

# Mercedes-Benz PIP Installation Guide Specification



Specification

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# Spec

## 1. Input Spec. (MULTI VIDEO INTERFACE)

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

## 2. Output Spec.

- 2 x CVBS Output (Video out for Installing Headrest Monitor)
- 1 x Audio L/R Output.
- 1 x LCD Output (LCD Operation)

## 3. Power Spec.

	Min	Typ	Max	Unit
Input Voltage	9	12	24	V
Operating current	470	360	160	mA
Sleep current	8	12	27	$\mu$ A

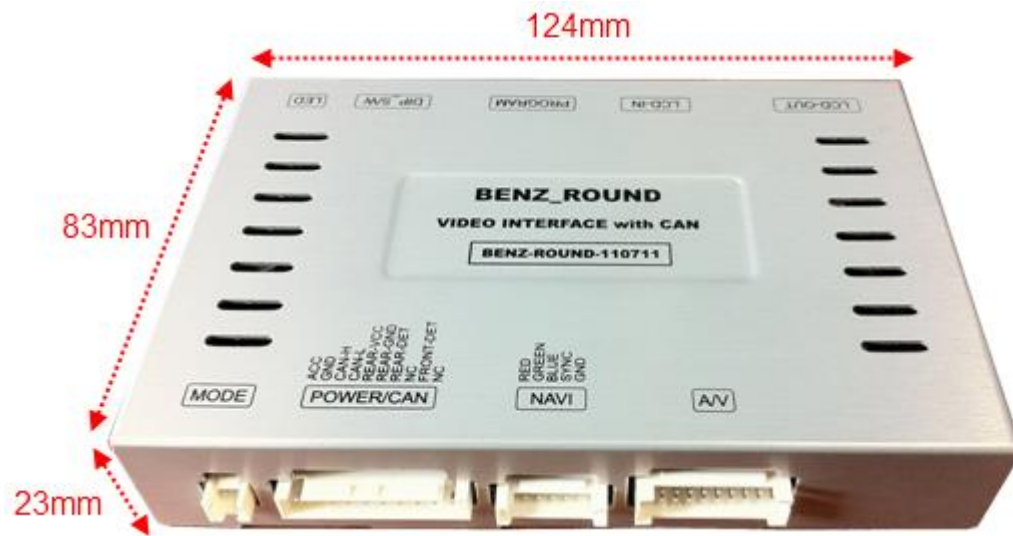
## 4. Switch Input mode

- Possible to select CAR model while switching mode by DIP S/W
- By button on the Commander in the car via CAN

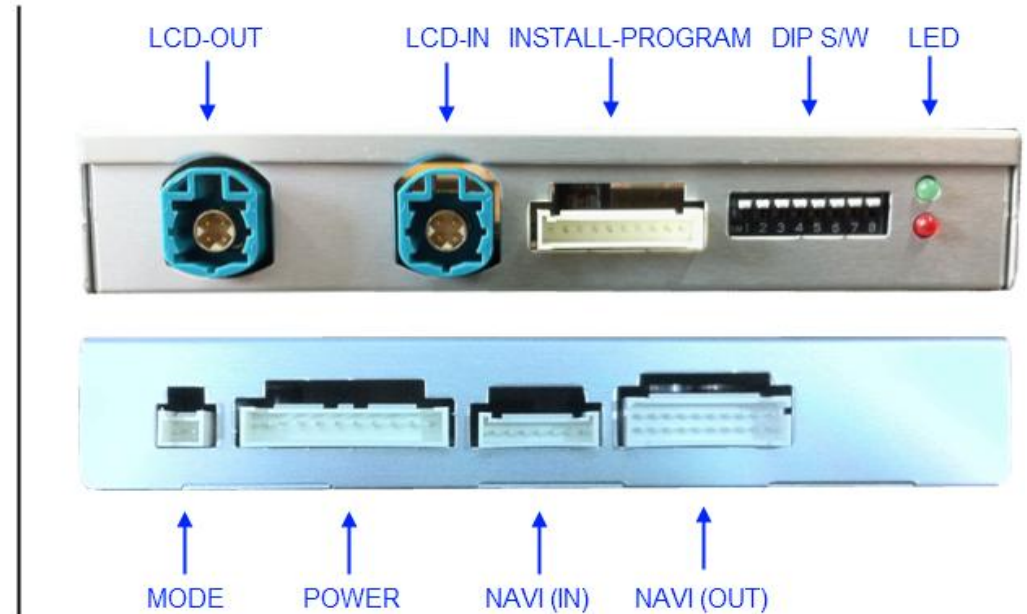
# About Interface

## - Dimension

124mm \* 83mm \* 23mm



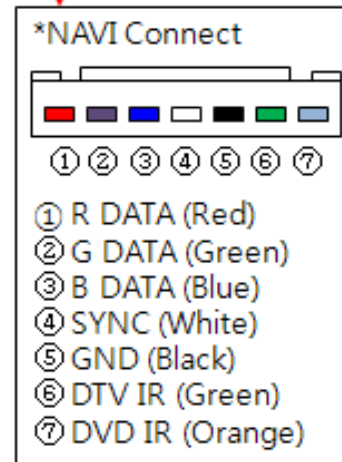
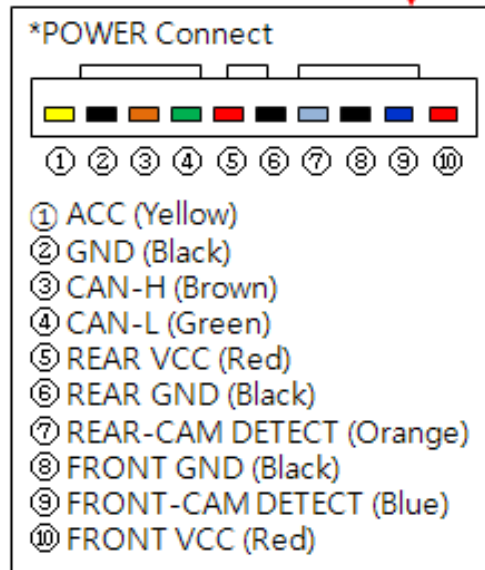
## - External Appearance



\* This can change under manufacturer's circumstance

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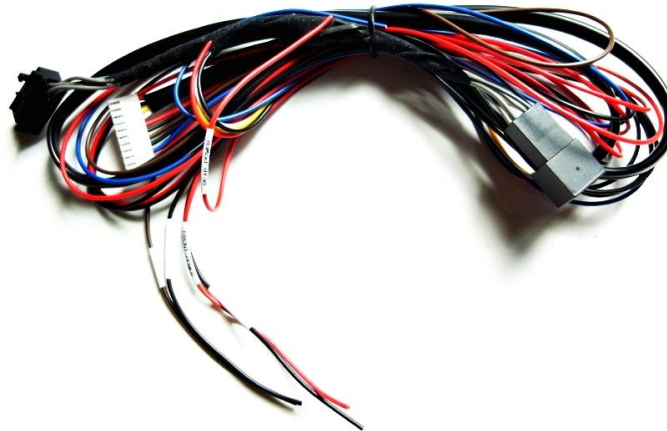
# Connector Pin Assignment



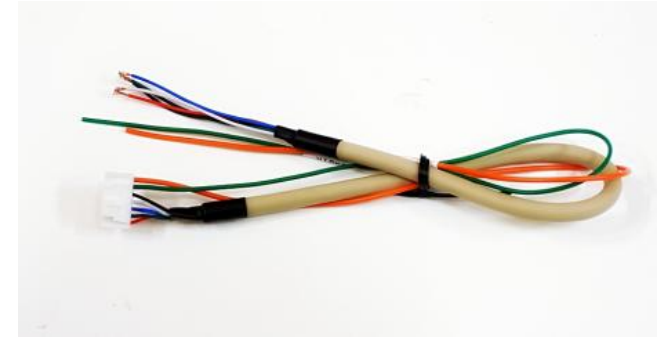
# Product Composition



Interface Board 1 EA



Power Cable 1 EA



RGB Navi Cable 1 EA



A/V Cable 1 EA



LVDS Cable 1 EA

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# DIP S/W Setting

※ ON : DOWN , OFF : UP

PIN	FUNCTION	DIP S/W Selection
1	NAVI INPUT MUTE	ON : Skipping NAVI Mode OFF : NAVI Display
2	AV1 MUTE	ON : Skipping AV1 OFF : AV1 Display
3	AV2 MUTE	ON : Skipping AV2 OFF : AV2 Display
4	NAVI Mode	ON : NAVI-AV Selection OFF : NAVI-RGB Selection
5	N.C	
6	N.C	
7	PIP Mode	ON : PIP Mode Disable OFF : PIP Mode Enable
8	CAR SEL	ON : C, E-Class 7" LCD Size OFF : C-Class 5.8" LCD Size

# I-Drive Control usage

## Control DTV by I-Drive



<On DTV Mode >

Push Long : SCAN

Push Short : Channel UP

Push Short : Channel DOWN

Push Long : Change the mode





# I-Drive Control usage

## Control DVD UI

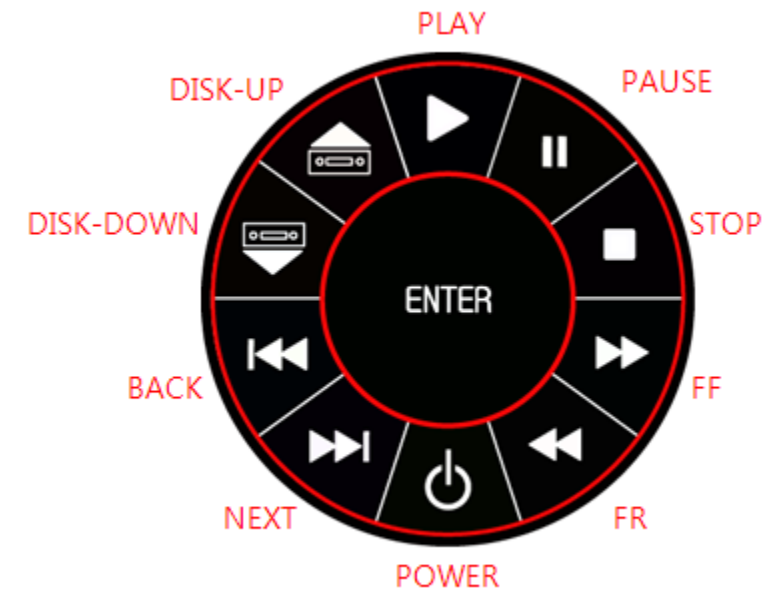


<On DVD Mode >

Icon image Move to right

Push Long : DVD UI ON, Push Short : Enter the Icon

Icon image Move to right



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# DVD UI

## Control DVD UI



# OSD Menu



UP, RIGHT

Press 6sec, **OSD ON**

Select

DOWN, LEFT

EXIT

► RGB Mode: Contrast, Brightness

► AV1, AV2, REAR Mode:

- Contrast, Brightness, Saturation, Hue, Sharpness
- Setting each AV1, AV2, Rear Mode separately

► RGB Mode

MENU	Image	NAVI
Image	Contrast	42
OSD	Brightness	50
Parking	Saturation	50
Config	Hue	50
Utility	Sharpness	25

► AV1 Mode

MENU	Config	AV-2
Image	DMB(DTV)	EliteXtrem. ELT-DVBT20
OSD	DVD	EliteXtrem. ELT-980KU S1
Parking	NAVI	LCKT.
Config	SafeMode	Off
Utility	Reset	Execute Cancel

► AV2 Mode

MENU	Config	AV-1
Image	DMB(DTV)	EliteXtrem. ELT-DVBT20
OSD	DVD	EliteXtrem. ELT-980KU S1
Parking	NAVI	LCKT.
Config	SafeMode	Off
Utility	Reset	Execute Cancel

► Rear Mode

MENU	Parking	REAR
Image	Display	On
OSD	Horizontal	50
Parking	Vertical	50
Config	TP	40
Utility	AutoPower	Off

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# OSD Menu

► OSD Setting – Config Mode

MENU	Config	NAVI
Config	NAVI-RGB	Default
Option	NAVI-AV	Default
Image	DVD	ELT-980XU Slim
Screen	DVB-T(DMB)	ELT-DVBT20
Parking	BlackBox	Default

- NAVI(GPS) - RGB : Model Select
  - ① Default
  - ② GI-4000
  - ③ GI-8000
  - ④ PANASONIC
  - ⑤ kd-900
  - ⑥ PURENAVI8
  - ⑦ SINGAPURA
- NAVI – AV : Model Select
  - ① Default
- DVD : Model Select
  - ① EliteXtrem.      ELT-980XU  
SLIM
  - ② SANYO
  - ③ LCKT
  - ④ NECVOX (DVA-3206)
  - ⑤ AMPIRE (DVX-101)

- DTB-T : Model Select
  - ① EliteXtrem. ELT-DVBT20
  - ② NETWORK. NET-770
  - ③ MEDIALIFE
  - ④ PANASONIC
  - ⑤ PIONEER
  - ⑥ GEX-700DV
  - ⑦ PORTUGAL
- BlackBox : Default
- RearCam : Default
- FrontCam : Default
- Reset :
  - ① Excute
  - ② Cancele

# OSD Menu

► **OSD Setting – Option Mode**

MENU	Option	NAVI
Config	RearCam-Type	ExtDevice
Option	RearCam-Power	Off
Image	FrontCam-Type	ExtDevice
Screen	FrontCam-Power	Off
Parking	Safe Mode	Off

- **Safe Mode** : Default
- **RearCam – RcvOpt**
  - ① On : Show Frontcam 25sec after rear mode.
  - ② Off: Default
- **Reset**
  - ① Excute
  - ② Cancele

- **RearCam – Type**
  - ① OEM: Original Rear camera
  - ② ExtDevice : Use aftermarket Rear camera
- **RearCam – Power**
  - ① ON : Rear camera get +12V consistently
  - ② AUTO: Rear camera get +12V when reverse gear on.
  - ③ OFF: Shut out the power supply.
- **FrontCam – Type**
  - ① OEM: Original Front camera
  - ② ExtDevice : Use aftermarket Front camera
- **FrontCam – Power**
  - ① ON : Front camera get +12V consistently
  - ② AUTO: Front camera get +12V when reverse gear on.
  - ③ OFF: Shut out the power supply.



# OSD Menu

## ► OSD Setting – Image Mode

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

- Brightness
- Contrast
- Saturation
- Hue
- Sharpness
- Color – RED
- Color – Green
- Color – Blue
- Reset

## ► OSD Setting – Screen Mode

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

- Horizontal
- Vertical
- Scaler X Up
- Scaler X Down
- Scaler Y Up
- Scaler Y Down

- ① Excute
- ② Cancele

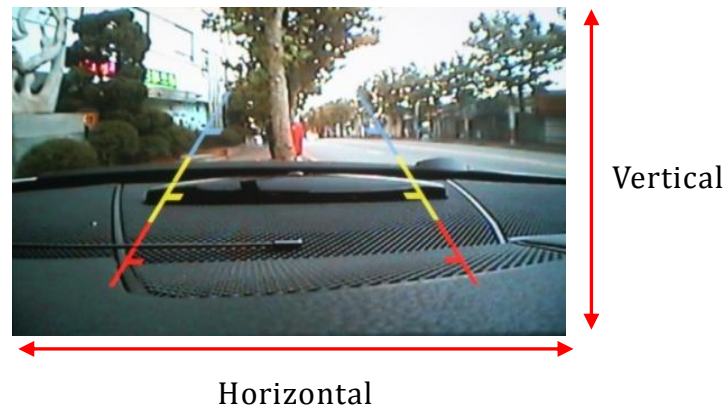
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# OSD Menu

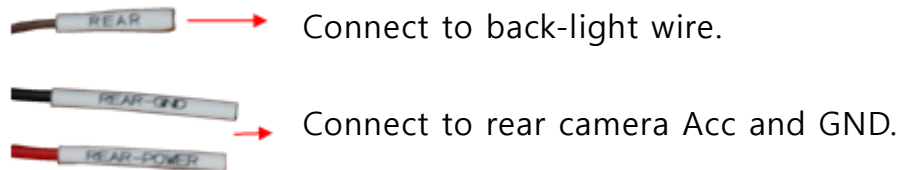
## ► OSD Setting – Parking Mode

MENU	Parking	REAR
Image	Display <input checked="" type="checkbox"/>	On Off
OSD	Horizontal <input type="checkbox"/>	<input type="range"/> 50
Parking	Vertical <input type="checkbox"/>	<input type="range"/> 50
Config	TP <input type="checkbox"/>	<input type="range"/> 40
Utility	AutoPower <input type="checkbox"/>	Off

- Display : Parking line display On/Off
- Horizontal : Parking line move Left/Right
- Vertical : Parking line move Up/Down
- TP : Parking line clarity
- AutoPower : Parking line ACC control



**On:** Rear camera get a power supply when reverse gear on.  
 But, Depend on camera Spec. sometimes noise image happen.  
**Off:** Rear camera get a power supply continuous.



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# OSD Menu

## ► OSD Setting - Utility Mode

MENU	Utility	NAVI
Image	Reset All	Execute Cancel
OSD	Info	System Version = 01.01
Parking		
Config		
Utility		



- Reset All : Initialization
- Info: Software version.

## FAQ

1. If Interface has a problem, Please check LED.
  - After acc turn on, If Interface does not have a problem; **GREEN** LED is blinking every 1 sec.
  - **RED** LED is turn on (not blinking), Interface has a problem.
  - **RED** LED is not turning on, there is no input device.
  - **RED** LED and **GREEN** LED both are not turn on, check to power cable.

2. When monitor changed to Orange color.

- LVDS cable contact problem or cable problem.

3. When DTV or DVD mode, cannot control with I-Drive

- Check IR cable, and DTV or DVD device's ground cable and Interface ground cable join together with using extra cable.
- Check device in OSD menu