### BENTLEY 2012-TD (2011 - 2017 Continental / GT) (VIDEO Interface)



MODEL	BT-2012-180605
DATE	2018.09.12



### Main 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 source)
  - 1 x Digital RGB Input (Navigation System source)
  - 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 Vertual Analog Touch (Navigation System source)
  - 1 x Uart Digital Touch (Navigation System source)
  - 1 x LCD Output (LCD Operation)
- 3. Power Spec.
  - Input Power : 8VDC ~ 24VDC
  - Consumption Power : 12Watt, Max
- 4. Switch Input mode
  - Possible to select CAR model while switching mode by DIP S/W



### **External Appearance**







### **Connector Pin Assignment**





## **Product Composition**



## 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	N.C	
5	N.C	
6		
7	CAR type SEL	Right Picture
8		

\* DIP S/W Example



BENTLEY 2011~2017



### Mode Change

#### **OEM BUTTON CONTROL**







### Touch Control

**Touch control - Calibration** 



Press and hold for more than 11 seconds on NAVI, DVB-T, DVD screen. (Note that it only works the first time after switching screens)

#### OR

MENU	Calibrat	Calibration	
OSD IR-Ctrl	Factory Reset Calibration	Execute Execute	Cancel Cancel
Utility	Version	FDSHOOKR	X-180112

OSD menu -> Utility -> Calibration



+ Touch according to the shape coordinates.



### Touch Control

#### **DVB-T/DVD** Control





#### **OSD Control Board**



MENU	When there is no OSD screen, pressing OSD ON When OSD screen is displayed, press OSD EXITT	
SEL	Item Selection, Value Selection	
UP	Item up Increase selected value	
DOWN	Item down Decrease selected value	

#### Mode State

MENU	Option		NAVI
Config	RearCam-Type	ExtDevice	
Option	RearCam-Power	Auto	
Image	RearCam-Det	GEAR	
Screen	AV Mode	Off	
Parking	FrontCam-Type	ExtDevice	
First Menu	Second Menu	Third M	enu



#### OSD - Config Menu

First Menu	Second Menu	Third Menu	Description
	NAVI-RGB	DIGTAL-INAVI :	Setting the Connected NAVI Model
Config	DVB-T(DMB)	ELT_DVBT20 :	Setting the Connected DVB-T Model
	DVD	ELT_980XU Slim :	Setting the Connected DVD Model
	Reset	Execute	Reset to default value of Config menu

#### global

MENU	NAVI-RGB NAVI	
Config	NAVI-RGB	GI 5000_WVGA
Option	Reset	Execute Cancel
Image		
Screen		
Parking		



First Menu	Second Menu	Third Menu	Description
		OEM	Original Camera
	RearCam-Type	ExtDevice	Equipped with external camera
		ON	+ 12V continuous supply
	RearCam-Power	AUTO	+ 12V supply only in Rear camera mode
		OFF	+ 12V off
	RearCam-Det	GEAR	Detected by CAN
Ontion		WIRE	Detected by Rear-Det Wire
Option	FrontCam-Type	OEM	Original Camera
		ExtDevice	Equipped with external camera
	FrontCam-Power	ON	+ 12V continuous supply
		AUTO	+ 12V supply only in Front camera mode
		OFF	+ 12V off
	FrontCam Dat	CAN	Detected by CAN
	FrontCam-Det	WIRE	Detected by Front-Det Wire

MENU	RearCam-Type N.		AVI
Config	RearCam-Type	OEM	
Option	RearCam-Power	Auto	
Image	RearCam-Det	GEAR	
Screen	AV Mode	Off	
Parking	FrontCam-Type	ExtDevice	



First Menu	Second Menu	Third Menu	Description
	FrontCam-RcvOpt	ON	After RearCam shows FrontCam and returns to previous state
		OFF	Disable feature
Option AV OUT UI DVB-T	AV OUT	AV1	In the OEM, NAVI, AV1, FRONT, and REAR modes, the output of AV OUT is set to AV1.
		AV2	In the OEM, NAVI, AV2, FRONT, and REAR modes, the output of AV OUT is set to AV2.
		USER	In the OEM, NAVI, FRONT, and REAR modes, output the output of AV OUT to the final screen.
	ULDVB-T (DMB)	ON	DVB-T device control UI output function
		OFF	Disable feature

MENU	FrontCam-Power NA		NAVI
Config	FrontCam-Power	Auto	
Option	FrontCam-Det	ExtWire	
Image	FrontCam-RcvOpt		Os
Screen	Steering Wheel	Voice	
Parking	Reset	Execute	Cancel



First Menu	Second Menu	Third Menu	Description
	FrontCam-RcvOpt	ON	After RearCam shows FrontCam and returns to previous state
		OFF	Disable feature
Option AV OUT UI DVB-T	AV OUT	AV1	In the OEM, NAVI, AV1, FRONT, and REAR modes, the output of AV OUT is set to AV1.
		AV2	In the OEM, NAVI, AV2, FRONT, and REAR modes, the output of AV OUT is set to AV2.
		USER	In the OEM, NAVI, FRONT, and REAR modes, output the output of AV OUT to the final screen.
	ui dvb-t (dmb)	ON	DVB-T device control UI output function
		OFF	Disable feature

MENU	FrontCam-Power		NAVI
Config	FrontCam-Power	Auto	
Option	FrontCam-Det	ExtWire	
Image	FrontCam-RcvOpt		Os
Screen	Steering Wheel	Voice	
Parking	Reset	Execute	Cancel



First Menu	Second Menu	Third Menu	Description
UI DVD		ON	DVD device control UI output function
		OFF	Disable feature
Option	Option NAVI COM	HMS FINE :	Set up manufacturer of woodworking device for UART Touch use
		OFF	Disable feature
	Reset	Execute	Option Menu all Reset

MENU	FrontCam-Power NA		
Config	FrontCam-Power	Auto	-
Option	FrontCam-Det	ExtWire	
Image	FrontCam-RcvOpt		Os
Screen	Steering Wheel	Voice	
Parking	Reset	Execute	Cancel



#### OSD Option -> FrontCam-RcvOpt

#### Front Camera Auto Mode

0 second = FrontCam-RcvOpt menu OFF

1~30 second = FrontCam-RcvOpt menu ON & time control

MENU	FrontCam-Rev	Opt NAVI	MENU	FrontCam-Rev	70pt	NAVI
Config	FrontCam-Power	Auto	Config	FrontCam-Power	Auto	
Option	FrontCam-Det	ExtWire	Option	FrontCam-Det	ExtWire	
Image	FrontCam-RcvOpt	Os	Image	FrontCam-RcvOpt		30s
Screen	Steering Wheel	Voice	Screen	Steering Wheel	Veice	
Parking	Reset	Execute Cancel	Parking	Reset	Execute	Cancel





#### OSD Image

NAVI-RGB menu

First Menu	Second Menu	Third Menu	Action
	Brightness		Adjust the value of brightness
	Contrast		Adjust the value of contrast
Imaga	Color-RED		Adjust the value of RED
image	Color-GREEN		Adjust the value of GREEN
	Color-BLUE		Adjust the value of BLUE
	Reset	Execute	Image Menu all Reset

#### DVD,DVB-T(DMB),NAVI-AV,REAR,FRONT menu

First Menu	Second Menu	Third Menu	Action
	Brightness		Adjust the value of brightness
	Contrast		Adjust the value of contrast
Imaga	Saturation		Adjust the value of Saturation
image	Hue		Adjust the value of Hue
	Sharpness		Adjust the value of Sharpness
	Reset	Execute	Image Menu all Reset



<< Brightness >>



<< Contrast >>



<< Saturation >>



#### OSD – Screen Menu

First Menu	Second Menu	Third Menu	Description
	Horizontal		Output screen horizontal movement
	Vertical		Output screen vertical movement
	Scale X Up		Reduce / increase output
Screen	Scale X Down		screen width
	Scale Y Up		Reduce / Increase Output
	Scale Y Down		Screen Height
	Reset		Screen menu all reset

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



#### **OSD** – Parking Menu

First Menu	Second Menu	Third Menu	Description	
Darking	Warnings Lang		Set warning text language	
Parking	Reset		Parking menu all reset	

MENU	OPS Displa	ay REAR
Config	OPS Display	Off
Option	Line Display	Off
Image	Warnings Lang	English
Screen	Horizontal	50
Parking	Vertical	60



#### 1. Monitor dismantle







#### 2. Monitor dismantle





3. LVDS FPC cable connection



Work to make black visible.



4. Touch FPC cable connection





5. Touch FPC cable connection





#### 6. LVDS FPC cable connection





7. Touch FPC cable connection



2 Work to make black visible



#### 8. Mode cable connection



Connect the provided mode cable.

Connect the OEM cable.



#### 9. OEM cable connection







#### 10. JIG Board connection





## Q & A

- 1. If Interface has a problem, Please check LED.
  - ACC on (12v), 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 turn off every 1 sec, there is no input.
  - RED LED and GREEN LED both are not turn on, check the CAN or ACC connection.
- 2. Q : LCD screen black
  - A : LVDS Cable problem or, connection 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

