

Stock Code: HK02488



- Professional Anti-theft Tool with Advanced Diagnostic
- New Product Line





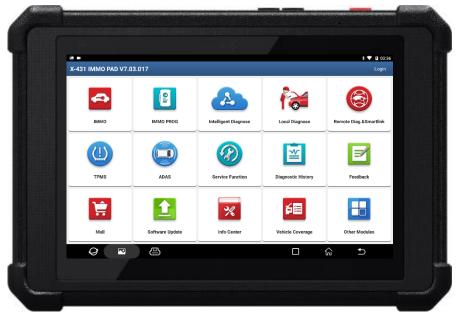








#### What is X-431 IMMO PAD?





















#### What is X-431 IMMO PAD?

#### **Anti-theft**

- Key and Immobilizer Programmer
- Chipset Read/Write
- EEPROM Read/Write
- Add Key
- ...

#### **Diagnostic**

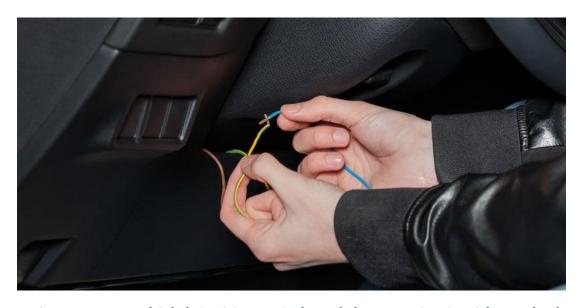
- Intelligent Diagnostic
- 110 + Models Comprehensive Diagnostic
- Smartlink Remote Diagnosis
- Advanced coding and programming
- J2534/RP1210/D-PDU
- ...







## **Vehicle Anti-Theft System**



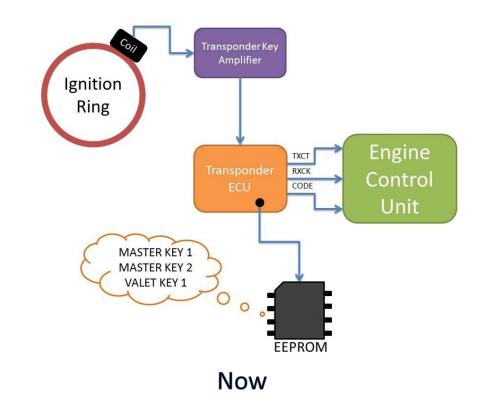
Bypassing a motor vehicle's ignition switch and thus starting it without the key.

Before 2000



## **Vehicle Anti-Theft System**

**Immobilizer** 





# When do you need it?

- Key Lost
- Add Key
- Immobilizer Replacement
- Engine System Replacement
- ......









# When do you need it?



A Part of IMMO Programming can be resolved by a single diagnostic tool.

Such as Toyota, Honda, etc.



Others have to be resolved by a X-431 IMMO

PAD

Such as BMW, Benz, VW/Audi 4<sup>th</sup> Gen or above, Porsche, etc.



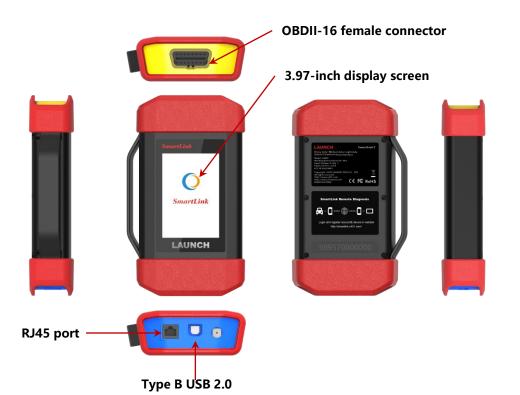
#### X-431 IMMO PAD Tablet



Item	Parameter
Processor	2.0GHz, Octa-Core
OS	Android 7.1
Memory	4GB
Storage	64GB
Battery	9360mAh
Display	10.1", 1920*1200
Camera	Front 8MP, Rear 13MP
Protection	IP65
WIFI	2.4GHz/5GHz
Interface	TYPE A *1 &TYPE C*1
Work Temperature	0~50°C
Dimension	320mm*211mm*46mm



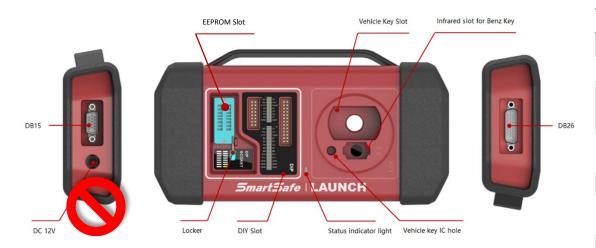
## **VCI – Smartlink C**



Item	Parameter
Display	3.97-Inch single-touch screen, 320*480
Memory	256MB
Storage	8GB
Remote Communication	WIFI/Ethernet
Working Voltage	DC 9V – 36V
USB	Type B USB2.0
Power Consumption	< 6W
Work Temperature	0~50°C
Dimension	204mm x 110mm x 45mm



#### X-PROG3



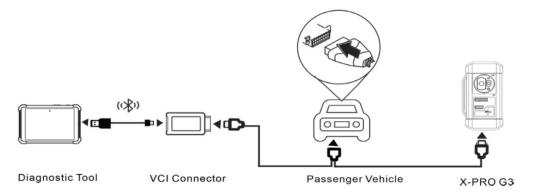
#### DC 12V is useless currently.

Interface	DB26, DB15
Input voltage	DC12V
Input current	500mA
Working temperature	0-50°C
Storage temperature	-20-70°C

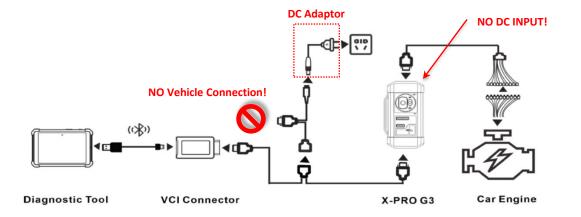
Name	Description	
Vehicle Key Slot	To place car key for RF defection	
DB26	Used to connect to each anti-theft cables	
Infrared slot for Benz key	Used to place the Mercedes-Benz infrared key to perform the key matching function	
Key IC hole	Used to place the key chip to perform the key matching function	
Status Indicator	Power supply indicator lamp	
DIY slot	Used to connect the anti-theft ECU pin through the cable to read and write data	
Locker	To tighten loose EEPROM board	
DC 12V	Used to connect to the DC12 power supply.	
DB15	To connect with vehicle's DLC	
EEPROM Slot	To insert EEPROM board	



#### How does it work?



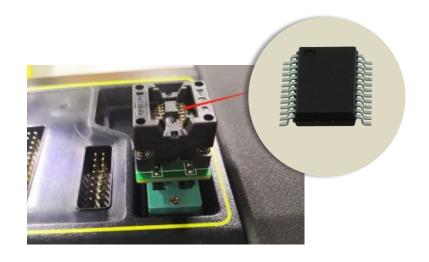
**Key Programming** 



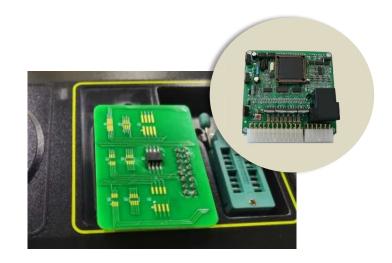
Engine/Gearbox
Anti-Theft Matching



#### How does it work?



EEPROM/MCU Chip R/W



Removed chip from ECU to connect DIY slot R/W

## **Advantages**

- Supports VW/AUDI MQB platform engine ECU replacement or cloning (Read engine ECU data directly from the key).
- Supports VW/AUDI MQB platform gearbox ECU replacement or cloning.
- Supports ECU replacement for fifth-generation Audi (0AW/0B5) gearboxs.
- Supports reading, writing & cloning of the ECU for fourth-generation VW UDS engines.
- Supports BMW E chassis 8HP gearbox ECU program wiping.
- Support Mercedes(Engine, Gearbox, EIS) and BMW(Gearbox) ECU anti-theft data erase.
- Supports 170+ Bosch, 10+ Siemens engine ECU and 18+ gearbox ECU BENCH mode clone.
  - ➢ Bosch engine ECU: ME17, MED17, EDC17, MEVD17, etc.
  - Siemens engine ECU: BMW(MSV90, MSD87, MSD85, MSD81, MSD80), Mercedes(SIM271DE2.0,SIM271KE2.0), VW/Audi(SIMOS8.6x,SIMOS8.5x,SIMOS8.4x), etc.
  - Gearbox ECU: DQ200-MQB, DQ250XX, DL501 Gen1,VL381,VGS2- FCVT,VGS-FDCT,DQ400E,DL501 Gen2,DL382-7F,VGS2-FDCT,9G\_Tronic,DQ380,DQ381, DQ500,AL551,AL450,AL552,AL951,8HPXX, etc.













#### **Anti-theft Functions**

- Anti-theft modules replacement
  - Support anti-theft modules replacement of BMW, Mercedes-Benz, VW/Audi, Honda, Nissan, Hyundai, Kia, BYD, Changan, Wuling Baojun, GAC, SAIC Maxus, Great Wall Motor, Chery Car, Dongfeng Fengxing, JAC Passenger Car, etc
- Anti-theft password reading
  - Supports the anti-theft password reading of Peugeot Citroen, GM, Nissan, Hyundai, Kia, Chery Cars, Dongfeng Fengxing, JAC Passenger Cars, etc.
- Key Matching
  - Support key matching of Ford, GM, Mercedes-Benz, BMW, VW/Audi, Porsche, Peugeot Citroen, Land Rover Jaguar, Honda, Toyota, Nissan, Hyundai, Kia, BYD, Changan Automobile, Wuling Baojun, Great Wall Motors, Chery Cars, JAC Passenger Cars, etc









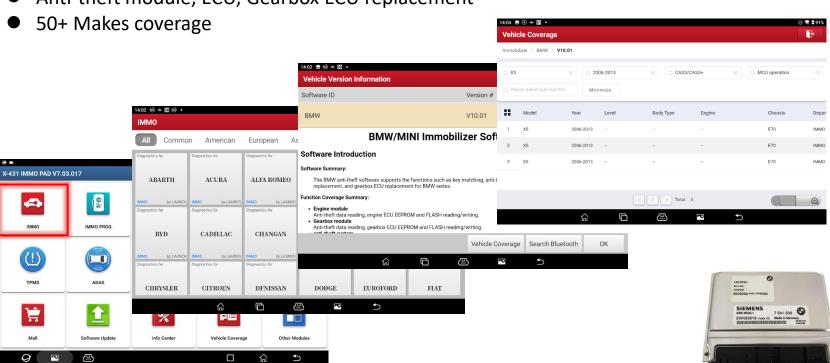






#### **IMMO**

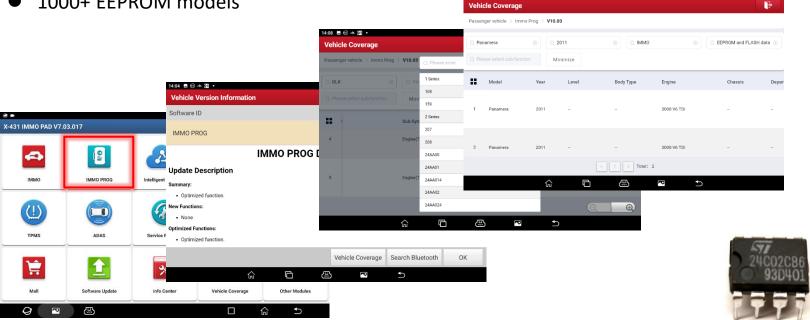
Anti-theft module, ECU, Gearbox ECU replacement





#### **IMMO PROG**

- EEPROM, MCU, ECU, Gearbox ECU chip read/write
- 1000+ MCU/ECU models
- 1000+ EEPROM models





#### "Why do I need diagnostic functions?"

- Pre and Post diagnostic report
- All systems diagnostic
- Better understand vehicle issues
- Clear DTC
- ..



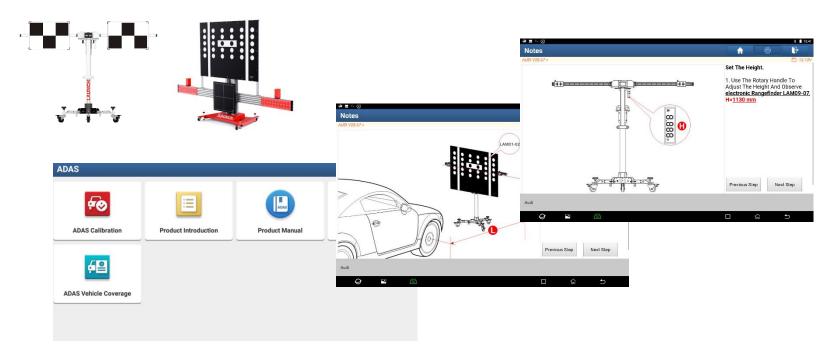


- Wide vehicle coverage. 110+ models.
- Powerful diagnostic functions, i.e. intelligent/remote diagnosis, read/clear DTC, Bi-directional functions, Coding, Programming, etc.
- Support CAN/CANFD/DoIP/J2534/D-PDU/RP1210
- Smartlink Remote Diagnosis





ADAS compatibility
 Optional ADAS calibration function with X-431 ADAS PRO and ADAS Mobile



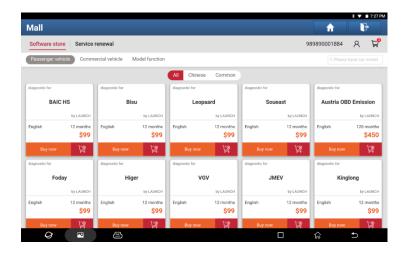


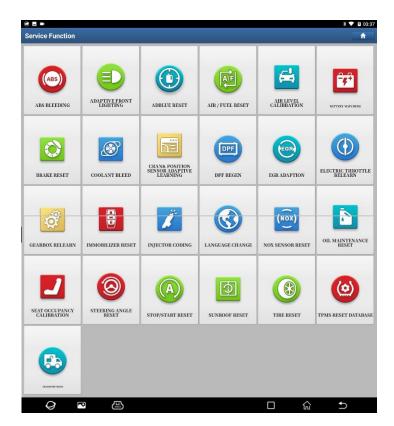
TPMS compatibility
 Optional TPMS function with X-431 TSGUN





- 25 service functions
- "Mall" to expand diagnostic coverage







Info Center
 Provide vehicle repair information, Launch official social media link to get latest products and after-market updates.



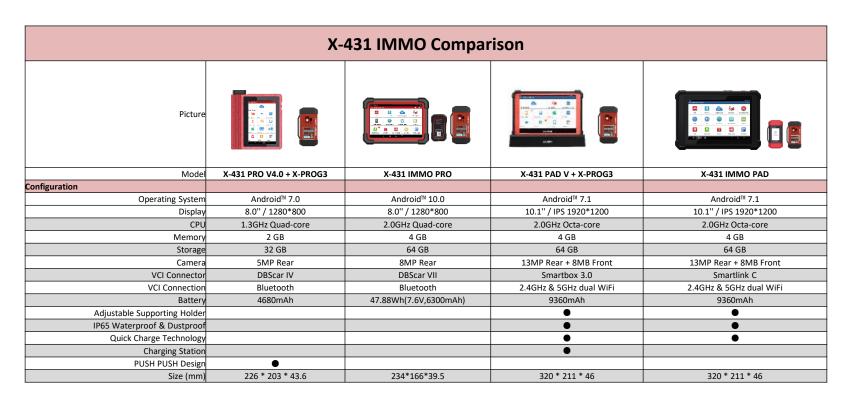




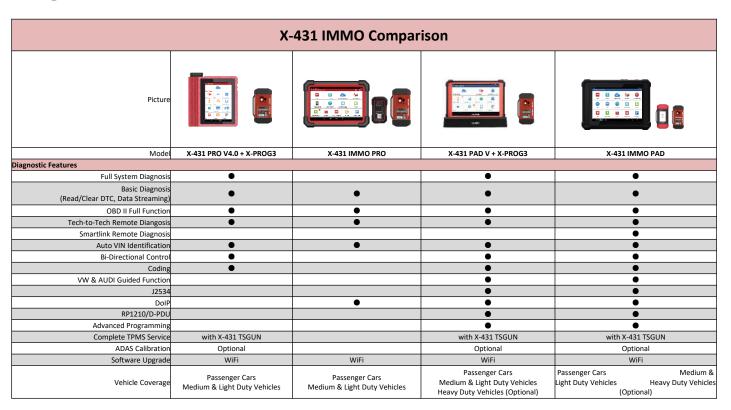
Diagnostic History



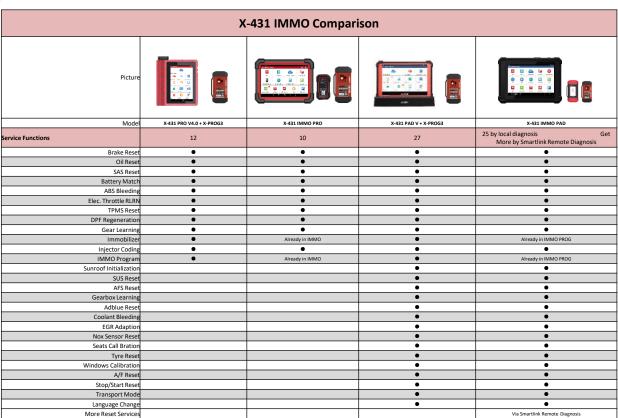




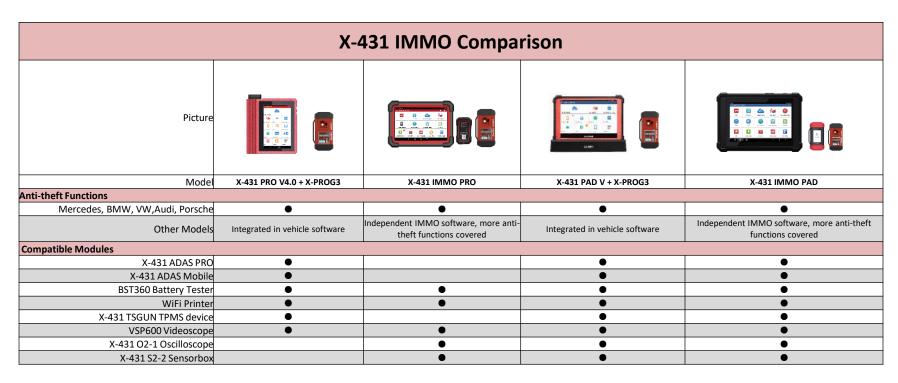














Product	IM608 PRO	X-431 IMMO	Comments
	Feat	tures	
Smart Mode (Guided and Automated Key Learning Function)	•	•	
Expert Mode (Advanced Key Learning)	•	•	
Auto Detect Make/Model/Year/System	•	•	
Read PIN (All Key Lost)	•	•	
Key Generation	•	•	
Key Learning	•	•	
Remote Learning	•	•	
IMMO ECU Reset/Adaption	•	•	PROG3 support more models on VW/Audi
IMMO ECU Refresh/Coding	•	•	
Backup/Restore IMMO Data	•	•	
BENZ 3rd Generation IMMO Add Key, All Key Lost via OBD	•	•	
Read/Write/Erase Benz ESL_W209 / W906 Data	•	•	
Benz OE NEC Key Learning	0	•	PROG3 support it without an extra adaptor
AUDI Q5/A4/A5 2015-2017 Key Learning via OBD	X	X	Autel flyer mentioned support but it doesn't because OEM has locked this function.
VW MQB engine, gearbox anti-theft matching	X	•	PROG3 support it without an extra adaptor
Volkswagen MQB Key Learning via OBD	•	•	
BMW FEM/BDC Key Learning and Adaption	•	X	PROG3 will support it in Dec 2021
BMW CAS4 Key Learning	•	•	
2015-2018 Land Rover&Jaguar Write Key via Dump	•	Х	PROG3 hardware supports it, but software is being developed.
Volvo Smart Key/Fobik Smart Key Learning	•	X	PROG3 will support soon



Product	IM608 PRO	X-431 IMMO	Comments	
	Programming			
EEPROM Read/Write	Advanced	•	IM608 supports more models	
MCU Read/Write	Advanced	•	IM608 supports more models	
Key Programming	Advanced	•		
Mercedes Infrared Key Read/Write	•	•		
Remote Frequency Detection	•	•		
Backup/Restore ECU FLASH&EEPROM	0	•	PROG3 supports more models	
Backup/Restore TCU FLASH&EEPROM	0	•		
Key simulator	0		PROG3 will support it in Jun 2021(Mainly for all key lost of Toyota smart key)	

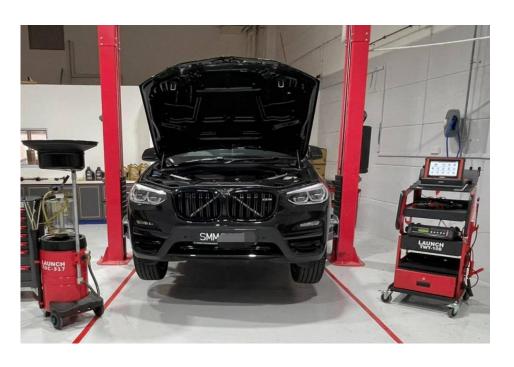
## **Target Customers**



- One-Stop
- Key Cutting & Programming
- Mobile Service

**Locksmiths** 

## **Target Customers**



- IMMO Replacement
- Key Coding/Replacement
- Contact an locksmith to cut the key. So it may take time

Workshops



Picture	Name	Description
	Main Diagnostic Cable	Connect vehicle DLC port, VCI and programmer for diagnose.
	Power Adapter	To provide power supply for the programmer.
	The 4 <sup>th</sup> generation data acquisition cable	After removing the vehicle dashboard, connect programmer, vehicle dashboard, and the cable.



Picture	Name	Description
	The 4 <sup>th</sup> generation of EEPROM data acquisition cable (without dismantling dashboard)	To connect the programmer and vehicle dashboard, and then place the probe(the yellow lead) to the designated area.
	BENCH mode cable	To connect the programmer and the engine to read engine or gearbox ECU (Connect engine ECU with the BENCH mode cable based on BENCH mode diagram).
No. 2 and a second seco	MCU Converter V1	To connect the programmer with MCU(chip soldering is required in this procedure).



Picture	Name	Description
	MCU Converter V2	To connect the programmer with MCU(chip soldering is required in this procedure).
10 1 10 10 10 10 10 10 10 10 10 10 10 10	EEPROM Chip Adaptor	To place the EEFROM chip onto the adaptor, and then plug it into the programmer socket.
	Benz infrared analog acquisition key	To connect the programmer with the key lock, insert the key into the programmer for further key operations.



Picture	Name	Description
## 100 M,  ## 100 M,	EEPROM Converter	To solder the desired chip on the EEPROM converter, and then plug the board into the programmer(chip soldering is required).
	MCU cable with multiple leads	To connect the programmer and MCU.
	ECU jumper cable	Work with ECU bench mode connector to program ECU.



**Q & A** 

