Volkswagen Touareg RCD550

- MODEL : PCM-31-171026

- DATE : 2021.08.23



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1. Main Spec.

- 1. Input Spec. (MULTI VIDEO INTERFACE)
 - 1 x Digital RGB Input (Navigation System source)
 - 1 x Analog RGB Input (Navigation System output)
 - 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
 - 1 x CVBS(Front CAMERA) Input. (Front camera source)
- 2. Output Spec.
 - 1 x LCD Output (LCD Operation)
 - 1 x Vertual Analog Touch (Navigation System source)
 - 1 x Uart Digital Touch (Navigation System source
- 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
 - By button on the Commander in the car via CAN



2. Block Diagram



3. Dimension





* This can change under manufacturer's circumstance



4. External Appearance





4. External Appearance





5. Connector Pin Assignment





6. Product Composition



Power Cable 1 EA



Mode S/W 1 EA



OSD Board 1 EA





SUB Board 1 EA



LVDS Cable(800mm) 1 EA



Touch convertor Cable(KD-900) 1 EA

200	9687	WM	v 16	E204771		SUL	KM-PI	1-1	IC 30A AA	5896 80	MMY	16	E204771	SIT
	PEND	LR.	KORA	L-WA	900	5896	NIWA	16	кова	1-444	800	9682	n	
	-	76	ARO.X	1-444	90C	5896	MWA	15	кова	1-444	800	5896	n	
	-	10	KORA	I-MA	300	5839	NIWA	11	AROX	1-111	80C	5896	m	
	-	116	KORA	1-111	300	5988	WWY	67	KORA	1-444	30S	5888	me	
	-	10	KORA	1-MA-1	300	5896	MWA	10	KORA	L-MA	300	5896	W.	
	-	11	AROX	1MM	300	5896	MWA	10	KORA	1-MA	300	9682	w	
	2450	67	AROX	1-M-1	30C	5886	NWA	16	AROX	1-111	308	3886	18	

FPC Cable 2 EA

6. Product Composition

* CarPlay Set Sales(option) – KPLAY



Interface 1 EA



Power Cable 1 EA



AUX Cable 1 EA





Antenna 2 EA



Microphone 1 EA



6. Product Composition

* CarPlay Set Sales(option) – NV17







Power Cable 1 EA



AUX Cable 1 EA



HDMI Cable 1 EA



Microphone 1 EA



7. DIP S/W Setting

* ON : DOWN , OFF : UP

PIN	FUNCTION	DIP S/W Selection
1	NAVI	ON : Not Used OFF : Used
2	DVB-T(AV1)	ON : Not Used OFF : Used
3	DVD(AV2)	ON : Not Used OFF : Used
4	N.C	
5	N.C	
6		right refer to picture
7	CAR Type	nght leler to picture
8	N.C	

* DIP S/W Example



Volkswagen Touareg 6.5" RCD550



8. Mode Change

Mode Change



mode change : 1's press



MENU	SteeringWhee	1Btn NAVI		
Config	FrontCam-Type	ExtDevice		
Option	FrontCam-Power	Auto		
Image	FrontCam-Det	ExtWire		
Screen	FrontCam-RcvOpt	0s		
Parking	SteeringWheelBtn	On Off		



8. Mode Change

CarPlay control





9. Touch Control

Touch control - Calibration



+ Touch according to the shape coordinates.



9. Touch Control

DVB-T/DVD Control



MENU	UI DVB-T	(DMB)	NAVI _	MENU	UI D	VD NAVI
Config	Mode Button	NAV		Config	Mode Button	NAV
Option	UI DVB-T(DMB)	On	Off	Option	UI DVB-T(DMB)	On
Image	UI DVD	On		Image	UI DVD	On Off
Screen	ScrChg-Btn	On		Screen	ScrChg-Btn	On
Parking	Reset	Execute	Cancel	Parking	Reset	Execute Cancel



OSD Control Board



MENU	Press to display when there is no OSD screen. When OSD screen is on, press it to EXIT or OFF.
SEL	Item Selection, Value Selection
UP	Item up Increase selected value
DOWN	Item down Decrease selected value

Mode State

MENU	Option	Option		
Config	NAVI COM	KPLAY		
Option	RearCam-Type	ExtDevice		
Image	mage RearCam-Power			
Screen	RearCam-Det	CAN		
Parking	FrontCam-Type	ExtDevice		

First Menu

Second Menu

Third Menu



OSD Config

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

MENU	Config	NAVI
Config	NAVI-RGB	DGT-KPLAY-V-1280
Option	DVB-T(DMB)	ELT_DVBT20
Image	DVD	ELT_980XU Slim
Screen	RearCam	AVM
Parking	FrontCam	Default



OSD - Option Menu

First Menu	Second Menu	Third Menu	Description
	NAVI COM	HMS FINE :	Set up manufacturer of woodworking device for UART Touch use
		OFF	Do not use features.
	BoarCam Tuno	OEM	Original Camera
	RealCalli-Type	ExtDevice	Equipped with external camera
		ON	+ 12V continuous supply
	RearCam-Power	AUTO	+ 12V supply only in Rear camera mode
		OFF	+ 12V off
	Deer Cam Det	GEAR	Detected by CAN
	RearCam-Det	WIRE	Detected by Rear-Det Wire
Option	AV Mode	ON	Use "REAR" video input port as VIDOE input.
		OFF	Do not use features.
	FrentCare Turne	OEM	Original Camera
	FrontCam-Type	ExtDevice	Equipped with external camera
		ON	+ 12V continuous supply
	FrontCam-Power	AUTO	+ 12V supply only in Front camera mode
		OFF	+ 12V off
	FrontCom Dot	GEAR	Detected by CAN
	FrontCam-Det	WIRE	Detected by Front-Det Wire
	FrontCam-RcvOpt	ON	After RearCam shows FrontCam and returns to previous state
		OFF	Disable feature



OSD - Option Menu

First Menu	Second Menu	Third Menu	Description
	StragingWhaolBtn	ON	Use the Streeing Wheel Button.
	Streeningwheelbth	OFF	Disable feature
	ui dvb-t (dmb)	ON	DVB-T device control UI output function
		OFF	Disable feature
Option	UI DVD	ON	DVD device control UI output function
		OFF	Disable feature
	NAVI COM	HMS FINE :	Set up manufacturer of woodworking device for UART Touch use
		OFF	Do not use features.
	Reset	Execute	Option Menu all Reset



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-D	et NAVI		MENU←	FrontCa	n-Det NAVI
Config←	FrontCam-Power←	Auto⊲		Config↩	FrontCam-Power⇔	Auto⇔
Option ←	FrontCam-Det←	ExtDevice←		Option ←	FrontCam-Det←	ExtDevice←
Image←	<u>FrontCam-RcvOpt</u> ←	□ 0s<²		Image←	<u>FrontCam-RcvOpt</u> ←	30s↩
Screen←	UI DVB-T(DMB)⇔	On↩		Screen←	UI DVB-T(DMB)⊲	On↩⊐
Parking⇔	UI DVD←	On←□		Parking⇔	UI DVD←⊐	On⊲
OE NA AV1(D AV2(E	M VI VB-T) DVD)	REAR	Sel	FRONT ect time of c	lisplay	OEM NAVI AV1(DVB-T) AV2(DVD)



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	Excute	Option 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
	Saturation		Adjust the value of Saturation
image	Hue		Adjust the value of Hue
	Sharpness		Adjust the value of Sharpness
	Reset	Excute	Option 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	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	Config	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
		ON	Show OPS
	OPS Display	OFF	Do not show OPS
	Line Dicelay	ON	Show parking line
	Line Display	OFF	Do not show parking lines
Parking	Warnings Lang		Set warning text language
	Horizontal		Moving a parking line horizontally
	Vertical		Moving a parking line vertically
	Transparency		Parking line transparency
	Reset		Parking menu all reset

MENU	Line Displ	ay REAR
Config	OPS Display	On
Option	Line Display	On Off
Image	Warnings Lang	English
Screen	Horizontal	0
Parking	Vertical	0



OSD Parking – OPS Display On / Off

MENU	OPS Display REAR		
Config	OPS Display	On	Off
Option	Line Display	On	
Image	Warnings Lang	English	
Screen	Horizontal	o	(
Parking	Vertical	o	l.



OPS ON Screen

MENU	OPS Displ	ay	REAR
Config	OPS Display	On	Off
Option	Line Display	On	
Image	Warnings Lang	English	
Screen	Horizontal		0
Parking	Vertical		0



OSD Parking – Guide line On / Off

MENU	Line Displ	ay	REAR
Config	OPS Display	On	
Option	Line Display	On	Off
Image	Warnings Lang	English	
Screen	Horizontal		0
Parking	Vertical		0



MENU Line Display Config OPS Display 0n Option Line Display On Off Warnings Lang Image English Horizontal Screen 0 Vertical Parking 0





OSD Parking – Change warning language

MENU←	Line Displ	ay REAR _
Config⇔	OPS Display⊲	English⇔
Option⇔	Line Display↩	中文↩
Image↩	Warnings Lang⊂	한국어↩
Screen⇔	Horizontal↩	日本↩
Parking₽	Vertical↩	Россия↩





OSD Parking – Adjust position of parking guide line

MENU	Parking	REAR _
Config	OPS Display	On
Option	Line Display	Off
Image	Warnings Lang	English
Screen	Horizontal	0
Parking	Vertical	0

Possible to adjust the position of parking guide line by Keypad in Horizontal / Vertical menu % Pressing this Horizontal / Vertical menu, The OSD screen automatically disappears. Please adjust from the parking line Screen.



Press "UP" button





OSD – OSD Menu

First Menu	Second Menu	Third Menu	Description
	Horizontal	value	OSD Menu Horizontal Shift
	Vertical	value	OSD menu vertical Shift
	Display Time	value	OSD Menu Display Time (in seconds)
030	Transparency	value	OSD menu transparency
	Language		OSD menu display language
	Reset	Execute	Initialize OSD settings

MENU	Horizontal		NAVI _
OSD	Horizontal		50
IR-Ctrl	Vertical		50
Utility	Display Time		10s
	Transparency		30
	Language	English	

MENU	Reset		NAVI
OSD	Reset	Execute	Cancel
IR-Ctrl			
Utility			



OSD – IR learning function

* In order to work with the IR learning function, a separate IR cable is required.

- In DVB-T / DVD menu, select User in Sys (OSD list) or User (learned contents).
 Select Learn from the OSD menu.
- 3. Before using IR learning function, select All-Clear to delete existing stored data.

4. Press the remote control button to be used in each ICON once in New Code, press once again in Cfm Code to confirm it is the same and save it.



MENU	DVB-T(DMB)		NAVI	
OSD	DVB-T(DMB)	Sel	Learn	Cancle
IR-Ctr1	DVD	Sys		
Utility	DVR	Sys		

DVB-T(DMB)

All-Clear

POWER

SCAN CH+

	CH-			
	+			
MENU	DVB-T	(DMB)		NAVI _
OSD	New Code:			
IR-Ctrl				
Utility				
	Save	Clr	Ca	ncle



MENU

OSD

IR-Ctrl

Utility

OSD – Utility Menu

First Menu	Second Menu	Third Menu	Description
	Factory Reset	Execute	Initialize all settings
Utility	Calibration	Execute	Calibration mode Execute
	Version		FDSYOOKRX-180209 (Check for future upgrades)

Last Source : FDSYOOKRX-180209



MENU	Utility		NAVI _
OSD	Factory Reset	Execute	Cancel
IR-Ctrl	Calibration	Execute	Cancel
Utility	Version	BEW3100AUX	-210518



1. Installation Navigation Connection



MENU	NAVI-RGB	NAVI _	MENU←	FrontCam-T	'ype NAVI
Config	NAVI-RGB	DGT-NV17-800	Config⇔	NAVI COM←	OFF←
Option	DVB-T(DMB)	DGT-NV17-V-800	Option ←	RearCam-Type⇔	GU↩
Image	DVD	DGT-KPLAY-800	Image⇔	<u>RearCam</u> -Power⇔	KPLAY←
Screen	RearCam	DGT-KPLAY-1280	Screen←	<u>RearCam</u> -Det←	NV17←
Parking	FrontCam	DGT-KPLAY-V-1280	Parking⇔	FrontCam-Type<⊃	NVC←□

• Select the navigation you want to use from the above items.



2. Installation DVB-T Remote Control Connection



MENU	UI DVB-T(DMB)	NAVI _	MENU	DVB-T(DMB) NAVI _
Config	FrontCam-Power	Auto		Config	NAVI-RGB	ELT_DVBT20
Option	FrontCam-Det	ExtWire		Option	DVB-T(DMB)	NET-770
Image	FrontCam-RcvOpt	0s		Image	DVD	MediaLife
Screen	SteeringWheelBtn	Off		Screen	RearCam	Panasonic
Parking	UI DVB-T(DMB)	On	Off	Parking	FrontCam	Pioneer

• Select the DVB-T you want to use from the above items.



3. Installation DVD Remote Control Connection



MENU←	Opt ion		NAVI _	MENU	DVD	NAVI _
Config⇔	UI DVD	On←⊐	0f f↩	Config	NAVI-RGB	ELT-980XU Slim
Option←	<mark>ScrChg-Climate</mark> ⊲	0ff←		Option	DVB-T(DMB)	LCKT
Image←	Reset←	Execute⇔	Cancel	Image	DVD	Sanyo
Screen←	с	с)		Screen	RearCam	NECVOX DVA-3206
Parking⇔	с	⊂		Parking	FrontCam	AMPIRE DVX-101

• Select the DVD you want to use from the above items.



4. Installation External Front Camera Connection



MENU	FrontCa	m NAVI _	MENU	FrontCam-Rcv	Opt NAVI _
Config	NAVI-RGB	AVM	Config	FrontCam-Power	Auto
Option	DVB-T(DMB)	DIGITAL-NVC	Option	FrontCam-Det	ExtWire
Image	DVD	Default	Image	FrontCam-RcvOpt	0s
Screen	RearCam		Screen	SteeringWheelBtn	Off
Parking	FrontCam		Parking	UI DVB-T(DMB)	On

• Refer to page. 10. OSD (On Screen Display) Control -> OSD option -> FrontCam-RcvOpt.



5. Installation External Reverse(Rear) Camera Connection



MENU	RearCa	m REAR
Config	NAVI-RGB	AVM
Option	DVB-T(DMB)	DIGITAL-NVC
Image	DVD	Default
Screen	RearCam	
Parking	FrontCam	

• Select the RearCam you want to use from the above items.



6. Installation CAN Connection





7. Installation CarPlay - KPLAY

* When installing CarPlay, set it to OSD MENU-OPTION-NAV COM-KPLAY.





8. Installation CarPlay – NV17





9. Installation CarPlay – APPPLAY



Screen

MENU	NAVI-RGB NAVI_		MENU	NAVI CO	M NAVI
Config	NAVI-RGB	DGT_CARPLAY	Config	NAVI COM	FINE
Option	DVB-T(DMB)	DGT-ROIK10	Option	RearCam-Type	NVC
Image	DVD	MST3000-WVGA	Image	RearCam-Power	KD900
Screen	RearCam	CREATOR-WVGA	Screen	RearCam-Det	CNPLAY
Parking	FrontCam	KD900-WQVGA	Parking	AV Mode	KD900

• Select the navigation you want to use from the above items.



10. Installation





10. Installation



10. Installation







12. Q & A

- 1. Check the LED status first when interface failure..
- If there is no abnormality after the power is applied, the green LED flashes in units of 1 second.
- If the red LED flashes for 1 second, there is no.
- If the red LED is on continuously, the interface itself is bad.
- If nothing turns on, check that the power and CAN signals are properly connected
- 2. Q : When the screen turns black
 - A : LVDS cable itself is bad or bad contact.
- 3. If you find any symptoms with these symptoms, please contact your distributor

