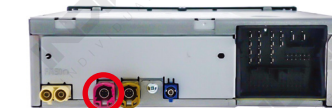


When the reverse gear is not detected by CAN-BUS, the 'REVERSE 12V IN wire' should be spliced with 12V power of reverse light.  
**Please. Never input 12V power to the cable's REAR 12V OUT ' wiring**



|            | No.3   | No.4   | No.5   | No.6   | Car Model                                  | Remarks                                                                                              |
|------------|--------|--------|--------|--------|--------------------------------------------|------------------------------------------------------------------------------------------------------|
| Volkswagen | OFF(▲) | OFF(▲) | OFF(▲) | OFF(▲) | VW / GOLF,PASSAT,TIGUAN<br>SKODA / Octavia | 2017 Discover Media / 8-inch<br>Discover Media, Pro / 6.5, 8-inch<br>Composition Media / 6.5, 8-inch |
|            | OFF(▲) | ON(▼)  | OFF(▲) | OFF(▲) | VW / GOLF,PASSAT,TIGUAN<br>SKODA / Octavia | 2017 Discover Pro / 9.2-inch                                                                         |
|            | OFF(▲) | ON(▼)  | ON(▼)  | OFF(▲) | VW / GOLF,PASSAT,TIGUAN<br>SKODA / Octavia | Composition Media / 5.8 inch<br>Composition Colour / 5.8 inch                                        |
|            | ON(▼)  | OFF(▲) | OFF(▲) | OFF(▲) | VW / GOLF,PASSAT,TIGUAN<br>SKODA / Octavia | 2017 Discover Media / 8-inch<br>Discover Media, Pro / 6.5, 8-inch<br>Composition Media / 6.5, 8-inch |
|            | ON(▼)  | ON(▼)  | ON(▼)  | OFF(▲) | VW / GOLF,PASSAT,TIGUAN<br>SKODA / Octavia | Composition Media / 5.8 inch<br>Composition Colour / 5.8 inch                                        |
|            | ON(▼)  | ON(▼)  | ON(▼)  | ON(▼)  | VW / GOLF,PASSAT,TIGUAN<br>SKODA / Octavia | Composition Media / 5.8 inch<br>Composition Colour / 5.8 inch                                        |
| Audi       | OFF(▲) | OFF(▲) | ON(▼)  | OFF(▲) | 2017~ Audi Q7<br>2017~ Audi Q5             | MIB2 / 8.3 inch                                                                                      |
|            | OFF(▲) | ON(▼)  | ON(▼)  | ON(▼)  | 2017~ Audi A4<br>2017~ Audi Q5             | MIB2 / 7 inch                                                                                        |
|            | ON(▼)  | OFF(▲) | OFF(▲) | ON(▼)  | 2013~2016 Audi A3                          | Audi A3 MMI Radio / 7 inch                                                                           |
|            | ON(▼)  | OFF(▲) | ON(▼)  | OFF(▲) | 2013~2016 Audi A3                          | Audi A3 MMI Radio / 5.8 inch<br>(Low Resolution)                                                     |
|            | ON(▼)  | OFF(▲) | ON(▼)  | ON(▼)  | 2016~ Audi A6(C7), A7(4G8)<br>*facelift    | MIB2 / 8 inch                                                                                        |
|            | ON(▼)  | OFF(▲) | ON(▼)  | ON(▼)  | 2016~ Audi A6(C7), A7(4G8)<br>*facelift    | MIB2 / 8 inch                                                                                        |
| Porsche    | OFF(▲) | ON(▼)  | OFF(▲) | ON(▼)  | Porsche Macan                              | PCM4.0 / 8 inch                                                                                      |
| Bentley    | OFF(▲) | OFF(▲) | OFF(▲) | ON(▼)  | Bentley BENTAYGA                           | MIB2 / 8 inch                                                                                        |

VW MIB2 Head Unit  
SKODA MIB2 Head Unit  
(OEM LVDS)



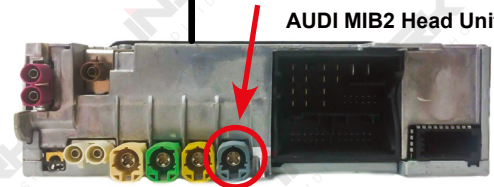
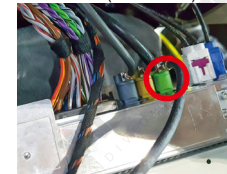
Bentley Head Unit  
(OEM LVDS)



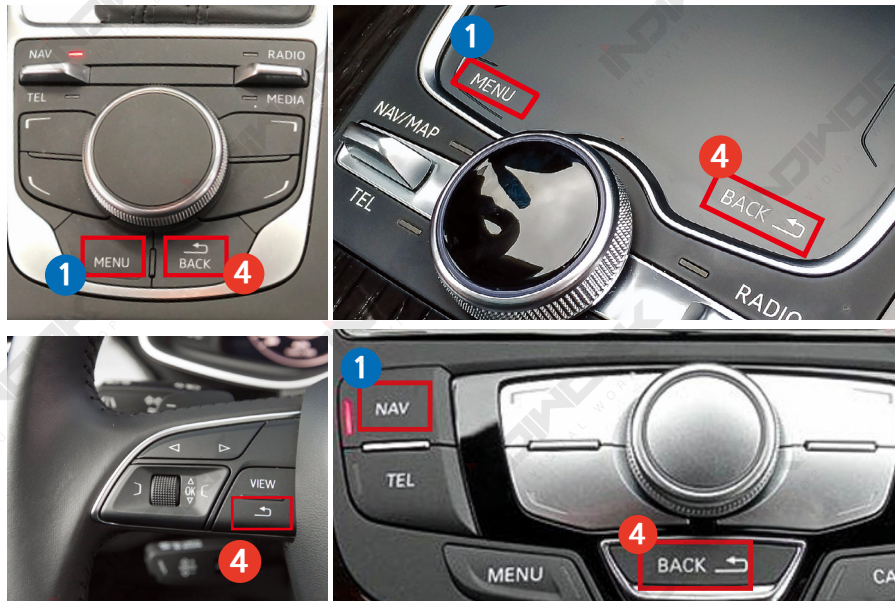
Porsche Head Unit  
PCM 4.1 (OEM LVDS)



Porsche Head Unit  
PCM 4.0 (OEM LVDS)



# Activation by original buttons



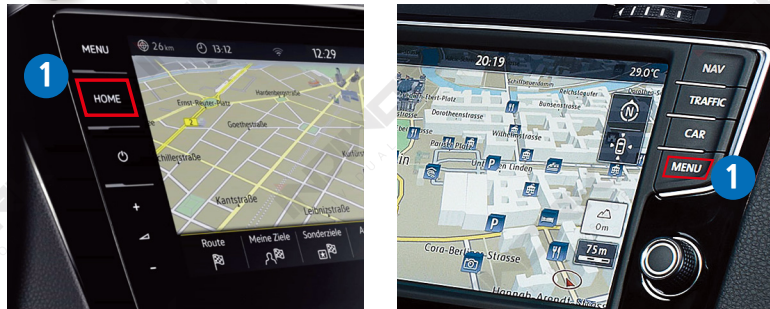
| Button                  | Function                   | Operation                          | Remarks                                           |
|-------------------------|----------------------------|------------------------------------|---------------------------------------------------|
| <b>4</b><br><b>BACK</b> | Changing Modes (Front Cam) | Press the button 2 seconds         | Order : AV1 (Front View Camera)                   |
|                         |                            | Press the button short time        | Order : AV1 → Previous screen                     |
| <b>1</b><br><b>MENU</b> | <b>Reset</b>               | Press the button <b>10 seconds</b> | You can use this function when you get in trouble |



**Volkswagen**



**SKODA**



2017 Discover Pro(9.2-inch) Volkswagen Discover Pro(8-inch)

| Button                        | Function                   | Operation                          | Remarks                                           |
|-------------------------------|----------------------------|------------------------------------|---------------------------------------------------|
| <b>2</b><br>▽                 | Changing Modes (Front Cam) | Press the button 2 seconds         | Order : AV1 (Front View Camera)                   |
|                               |                            | Press the button short time        | Order : AV1 → Previous screen                     |
| <b>3</b><br><b>PDC BUTTON</b> | Changing Modes             | Press the button short time        | Order : → OEM                                     |
| <b>1</b><br><b>MENU</b>       | <b>Reset</b>               | Press the button <b>10 seconds</b> | You can use this function when you get in trouble |



Steering Wheel Buttons



PDC Button

# Activation by original buttons



**PORSCHE**



Porsche PCM 4.0

| Button   | Function       | Operation                             | Remarks                                           |
|----------|----------------|---------------------------------------|---------------------------------------------------|
| 1<br>NAV | Changing Modes | Press the button 2 seconds            | Order : AV1 → OEM                                 |
|          |                | Press the button short time           | Return to the OEM mode in any modes.              |
| 1<br>NAV | Reset          | Press the button<br><b>10 seconds</b> | You can use this function when you get in trouble |

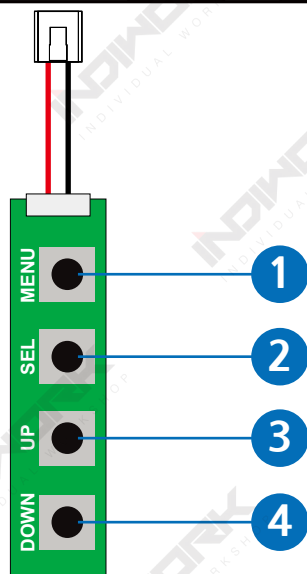
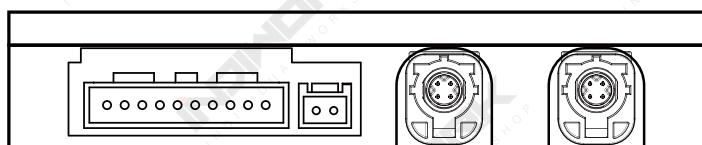
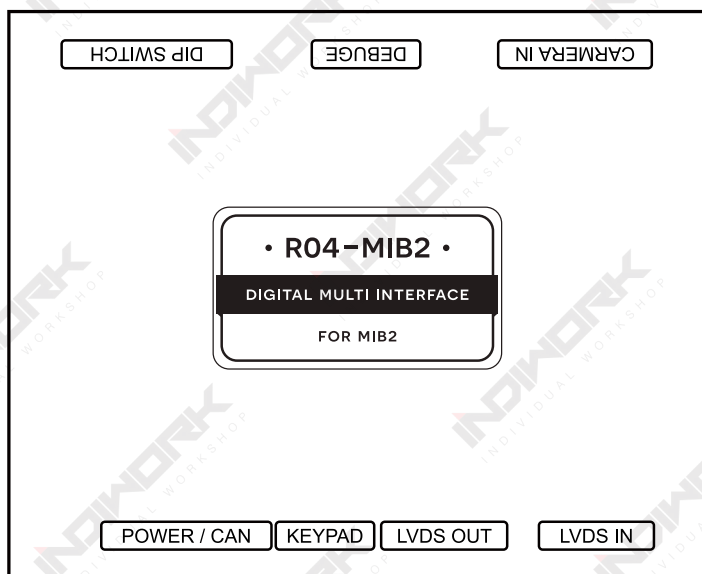


**BENTLEY**



| Button    | Function       | Operation                             | Remarks                                           |
|-----------|----------------|---------------------------------------|---------------------------------------------------|
| 1<br>HOME | Changing Modes | Press the button 2 seconds            | Order : AV1 → OEM                                 |
|           |                | Press the button short time           | Return to the OEM mode in any modes.              |
| 1<br>HOME | Reset          | Press the button<br><b>10 seconds</b> | You can use this function when you get in trouble |

# 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 : AV1 → 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

| R04-MIB2                                                                          |                |                   |
|-----------------------------------------------------------------------------------|----------------|-------------------|
| 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)                                                                         |                |                   |
| AV3 (DVD)                                                                         |                |                   |
| CUSTOM                                                                            |                |                   |
| EXIT                                                                              |                |                   |
| DIP SWITCH INFO :                                                                 |                | FIRMWARE DATE :   |
|  |                | MAIN : 2018-03-02 |
|                                                                                   |                | SUB : 2018-03-02  |
|                                                                                   |                | TW23 : 2018-03-02 |

| R04-MIB2                                                                            |                        |                   |
|-------------------------------------------------------------------------------------|------------------------|-------------------|
| HDMI 1                                                                              | INPUT SOURCE           | DEFAULT           |
| 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             |
| AV3 (DVD)                                                                           | 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'.

## REAR VIEW INPUT - EXTERNAL CAMERA

Adjust the values of brightness and contrast

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

# Settings

| R04-MIB2                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------|
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                            |
| AV3 (DVD)                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |                                                            |
| CUSTOM                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                                                            |
| EXIT                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |                                                            |
| DIP SWITCH INFO :                                                                                                                                                                                                                                                                                                                                                                                                         |                        | FIRMWARE DATE :                                            |
|      |                        | MAIN : 2018-03-02<br>SUB : 2018-03-02<br>TW23 : 2018-03-02 |

| R04-MIB2                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------|
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                                            |
| AV3 (DVD)                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                                            |
| 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.

## 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.

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