# **Instruction Manual**

All in One Type Android System

## A10-NTG6



Model Name	A-LINK2-NTG6
Latest Firmware Date	2020 - 05 - 27
Manual Version	Rev. 1.4
Language	English





## **Car Compatibility Chart**

## **Comand NTG 5.5**

Car Models	Specific Models	Production Year	Specific Models	Screen Size
	W205	2019	- Mercedes Comand APS NTG 5.5	7 inch
C-CLA33	VV205	2018 -	* facelift	10.25 inch
E-CLASS	W213	2016 -	- Mercedes Comand APS NTG 5.5	12.3 inch
CLS-CLASS	C257	2018 -	- Mercedes Comand APS NTG 5.5	12.3 inch
S-CLASS (facelift)	W222	2018 -	- Mercedes Comand APS NTG 5.5	12.3 inch
G-CLASS	W463	2018 -	- Mercedes Comand APS NTG 5.5	12.3 inch
Q				



Mercedes NTG5.5 <10.2 inch>



2019 A-Class







Mercedes NTG6 MB-UX <10.25 inch>

2019 CLS-Class



2019 G-Class



2019 Sprinter

## Comand NTG 6 < MB-UX>

Car Models	Specific Models	Production Year	Specific Models	Screen Size
A-Class W177 V177	W177	2018 -	- Mercedes Comand APS MB-UX	7 inch
	V177			10.25 inch
Sprinter	VC20	204.9	- Mercedes Comand APS MB-UX	7 inch
	V330	2010 -		10.25 inch

\*facelift



2019 S-Class \*facelift





## Components







Main Power Cable



LVDS Cable



**KEYPAD** 



MicroPhone

AV Cable



**IR Sensor** 



**External GPS** 

BT / WIFI Antenna

**External Speaker** 

## **Optional Parts** (sold separately at the indiwork)

Only NTG5.5

**Quadlock Main Harness** 





DVBT IN VIDEO	REAR IN FRONT IN DVD IN AUDIO L DVD IN AUDIO R DVBT IN AUDIO R DVBT IN AUDIO R					
AV	/ CABLE					
1	DVBT VIDEO INPUT					
2	DVBT AUDIO R					
3	DVBT AUDIO L					
4	DVD VIDEO INPUT					
5	DVD AUDIO R					
6	DVD AUDIO L					
7	FRONT-CAM VIDEO INPUT					
8	RV-CAM VIDEO INPUT					
9	GND_DVBT VIDEO					
10	GND_DVBT AUDIO R					
11	GND_DVBT AUDIO L					
12	GND_DVD VIDEO					
13	GND_DVD AUDIO R					
14	GND DVD AUDIO L					
15	GND FRONT-CAM VIDEO					
16	GND RV-CAM VIDEO					
	DVBT IN VIDEO           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16	NUMBER       DV       DV       DV       DV       FRONT         NUMBER       DV       DV       DV       DV       DV         NUMBER       DV       DV       DV       DV       DV         NUMER       DV       DV       DV       DV       DV       DV         NUMER       DV       DV       DV       DV       DV       DV       DV         NUMER       DV       DV       DV       DV       DV       DV       DV       DV         S       DVD       DV				

1 _ [] 12 _ []		
AUX OUT L	IR IN UART CAP-TOUCH	

AV	CABLE		
1	EXTERNAL_SPEAKER +	12	GND (EXTERNAL_SPEAKER)
2	AUX AUDIO L	13	GND (AUX AUDIO L)
3	AUX AUDIO R	14	GND (AUX AUDIO R)
4	MIC +	15	GND (MIC)
5	CAPACITIVE_SCL	16	CAPACITIVE_GND
6	CAPACITIVE_SDA	17	CAPACITIVE_VDD
7	CAPACITIVE_INT	18	CAPACITIVE_RST
8	UART_RX	19	UART_GND
9	UART_TX	20	IR_SIGNAL
10	DVB-T_IR	21	IR_GND
11	DVD_IR	22	IR_POWER

## Full Installation Diagram <NTG6 MB-UX>





## Full Installation Diagram <NTG5.5>







## HDMI,NAVI,DVB-T,DVD, External Rear Camera & AV1 (FRONT CAMERA) Script

## NTG6 "7inch" OEM Screen Type



**% It is the fixed. Can not change screen from left to right** 

## NTG6 "10.25inch" OEM Screen Type







## **DIP Switch Settings**

AV3(DVD) Mode

5

6

7

8 9 10

01	N ON 1 2 3 4 5 6 7 8 9 10	ON : ↓ 🚺 OFF : 🛉 🚮	
PIN	ON (▼)	OFF(▲)	No
1	HDMI Mode	Skip HDMI Mode	S
2	External Rear View Camera	Original Rear View Mode (OEM CAMERA)	OFF
3	External Front View Camera(AV1 Mode)	Skip External Front View Camera(AV1 Mode)	
4	AV2(DVBT) Mode	Skip AV2(DVBT) Mode	

Select car model

Skip AV2(DVD) Mode

No.7	No.8	No.9	No.10	Car Model	Code Name	Head Unit	Screen Size	
				A-Class	W177 V177	NTOG	40.25 in ch	
				GLC-Class *facelift	X253	NIGO	10.25 Inch	
OFF(▲)	OFF(▲)	ON (▼)	OFF(▲)	A-Class	W177 V177	NTG6	7 inch	
24 <sup>5</sup> 408				C-Class *facelift	W205	NTG6	40.25 in ch	
⊃°.	×			Sprinter	VS30	NTG6	10.25 Inch	
OFF(▲)	OFF(▲)	OFF(▲)	ON (▼)	E-Class	<sup>ິ</sup> W213	NTG5.5		
Charter and	, °				GLE-Class	V176	NTG6	12.3 inch
				GLS-Class	X176	NTG6		
OFF(▲)	OFF(▲)	ON (▼)	ON (▼)	C-Class *facelift	W205	NTG6	7 inch	



## Activation by original buttons <NTG6>



**Touchpad and Buttons** 



**Steering Wheel Buttons** 

Button	Function	Operation	Remarks
1.0	Changing	Press the button 2 seconds	Order : HDMI $\rightarrow$ NAVI $\rightarrow$ DVB-T $\rightarrow$ DVD $\rightarrow$ OEM
NAVI MAP	Modes	Press the button short time	Return to the OEM mode in any modes.
2 Back Changing Modes (Front Cam)	Press the button 2 seconds	Order : AV1 (Front View Camera)	
	(Front Cam)	Press the button short time	Order : AV1 $\rightarrow$ Previous screen
3	Changing	Press the button 1 seconds	Order : HDMI → NAVI → DVB-T → DVD → OEM
Hang up	(Front Cam)	Press the button short time	Return to the OEM mode in any modes.
4 CAR	Changing Modes	Press the button 1 seconds	Return to the OEM mode in any modes.

Button	Function	Operation	Remarks
5	Next,Previous track	Press the button short time	You can control DVB-T and DVD after connection and setting



## Activation by original buttons <NTG6>







Select, Enter Touch two times



## Documents,Websites

Slide two fingers Up or Down the touchpad



### Swipe to Navigate

Touch one time and sliding



## Activation by original buttons <NTG5.5>



Mercedes NTG5.5 Controller



Mercedes NTG5.5 Radio Buttons





W213 Steering Wheel Buttons

Button	Function	Operation	Remarks
		Press the button 2 seconds	$Order: HDMI \to NAVI \to DVB\text{-}T \to DVD \to OEM$
	Changing Modes	Press the button short time	Return to the OEM mode in any modes.
	2	Press the button Long time 10 sec	Restart Main Body <interfac,android></interfac,android>
2	Changing	Press the button 2 seconds	Order : AV1 (Front View Camera)
	(Front Cam)	Press the button short time	Order : AV1 $\rightarrow$ Previous screen
4 Dial Up	Changing Modes	Press the button 1 seconds	Return to the OEM mode in any modes.

Button	Function	Operation	Remarks
<b>4</b> Dial Up	Next track	Press the button 1 seconds	You can control DVB-T and DVD
5 Dial Down	Previous track	Press the button 1 seconds	after connection and setting

## Activation by original buttons <NTG5.5>



Button	Operation	Function	
1 Back	Press the button shot time	Back to previous menu	
2 Home	Press the button shot time	Back to Home Main page	
3	Press the button shot time	Back to previous menu	
Back	Press the button 2 seconds	Google assistant "OK Google"	
4	Press the button shot time	Task-Manager	
Next Track	Press the button 2 seconds	Picture In Picture "PIP"	
5 Home	Press the button shot time	Back to Home Main page	
Dial	Turn the dial Left, Right	Move Left,Right	
7 8 Dial	Move the dial Left or Right	Next or Previous page	
<b>(B)</b> (10)	Move the dial UP or Down	Move Up,Down	
Dial	Move the dial 2 seconds UP or Down	Zoom In, Zoom Out, (Should using in a GPS application)	
Drag	Drag the Area	Back to previous menu	5 P





Documents,Websites Scroll

Slide two fingers Up or Down the touchpad



### Swipe to Navigate

Touch one time and sliding





## **Android Firmware**



1. Download firmware in "indiwork" website http://indiwork.co.kr/a-link-firmware-update-international/

## 2. Copy the "system\_roik10"folder to the sd card root directory

\* USB format type = FAT32

		Recovery	Key	USB 2.0	
		****			40 x 4
rnational/					
			A CART		
<ul> <li>○ 〒 포·1 □□ □</li> <li>※ 경로 복사</li> <li>※ 경로 복사</li> <li>한 바로 가기 붙여넣기</li> <li>※ 잘라내기</li> <li>클립보드</li> </ul>	이동 복사 삭제 이름 세 위치 · 위치 · · 비꾸기 준더 구성 세	집 새 항목 • ▲ 백론 연결 · 로 만들기 열기 · · · · · · · · · · · · · · · · · · ·	<ul> <li>홍 공유 보기</li> <li>○ 이에 복사 분여당기</li> <li>▲ 잘라내기</li> <li>금입보드</li> </ul>	날이딧기 이라 또사 위치····································	1월 세 상목 · 1월 편은 연광 · 1월 편은 연광 · 1월 연광 · · · · · · · · · · · · · · · · · ·
↑ 😞 > 내 PC > USB 드라이브 (P:)			✓ ↑ → 내 PC → USB 드라이브 usiness Trip. Lexus - Aug 2017	(P:) → system_roik10 >	수전한 날파
Drive	system_roik10	구정한 글써 유명 2017-10-26 오전 파일 폴더	Intitled Export 사진자료 ieDrive	system_roik10	2017-10-26 9
\$			PC I360 Drive 1운로드		
화면			5명상 주서 가탕 화면		
디스크 (C:) 디스크 (D:) 디스크 (E:)			∤진 ≩약 8월 디스크 (C:)		
			4		4

← Device Settings	RESET SETTINGS RESTART DEVICE
External Speaker	✓ Digital Out Settings
Softkey Enable	CVBS Settings
Softkey Position(Side/Bottom)	FMT Settings
Softkey Auto Hiding	Touch Calibration 5sec
Zoom Button Enable	Delete User Boot Logo
Startun Ann	Upgrade Device
Cooling Fan	
HDMI Out	

## **A-LINK DEVICE SETTING**

- Copy the 'system\_roik10' folder to the root of the SD card.

### THERE ARE TWO WAYS FOR START THE FIRMWARE.

- Select the 'setting > system update', and press the OK button. **It will start upgrade**
- Push hold "Recovery Key" and turn on (re-connect power cable), **It will start upgrade**

\* Update Time will 4~5 min, and first booting time will be 4~5 min.
\* Should be factory reset. when it done firmware



## **DVB-T** Diagram





## **Settings (How To Use KEYPAD)**

### **KEYPAD - Function #1**



Button	Function	Operation	Remarks		
MENU	Changing Modes	Press the button short time	Order : HDMI $\rightarrow$ NAVI $\rightarrow$ DVB-T $\rightarrow$ DVD $\rightarrow$ OEM		
2 SEL	Enter into the setting menu	Press the button short time			

## **KEYPAD - Function #2**

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



HDMI	INPUT SOURCE	DEFAULT
NAVIGATION	BRIGHT	AVM
REAR VIEW	CONTRAST RED	DTV
AV1 (FRONT VIEW)	CONTRAST GREEN	
AV2 (DTV)	CONTRAST BLUE	
NONE		
CUSTOM		
EXIT		
		FIRMWARE DATE : MAIN : 2018-03-02 SUB : 2018-03-02
		TW23 : 2018-03-02

HDMI	INPUT SOURCE	AVM (AROUND VIEW)
NAVIGATION	BRIGHT	128
REAR VIEW	CONTRAST RED	128
AV1 (FRONT VIEW)	CONTRAST GREEN	128
AV2 (DTV)	CONTRAST BLUE	128
NONE	AVM KEEPING TIME $R\toD$	7 Sec
CUSTOM	AVM KEEPING TIME $P\toD$	7 Sec
EXIT	PGS ON / OFF	OFF
	PGS - HORIZONTAL	128
	PGS - VERTICAL	128
	PDC ON / OFF	OFF
DIP SWITCH INFO :		FIRMWARE DATE :

	/	7						
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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

• 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'.



HDMI	INPUT SOURCE	DTV
NAVIGATION	BRIGHT	128
REAR VIEW	CONTRAST RED	128
AV1 (FRONT VIEW)	CONTRAST GREEN	128
AV2 (DTV)	CONTRAST BLUE	128
NONE	REMOTE OSD ON / OFF	ON
CUSTOM	REMOTE TYPE	ALPINE
EXIT	MEMORY UP	0x807f807f
	MEMORY DOWN (2)	0x807f807f
	MEMORY LEFT 3	0x807f807f
	MEMORY RIGHT 4	0x807f807f
	MEMORY OK 5	0x807f807f
	MEMORY MENU 6	0x807f807f
	MEMORY EXIT	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

## **HDMI INPUT - DTV**

### - BRIGHT and CONTRAST

Adjust the values of brightness and contrast

### - REMOTE OSD ON / OFF

 $\cdot$  You can control to some of function on DTV remote control by OSD UI

• Pionner - GEX909

### - REMOTE TYPE

· ALPINE - TUE-T500

· HIT7700





HDMI	INPUT SOURCE	OEM CAMERA
NAVIGATION	BRIGHT	AVM (AROUND VIEW)
REAR VIEW	CONTRAST RED	EXTERNAL CAMERA
FRONT VIEW	CONTRAST GREE	EN
DTV	CONTRAST BLUE	E
DVD		
CUSTOM		
EXIT		

DIP		СН				FIRMWARE DATE :
			10			MAIN : 2018-03-02 SUB : 2018-03-02
						TW23 : 2018-03-02

HDMI	INPUT SOURCE	AVM (AROUND VIEW)
NAVIGATION	BRIGHT	128
REAR VIEW	CONTRAST RED	128
FRONT VIEW	CONTRAST GREEN	128
DTV	CONTRAST BLUE	128
DVD	AVM KEEPING TIME $R \to D$	7 Sec
CUSTOM	AVM KEEPING TIME $P\toD$	7 Sec
EXIT	PGS ON / OFF	OFF
	PGS - HORIZONTAL	128
	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

 $\cdot\,$  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'.

### - PDC (Graphic Sensor Image)

· Sensor Image 'ON or OFF'.



HDMI	INPUT	SOURCE	EXTERNAL CAMERA	
NAVIGATION	BRIGHT		128	
REAR VIEW	CONTR	AST RED	128	
FRONT VIEW	CONTR	AST GREEN	128	
DTV	CONTR	AST BLUE	128	
DVD	PGS Of	N / OFF	OFF	
CUSTOM	PGS - H	IORIZONTAL	128	
EXIT	PGS - V	(ERTICAL	128	
	PDC ON	N / OFF	OFF	

**DIP SWITCH INFO :** 



#### FIRMWARE DATE : MAIN : 2018-03-02 SUB : 2018-03-02 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'.

### - PDC (Graphic Sensor Image)

· Sensor Image 'ON or OFF'.



HDMI	INPUT SOURCE	OEM CAMERA
NAVIGATION	CAM KEEPING TIME $R \rightarrow D$	7 Sec
REAR VIEW	CAM KEEPING TIME $P\toD$	7 Sec
FRONT VIEW		
DTV		
DVD		
CUSTOM		
EXIT		
<b>DIP SWITCH INFO :</b>		FIRMWARE DATE :
		MAIN : 2018-03-02
		TW23 : 2018-03-02

### 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.

### 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.

### - PDC (Graphic Sensor Image)

Sensor Image 'ON or OFF'.

HDMI	INPUT SOURCE	EXTERNAL CAMERA
NAVIGATION	BRIGHT	128
REAR VIEW	CONTRAST RED	128
FRONT VIEW	CONTRAST GREEN	128
DTV	CONTRAST BLUE	128
DVD	CAM KEEPING TIME $R \to D$	7 Sec
CUSTOM	CAM KEEPING TIME $P\toD$	7 Sec
EXIT		
DIP SWITCH INFO :		FIRMWARE DATE : MAIN : 2018-03-02 SUB : 2018-03-02 TW23 : 2018-03-02



HDMI	BRIGHT		128
NAVIGATION	CONTRAST RED		128
REAR VIEW	REAR VIEW CONTRAST GREEN		128
FRONT VIEW	CONTRAST BLUE		128
DTV	REMOTE OSD ON / O	OFF	ON
DVD	REMOTE TYPE		ALPINE
CUSTOM	MEMORY UP	1	0x807f807f
EXIT	MEMORY DOWN	2	0x807f807f
	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

## DTV, DVD

### - 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 · GEX909DTV · HIT7700

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