

HDK-KA4-HDD

- MODEL : H/W ver 22

- DATE : 2023.03.23



GU ELECTRONIC

Index

1. Main Spec
2. Block Diagram
3. Dimension
4. External Appearance
5. Connector Pin Assignment
6. Product Composition
7. DIP S/W Setting
8. Install Manual
9. Q & A

1. Main Spec.

1. Input Spec. (MULTI VIDEO INTERFACE)
 - 1 x Digital RGB Input (Navigation System source)
 - 1 x HDMI Input (HDMI System source – **Audio not support**)
 - 1 x LVDS Input. (Car Command System)

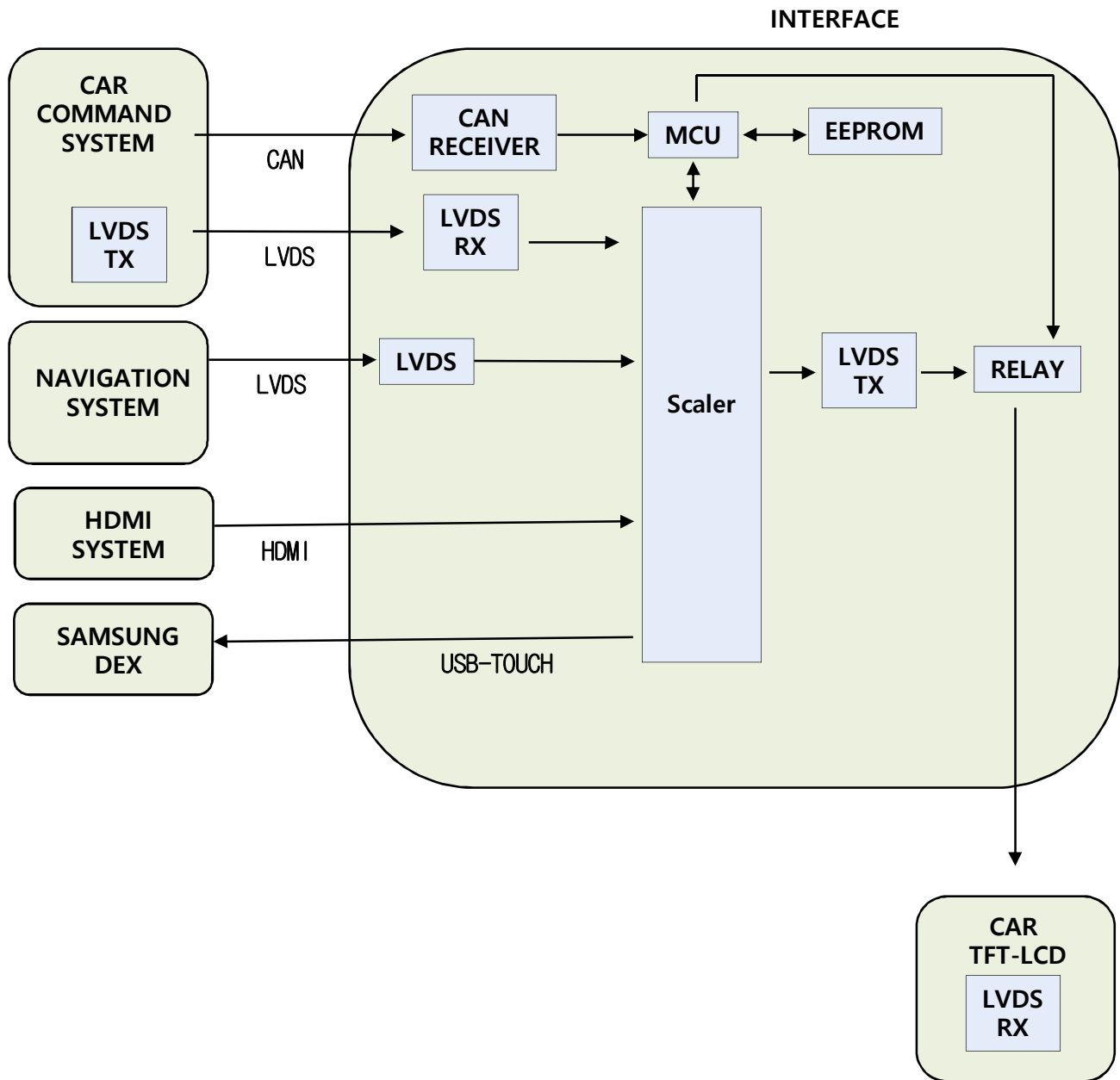
2. Output Spec.
 - 1 x Vertual Analog Touch (Navigation System source)
 - 1 x Uart Digital Touch (Navigation System source)
 - 1 x USB Touch (DEX System source)
 - 1 x LVDS Output (LCD Operation)

3. Power Spec.
 - Input Power : 8VDC ~ 24VDC
 - Consumption Power : 12Watt, Max
 - **Storage Temperature : 0 ~75°C**

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

5. **Not support OSD menu**

2. Block Diagram



3. Dimension

154mm * 95mm * 23mm

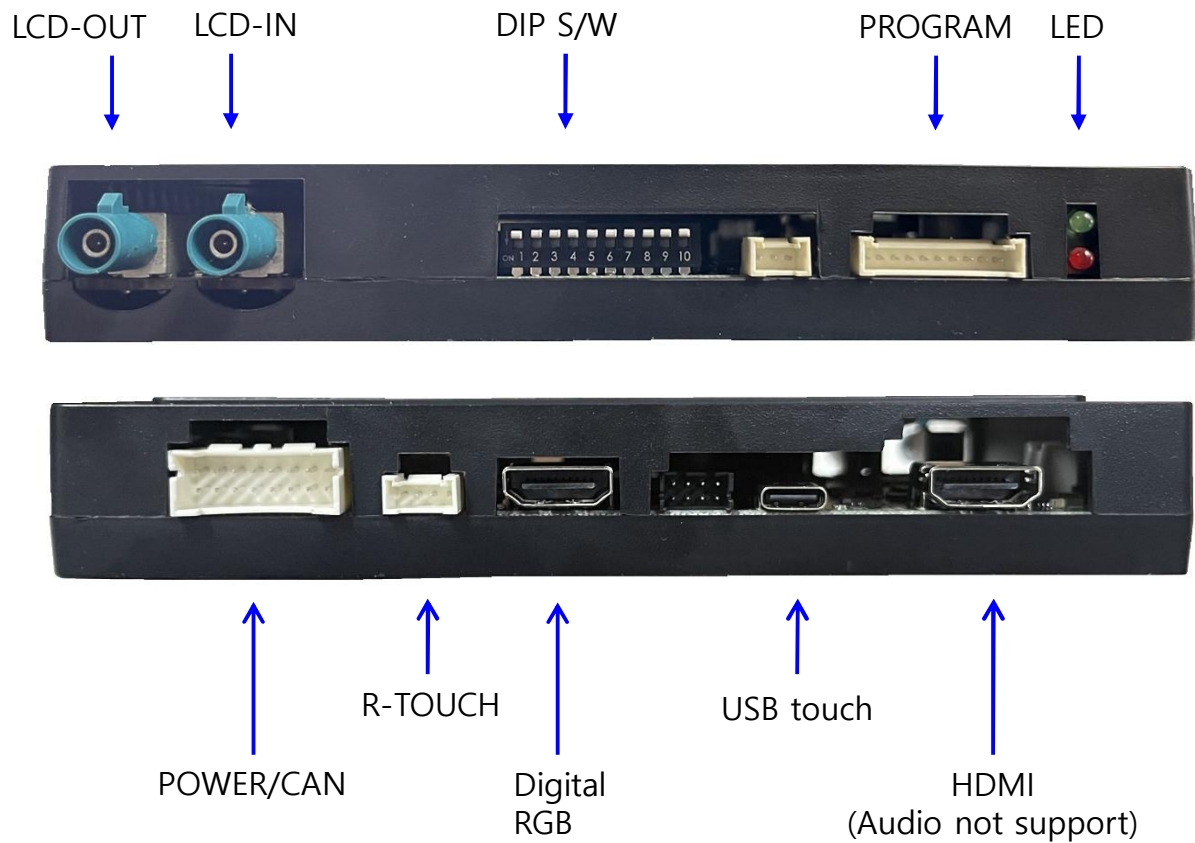


* This can change under manufacturer's circumstance

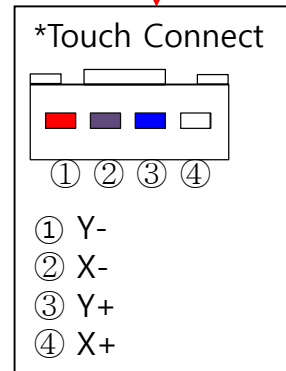
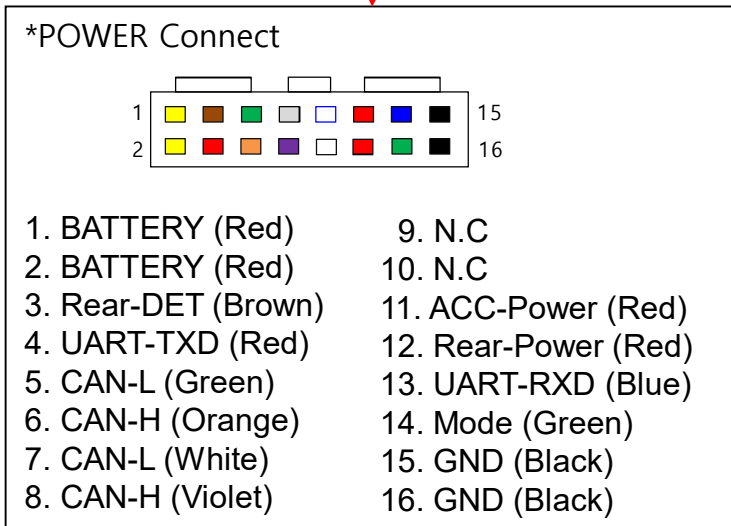
4. External Appearance



4. External Appearance



5. Connector Pin Assignment



* UART Voltage Level
 - TXD, RXD = 3.3V Level

* Output current
 - ACC POWER = +12V, Max 200mA
 - REAR POWR = +12V, Max 200mA

6. Product Composition



Interface 1 EA



LVDS-Extend Cable 1 EA



LVDS-IN Cable 1 EA



Power Cable 1 EA

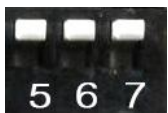


LVDS-OUT Cable 1 EA

7. DIP S/W Setting

* ON : DOWN , OFF : UP

| PIN | FUNCTION | DIP S/W Selection |
|-----|----------------|----------------------------------------------------|
| 1 | NAVI | ON : Not Used OFF : Used |
| 2 | HDMI(DEX) | ON : Not Used OFF : Used (Audio not support) |
| 3 | REAR TYPE | ON : OEM OFF : External |
| 4 | CAR type SEL | Right Picture |
| 5 | Navi Model SEL | Down Picture |
| 6 | | |
| 7 | | |
| 8 | CAR type SEL | Right Picture |
| 9 | | |
| 10 | | |

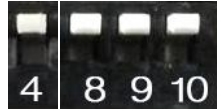


AVM(SVM)-HDMI
SAMSUNG-DEX

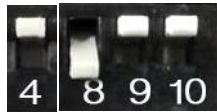


M2C/FINE

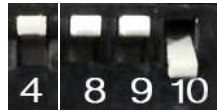
* DIP S/W Example



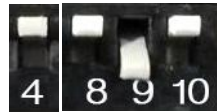
CARNIVAL(KA4) 2020.09~



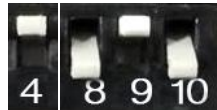
NIRO(SG2) 10.2" 2022~
TUCSON(NX4) 10.2" 2020.09~
K8(GL3) 12.3" 2021.04~
IONIQ5(NE) 12.3" 2021.02~
STARIA(US4) 10.2" 2021.04~



RAY 8" 2022.08~
CASPER(AX1) 8" 2021.09~
VENUE(QX) 8" 2022.10~



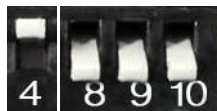
EV6 12.3" 2022~
SPORTAGE(NQ5) 2021.07~



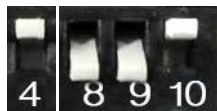
AVANTE(CN7) 10.2" 2020.04~
K3(BD) 10.2" 2021.04~
PALISADE(LX2 PE) 12.3" 2022.05~
SELTOS(SP2) 10.2" 2022.08~
G70(IK PE) 10.2" 2020.10~



GRANDEUR(IG) 12.3" 2019.11~



IONIQ6(CE EV) 12.3" 2022.09~



PORTER2 (HR EV) 10.2" 2021.12~
BONGO3 (PU EV) 10.2' 2021.12~



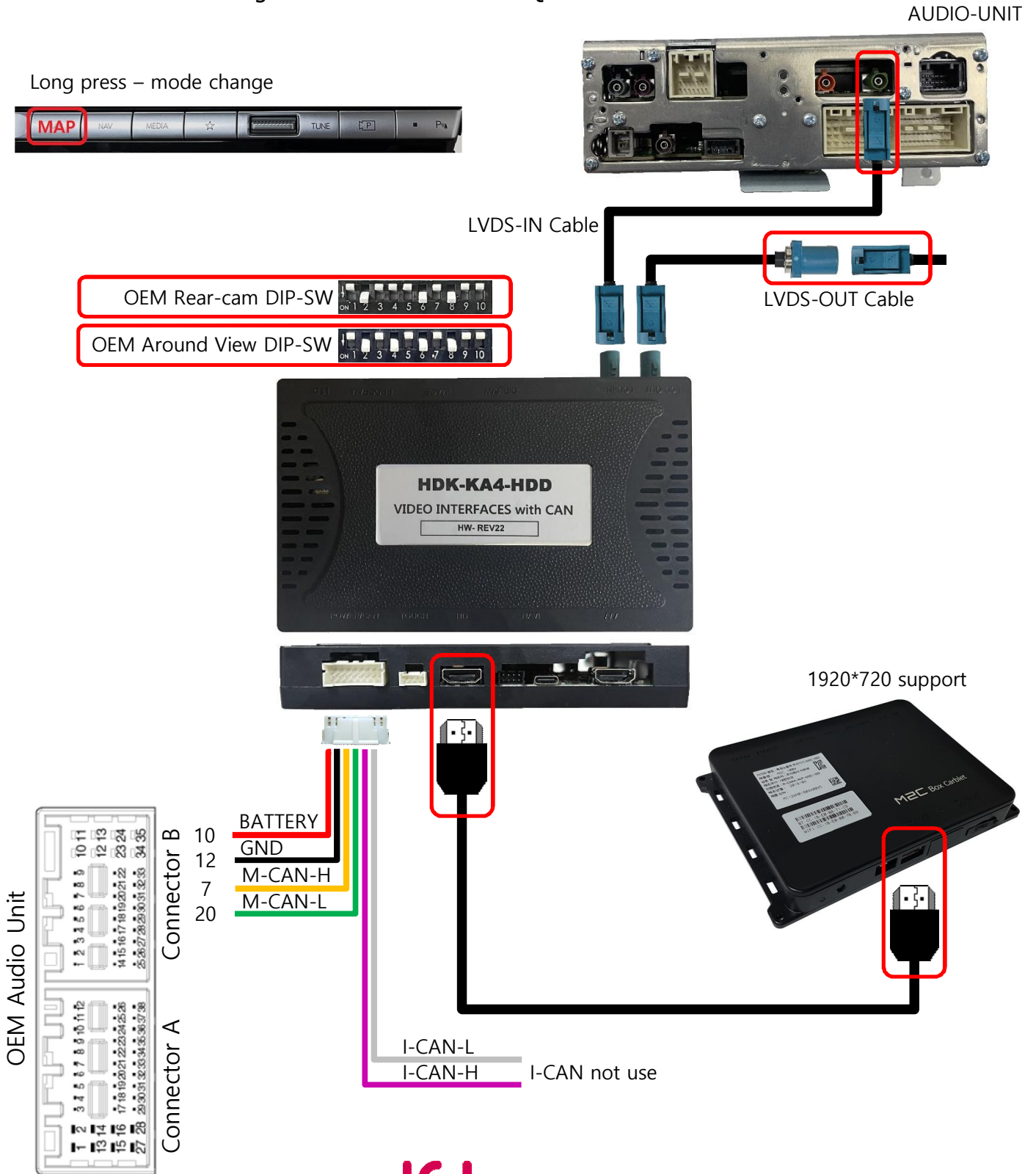
IONIQ5(NE EV) 12.3" 2021.02~
(OEM Around View)



GU Electronic

8. Install Manual

1. Installation M2C Navigation Connection to IONIQ5 12.3"



8. Install Manual

2. Installation Samsung-DEX Connection to IONIQ6 12.3"

Long press – mode change

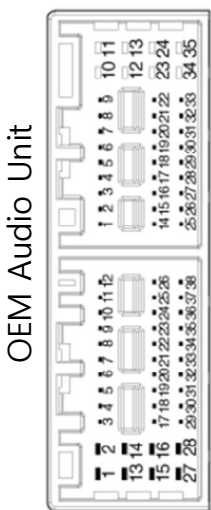


AUDIO-UNIT



LVDS-IN Cable

LVDS-OUT Cable

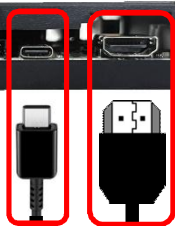


Connector B
10
12
7
20

Connector A

BATTERY
GND
M-CAN-H
M-CAN-L

I-CAN-L
I-CAN-H I-CAN not use



SAMSUNG DEX

DEX Charge

9. Q & A

FAQ

1. Display wrong size of picture
 - Check Dip s/w setting
2. Display black screen in OEM mode
 - Check connection of LVDS/LCD cable

Caution

1. The device must not be installed in where it interferes driving (close to brake pedal, steering wheel, airbag etc.)
2. LVDS cable must be connected correctly according to the manual
3. Insulate the end of wire by using electrical tape
4. The installation should be done by expert
5. GU electronic does not take any responsibility for any problem caused by wrong installation