Autel Product Competitiveness Summary

(Q2 2023)

Detailed Introduction to Autel Competitiveness on Global Important Vehicle Makes Compared with Bosch

Summary on Competitiveness Compared with Bosch

Function	Advantages
Coverage of models and functions	Coverage of models and functions is more than one year ahead of competing products on average, which far outclasses that of competing products. In addition, Autel devices exclusively support Volvo gateway unlocking function.
Programming and coding	**Competing products do not support programming and coding.** **Autel devices support programming for the following makes in Europe and America: Mercedes-Benz, and BMW.** **Autel devices support programming for over 25 makes in Asia-Pacific, IMEA, South America, and China**: Mercedes-Benz, BMW, BMW Brilliance, Volkswagen, Shanghai Volkswagen, Audi, FAW-Volkswagen, Skoda, Land Rover, Jaguar, Porsche, Renault, GM (China), Nissan, Infiniti, Subaru, Hyundai, Beijing Hyundai, Kia, Yueda Kia, Great Wall, GAC Motor, Roewe, MG, Geely, etc.
Intelligent Diagnostics	**Competing products do not support intelligent diagnostics.** **Autel devices support Intelligent Diagnostics function for over 20 makes**: : Mercedes-Benz, BMW, Volkswagen, GM, Chevrolet, Ford, Chrysler, Dodge, Jeep, Fiat, Alfa Romeo, Toyota, Lexus, Nissan, Infiniti, Hyundai, Kia, Honda, Acura, Volvo, Subaru
Auto scan speed	**Auto scan speed of competing products is slower than that of Autel devices by more than 100%.** **Autel devices support Auto Scan 2.0 with significantly improved diagnostic scan speed for over 20 makes**: Mercedes-Benz, BMW, Volkswagen, GM, Ford, Mazda, Chrysler, Fiat, Nissan, Toyota, Hyundai, Kia, Honda, Renault, PSA, Changan, Great Wall, BYD, Chery, Geely, SGMW, Baojun, etc.
Topology	**Competing products do not support Topology function.** **Autel devices support Topology function for over 30 makes**: Mercedes-Benz, BMW, Volkswagen, GM, Chevrolet, Ford, Mazda, Chrysler, Dodge, Jeep, Fiat, Alfa Romeo, Nissan, Infiniti, Toyota, Lexus, Hyundai, Kia, Honda, Acura, Renault, PSA, Land Rover, Jaguar, Volvo , Subaru, Suzuki, Mitsubishi, etc.

Advantages on Global Important Makes (American Makes) Compared with Bosch

Make	Advantages on Coverage of Models	Advantages on Coverage of Functions	Advantages on Programming and Coding	Advantages on Coverage of Intelligent Diagnostics	Advantages on Auto Scan Speed	Advantages on Topology
GM	Ultra supports models up to 2024; Competitors support models up to 2023.	Coverage of special functions is 20% ahead of that of competing products. For example, supports special functions such as Silverado Automated Bleed, DPF, and Fuel Injector Flow Identifier.	Not supported by Autel and competing products	Supports DTC smart recommendation function for top 13 models, while competing products do not support. DTC coverage for DTC Analysis function is ahead of that of competing products.	Supports Auto Scan 2.0 with average scan time 10 s, which is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products
Ford	Ultra supports Ford and Lincoln models up to 2023, which is consistent with the coverage of competitors.	1. The coverage rate of systems supporting basic functions is higher than that of competitors. 2. Ultra supports more special functions than competitors, and competitors support some commonly used special functions.	Not supported by Autel and competing products	Ultra supports the DTC recommendation function (39000+ model system paths) for North American Ford models, which is not supported by competitors.	Supports Auto Scan 2.0 with average scan time 10 s, which is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products
Chrysler	Ultra supports 12 more models of 2023 than competitors including D2-Ram 3500 Pickup, DD-Ram 3500 Cab Chassis, DF-Ram 3500 cab chassis 10K, DJ-Ram 2500, DP-Ram 4500/5500, DT-Ram 1500, DX-Ram (Mexico), GG-Hornet, K8-Grand Commander, VF-ProMaster.	1. The coverage rate of systems reaches 95%, and 10% higher than that of competitors; 2. The coverage rate of special functions is 10% higher than that of competitors.	Not supported by Autel and competing products	Supports DTC recommendation function for over 3000 DTCs. DTC recommendation function not supported by competing products	Supports Auto Scan 2.0 with average scan time 10 s, which is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products

Advantages on Global Important Makes (European Makes) Compared with Bosch

Make	Advantages on Coverage of Models	Advantages on Coverage of Functions	Advantages on Programming and Coding	Advantages on Coverage of Intelligent Diagnostics	Advantages on Auto Scan Speed	Advantages on Topology
Mercedes-Benz	Ultra supports models up to 2023. Bosch only supports models up to 2021. Compared with competitors, Ultra supports more models (including 247, 243, 236, 254, 297, 295 and other chassis).	1. Ultra supports more basic functions than competitors. For example, Ultra supports LIN system functions and the coverage rate of live data is 50% higher than that of competitors. 2. Supports more functions than competing products for important systems of C-Class, S-Class, and SLK-Class: Active Test, Live Data, Special Function, such as backup and restore of gearbox tuning data.	1. Ultra supports programming and coding for models up to March 2023, and competitors do not support programming. 2. Ultra supports functions including Programming Restoration, Vehicle Configuration Synchronization, Gearbox tuning data backup and restore function, etc. Programming and coding not supported by competing products	1. Supports more than 7000 functions related to intelligent diagnostics for more than 22000 DTCs, thus makes Intelligent Diagnostics function 80% ahead of that of competing products. 2. Supports more than 3000 functions related to Component Test for 603 ECUs. While competing products do not support Component Test function.	Supports Auto Scan 2.0 with average scan time 10 s, which is ahead of competing products.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products
BMW	Ultra supports models up to May 2023; Competitors only support models up to March 2022. Compared with competitors, Ultra supports more models (including U11、U12、G70、G09、G26、G42、G83、I20、U06、RR21、RR22 chassis)	1. Ultra supports more functions than competing products: Comfort Mode under Hidden-Function/Retrofit, Change VIN of Gateway Module, S code, etc 2. The number of systems and functions supported by Ultra exceeds that of competitors; Ultra supports Trouble Codes and Live Data of new chassis such as U06 and I20.	Ultra supports programming and coding for models with integration level up to March 2023 Programming and coding not supported by competing products	1. Supports process of Repair Assist for 80% DTCs and supports Wiring Diagram and Help Document, which is ahead of those of competing products. 2. Supports DTC Analysis for 80% DTCs, which is ahead of those of competing products.	Supports Auto Scan 2.0 with average scan time 10 s, which is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products
VAG	Ultra supports models up to May 2023; Compared with competitors, Ultra supports more models including：Volkswagen: D2-Notchback 2022, ID.5 2022, CF - VILORAN 2022, EB - ID.Buzz 2022, CX-TAVENDOR 2023 Skoda: Slavia 2022 etc.	1. Ultra supports more basic functions than competitors: multiple data identification, encoding subsystem functions. 2. Ultra supports more Hide functions than competitors: Volkswagen, Audi, Skoda. 3. Ultra supports more online functions than competitors: learning value backup/restore. 4. Ultra supports more protocols than competitors: CanFD.DoIP protocol.	Ultra supports programming and coding for models up to January 2023. Competitors do not support programming.	The coverage rate of Intelligent Diagnostics is higher than that of competitors. For example, Audi supports 80% of top trouble codes, Volkswagen supports Top200 trouble codes, which are not supported by competitors.	Supports Auto Scan 2.0, with average scan time 10 s for 2015 onward models, which is ahead of that of competing products	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products

Advantages on Global Important Makes (European Makes) Compared with Bosch

Make	Advantages on Coverage of Models	Advantages on Coverage of Functions	Advantages on Programming and Coding	Advantages on Coverage of Intelligent Diagnostics	Advantages on Auto Scan Speed	Advantages on Topology
PSA	Supports 14 more models than competing products for 2019-2023 new cars.	The system coverage rate of the new model is 100%, and the ECU function supports comprehensively ECU information, live data, read/clear code, freeze frame, active test and special functions; Competing products are not supported by some systems and only cover some basic functions and special functions.	1. The 15 new models added after 2019 support online configuration (parameter configuration, configuration backup and restore)). 2. Some ECUs of models before 2019 support the online configuration function.	Not supported by Autel and competing products	Supports Auto Scan 2.0 with average scan time 15 s, which is ahead of competing products.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products
Fiat	Ultra supports 8 more models of 2022 including Ducato MCA and Tipo MHEV than competitors, and 6 more models of 2023 including Nova Strada and 500 BEV than competitors.	The coverage rate of special functions is 20% higher than that of competitors.	Not supported by Autel and competing products	Ultra supports 4870 recommendation functions for 1236 trouble codes in Intelligent Diagnostics, which are not supported by competitors.	Supports Auto Scan 2.0 with average scan time 10 s, which is ahead of competing products.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products
JLR	Ultra supports models up to 2023; Competitors only support models up to 2022.	1. The coverage rate of basic functions of models after 2020 is 10% higher than that of competitors; 2. The coverage rate of special functions is 75% higher than that of competitors.	Ultra supports programming function for 2006-2016 models, and competitors do not support the programming function.	Ultra supports the Repair Assist function for 2006-2016 models, which is not supported by competitors.	Auto scan speed is almost on par with that of the competing products but with slight advantages.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products
Renault	Ultra supports Trafic III ph2 and Kangoo III, which are not supported by competitors.	The coverage rate of special functions reaches 95%.	Online coding function is ahead of that of competing products. (The function of competing products is fake and cannot be used.)	Supports DTC recommendation function and is ahead of that of competing products.	Supports Auto Scan 2.0 with average scan time 15 s, which is ahead of competing products.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products

Advantages on Global Important Makes (European Makes) Compared with Bosch

Make	Advantages on Coverage of Models	Advantages on Coverage of Functions	Advantages on Programming and Coding	Advantages on Coverage of Intelligent Diagnostics	Advantages on Auto Scan Speed	Advantages on Topology
Porsche	The coverage rate of models is higher than that of competitors (such as 2023 Panamera_971, 991, Macan, 992).	1. The coverage rate of special functions is higher than that of competitors; 2. The coverage rate of systems is higher than that of competitors, such as the interior sound, and the front axle lifting module of Boxster/Cayman (981) models.	Ultra supports programming, irregular coding and online coding for models up to 2022, and competitors do not support programming and coding functions.	Not supported by Autel and competing products	Auto scan speed is almost on par with that of the competing products but with slight advantages.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products
OPEL	1. Supports more models (2021, with old structure) than competing products: Crossland X, Grandland X, Insignia-B, Astra-K, and Movano-B. 2. Supports more models (2020-2023, with new structure) than competing products：Corsa F、MOKKA、COMBO LIFE COMBO CARGO、Vivaro、Zafira Vivaro Life、Grandland、ASTRA、Rocks-e、COMBO LIFE、MOVANO; 3. Ultra supports models up to 2023; Competitors support models up to 2019.	Supports more special functions than competing products. Competing products only support few hot functions.	Not supported by Autel and competing products	Not supported by Autel and competing products	Auto scan speed is almost on par with that of the competing products but with slight advantages.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products
Volvo	Ultra supports XC40, XC60, XC90, S90, S90L, S60, V90 Cross Country, V90, V60 Cross Country, V60, C40 models up to 2023, while competitors only support models up to 2022.	1. Ultra supports functions (Erase Codes, Oil Reset, etc.) for models equipped with VGM gateway. Competitors cannot unlock the VGM gateway to perform corresponding functions. 2. Ultra supports special functions for models up to 2023, while competitors only cover models up to 2022.	Not supported by Autel and competing products	1. Ultra supports the DTC recommendation function for 3516 trouble codes, which is not supported by competitors.	Auto scan speed is ahead of that of competing products	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products

Advantages on Global Important Makes (Japan and South Korean Makes) Compared with Bosch

Make	Advantages on Coverage of Models	Advantages on Coverage of Functions	Advantages on Programming and Coding	Advantages on Coverage of Intelligent Diagnostics	Advantages on Auto Scan Speed	Advantages on Topology
Toyota	Ultra supports toyota up to 2024, which are not supported by competitors.	The coverage rate of special functions is 18% higher than competitors, such as vehicle operation history (Rob), write remaining thickness of brake pads, rear remote control pairing mode, vacuum pump information initialization, etc.	Not supported by Autel and competing products	Ultra supports the DTC recommendation function for 222 models from 1996 to 2022, which is not supported by competitors.	Supports Auto Scan 2.0 with average scan time 20 s, which is ahead of competing products.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products
Nissan	Ultra supports 34 more models of 2023 than competitors including Altima, Rogue, X-trail, Leaf, KICKS, Infiniti Q50, Infiniti QX50, and Infiniti QX60.	The coverage rate of special functions is higher than that of competitors. For example: Ultra supports all special functions such as idling air volume learning, fuel injector replacement, brake lining replacement, maintenance and regeneration for 2023 models.	Supports programming function for models up to October, 2022. While competing products do not support.	Ultra supports the DTC recommendation function for 3000+ trouble codes, which is not supported by Bosch.	Supports Auto Scan 2.0 with average scan time 20 s, which is ahead of competing products.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products
Honda	1. Ultra supports Dongfeng Honda and Guangzhou Honda up to 2023, which are not supported by competitors. 2. Ultra supports more Honda models of 2023 than competitors including Vezel, Fit, Avancier. 3. Ultra supports more Acura models of 2023 than competitors including Acura CDX, Acura ILX, Acura EL.	Coverage of special functions is 10% ahead of that of competing products. For example, supports special functions including A/C Refrigerant Electric Expansion Valve Test, A/C Refrigerant Shut-off Valve Test, and Wireless Seat Belt Reminder System Pairing.	Not supported by Autel and competing products	Not supported by Autel and competing products	Supports Auto Scan 2.0 with average scan time 60 s, which is ahead of competing products.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products

Advantages on Global Important Makes (Japan and South Korean Makes) Compared with Bosch

Make	Advantages on Coverage of Models	Advantages on Coverage of Functions	Advantages on Programming and Coding	Advantages on Coverage of Intelligent Diagnostics	Advantages on Auto Scan Speed	Advantages on Topology
Hyundai&KIA	1. Ultra supports 36 more Hyundai models of 2023 than competitors, including Creat (GSB), I20 (BI3), GRAND i10 (AI3); 2. Ultra supports 69 more KIA models of 2023 than competitors, including CARENS (KY), Ceed (CD), K8 (GL3).	The coverage rate of special functions is 20% higher than that of competitors.	Supports programming function for some models of Beijing Hyundai, Yueda Kia, Hyundai Europe, Hyundai USA, Kia Europe. Programming not supported by competing products	Supports DTC recommendation function for over 3000 DTCs for models in USA. DTC recommendation function not supported by competing products	Supports Auto Scan 2.0 with average scan time 15 s, which is ahead of competing products.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products
Subaru	1. Ultra supports more models of 2024 than Bosch including Legacy, Outback, Liberty, Impreza, Crosstrek. 2. Ultra supports more models of 2023 than competitors including BRZ, Levorg, XV.	The coverage rate of special functions reaches 91%, and 50% higher than that of competitors. Supports special functions including VIN Entry, Test Mode Change, Evaporative System Leak Test, AWD on/off Switching Mode, and Start Count Clearing.	Supports programming on engine for models in IMEA and Asia Pacific. Programming not supported by competing products	Not supported by Autel and competing products	Auto scan speed is almost on par with that of the competing products but with slight advantages.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products

Detailed Introduction to Autel Competitiveness on Global Important Vehicle Makes Compared with X431

Summary on Competitiveness Compared with X431

Function	Advantages
Coverage of models and functions	Coverage of models and functions is more than half year ahead of competing products on average, which is comprehensive and poineering with obvious advantages. In addition, Autel devices exclusively support Volvo gateway unlocking function.
Programming and coding	The number of systems where programming and coding is supported by competing products is basically the same as that of Autel. **Autel is 20% ahead of competing products considering coverage of programming and SCN of Mercedes-Benz and online functions of Volkswagen. And coverage of coding for BMW is one year ahead of competing products.** Besides, Coverage and accuracy of programming and coding for GAC Motor, Roewe, MG, Nissan, Hyundai, Kia are ahead of those of competing products. Autel devices support programming for the following makes in Europe and America: Mercedes-Benz, and BMW **Autel devices support programming for more than 25 makes in Asia-Pacific, IMEA, South America, and China**: Mercedes-Benz, BMW, BMW Brilliance, Volkswagen, Shanghai Volkswagen, Audi, FAW-Volkswagen, Skoda, Land Rover, Jaguar, Porsche, Renault, GM (China), Nissan, Infiniti, Subaru, Hyundai, Beijing Hyundai, Kia, Yueda Kia, Great Wall, GAC Motor, Roewe, MG, Geely, etc.
Intelligent Diagnostics	Competing products do not support intelligent diagnostics. **Autel devices support Intelligent Diagnostics function for over 20 makes**: : Mercedes-Benz, BMW, Volkswagen, GM, Chevrolet, Ford, Chrysler, Dodge, Jeep, Fiat, Alfa Romeo, Toyota, Lexus, Nissan, Infiniti, Hyundai, Kia, Honda, Acura, Volvo, Subaru
Auto scan speed	Competing products support auto scan 2.0 for some models, but the scan speed is about 50% slower than that of Autel devices. **Autel devices support Auto Scan 2.0 with significantly improved diagnostic scan speed for over 20 makes:** Mercedes-Benz, BMW, Volkswagen, GM, Ford, Mazda, Chrysler, Fiat, Nissan, Toyota, Hyundai, Kia, Honda, Renault, PSA, Changan, Great Wall, BYD, Chery, Geely , SGMW, Baojun, etc.
Topology	Competing products do not support professional Topology. **Autel devices support Topology function for over 30 makes**: Mercedes-Benz, BMW, Volkswagen, GM, Chevrolet, Ford, Mazda, Chrysler, Dodge, Jeep, Fiat, Alfa Romeo, Nissan, Infiniti, Toyota, Lexus, Hyundai, Kia, Honda, Acura, Renault, PSA, Land Rover, Jaguar, Volvo, Subaru, Suzuki, Mitsubishi, etc.

Advantages on Global Important Makes (American Makes) Compared with X431

Make	Advantages on Coverage of Models	Advantages on Coverage of Functions	Advantages on Programming and Coding	Advantages on Coverage of Intelligent Diagnostics	Advantages on Auto Scan Speed	Advantages on Topology
GM	Ultra supports models up to 2024; Competitors support models up to 2023.	The coverage rate of special functions for new models is higher than competitors.	Not supported by Autel and competing products	Supports DTC smart recommendation function for top 13 models, while competing products do not support. Coverage of DTCs that support DTC Analysis function is ahead of that of competing products.	Supports Auto Scan 2.0 with average scan time 10 s, which is ahead of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.
Ford&Mazda	Supports models up to 2023; supports more models than competitors including CX-60、MX-30、CX-90.	Support basic diagnostics and special functions for new models CX-60, MX-30, CX-90, while competing products do not support.	Covering the offline module replacement and coding functions of most systems in 2018, the coverage rate is more than that of competing products.	Ultra supports the DTC recommendation function (39000+ model system paths) for North American Ford models, which is not supported by competitors.	Supports Auto Scan 2.0 with average scan time 10 s, which is ahead of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.
Chrysler	Ultra supports 2 more models of 2023 than competitors: MV-COMPASS and GG-Hornet.	1. The coverage rate of systems reaches 95%, and 5% higher than that of competitors;	Not supported by Autel and competing products	Supports DTC recommendation function for over 3000 DTCs. not supported by competing products	Supports Auto Scan 2.0 with average scan time 10 s, which is ahead of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.

Advantages on Global Important Makes (European Makes) Compared with X431

Make	Advantages on Coverage of Models	Advantages on Coverage of Functions	Advantages on Programming and Coding	Advantages on Coverage of Intelligent Diagnostics	Advantages on Auto Scan Speed	Advantages on Topology
Mercedes-Benz	Both Ultra and competitors support models up to 2023. Ultra supports VIN code analysis of chassis models such as 254, 297, and 295, which are not supported by competitors.	1. Ultra supports more basic functions than competitors. For example, Ultra supports LIN system functions and the coverage rate of live data is 30% higher than that of competitors. 2. Ultra supports more retrofit functions than competitors. Ultra has a separate retrofit menu, which is not supported by competitors 3. The coverage rate of special functions is 20% higher than that of competitors. For example, Ultra supports GPF, instrument replacement and other functions, which are not supported by competitors.	1. Ultra supports programming and coding for models up to March 2023, and competitors do not support programming. 2. Ultra supports functions including Programming Restoration, Vehicle Configuration Synchronization, Gearbox tuning data backup and restore function, etc. 3. Coverage of programming and SCN is 20% ahead of that of competing products. Programming and coding not supported by competing products	1. Supports more than 7000 functions related to intelligent diagnostics for more than 22000 DTCs, thus makes Intelligent Diagnostics function 80% ahead of that of competing products. 2. Supports more than 3000 functions related to Component Test for 603 ECUs. While competing products do not support Component Test function.	Supports Auto Scan 2.0 with average scan time 40 s, while competing products do not support.	Supports professional topology to show the real topological structure of the vehicle.
BMW	Ultra supports models up to May 2023; competitors only support models up to March 2022. supports 7 more chassis than competitors including G26、G42、G83、G70、G09, etc.	1. Supports more functions related to Hidden-Function compared with competing products: Comfort Mode under Hidden-Function/Retrofit 2. Supports more Service functions than competing products: Change VIN of Gateway Module, ect. 3. Supports S code, while competing products do not support.	1. Ultra supports programming and coding for models with integration level up to March 2023; 2. Ultra supports more commonly used Hide functions than competitors; 3. IX3 supports high voltage system programming.	Supports more comprehensive wiring diagrams than competing products.	Supports Auto Scan 2.0 with average scan time 10 s, which is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products
VAG	Ultra supports models up to June 2023, and supports more models than competitors: CF - Viloran 2022, EB - ID.Buzz 2022, CX-TAVENDOR 2023, SAIC Audi Q6 2023, Lavida XR 2023, etc.	1. Ultra supports more basic functions than competitors: multiple data identification, encoding subsystem functions. 2. Ultra supports more Hide functions than competitors: Volkswagen, Audi, Skoda. 3. Ultra supports more online functions than competitors: learning value backup/restore. 4. Ultra supports more protocols than competitors: CanFD/DoIP protocol.	Ultra supports programming and coding for models up to January 2023, ahead of that of competing products.	The coverage rate of Intelligent Diagnostics is higher than that of competitors. For example, Audi supports 80% of top trouble codes, Volkswagen supports Top200 trouble codes.	Supports Auto Scan 2.0, with average scan time less than 10 s for 2015 onward models, which is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle. Not supported by competing products

Advantages on Global Important Makes (European Makes) Compared with X431

Make	Advantages on Coverage of Models	Advantages on Coverage of Functions	Advantages on Programming and Coding	Advantages on Coverage of Intelligent Diagnostics	Advantages on Auto Scan Speed	Advantages on Topology
PSA	1. Supports models up to 2023 while competing products support models up to 2022. 2. Supports 5 more models that competing products: 408X, 408(P54), 308(P5), C3(CC21), and C4 X.	1. Supports basic functions (ECU Information, Live Data, Trouble Codes, and Active Test) for all systems of new models, while competing products do not support Live Data and Active Test for systems including BSI and engine. 2. Coverage of special functions is ahead of that of competing products.	1. Supports online configuration (parameter configuration, parameter backup and restoration) for 13 added models (2019-), while competing products support such functions for a few models. 2. Supports more offline configuration functions for models before 2020 compared with competing products.	Not supported by Autel and competing products	Supports Auto Scan 2.0 with average scan time 15 s, which is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.
Fiat	Supports 4 more models than competing products: New 700, 500L MCA, K0 Doblo, and K9 PROTO.	Coverage of special functions is 5% ahead of that of competing products, supporting special functions including Clutch Pedal Learning, and First Gear Position Value.	Not supported by Ultra and competitors	Ultra supports DTC recommendation function for over 1200 $^{DTCs.}$, which are not supported by competitors.	Supports Auto Scan 2.0 with average scan time 10 s, which is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.
JLR	Supports more models than competing products: New Range Rover/L460 (2022-), and New Range Rover Sport/L461 (2023)	The coverage rate of basic functions for models after 2020 is 10% higher than that of competitors; The coverage rate of special functions for models after 2017 is 50% higher than that of competitors.	Supports programming for more systems than competing products.	Ultra supports the Repair Assist function for 2006-2016 models, which is not supported by competitors.	Auto scan speed is almost on par with that of the competing products but with slight advantages.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.

Advantages on Global Important Makes (European Makes) Compared with X431

Make	Advantages on Coverage of Models	Advantages on Coverage of Functions	Advantages on Programming and Coding	Advantages on Coverage of Intelligent Diagnostics	Advantages on Auto Scan Speed	Advantages on Topology
Renault	Ultra supports Trafic III ph2 and Kangoo III, which are not supported by competitors.	The coverage rate of special functions is higher than that of competitors.	Online coding function is ahead of that of competing products. (The function of competing products is fake and cannot be used.)	Ultra supports the DTC recommendation function for all models.	Supports Auto Scan 2.0 with average scan time 15 s, which is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.
Porsche	The model coverage is the same. Both support models up to 2023.	Supports more special functions than competing products. (For example, Ready Status, and Adaptations for Digital Motor Electronics (DME) of Panamera 971. And Transfer Box Oil Service function for 4WD system of Macan.)	Supports automatic programming (MaxiSys Ultra), while competing products support manual programming of some systems. Coverage of online function is ahead of that of competing products. (For example, Autael device supports part numbers of many systems for 911 (992), while competing products do not support.)	Not supported by Autel and competing products	Auto scan speed is almost on par with that of the competing products but with slight advantages.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.
OPEL	1. Supports more models (2021, with old structure) than competing products: Crossland X, Grandland X, Insignia-B, Astra-K, and Movano-B. 2. Supports more models (2023, with new structure) than competing products：Rocks-e、ASTRA、Grandland、MOVANO，the competing products only support up to 2019	Coverage of special functions is ahead of that of competing products.	Not supported by Autel and competing products	Not supported by Autel and competing products	Auto scan speed is almost on par with that of the competing products but with slight advantages.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.
Volvo	Ultra supports models up to 2023, while competitors only support models up to 2022. (Using 2021 models to diagnose corresponding 2022 models)	Ultra supports functions (Erase Codes, Oil Reset, etc.) for models equipped with VGM gateway. Competitors cannot unlock the VGM gateway to perform corresponding functions.	Not supported by Autel and competing products	Ultra supports the DTC recommendation function for 3516 trouble codes, which is not supported by competitors.	Auto scan speed is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.

Advantages on Global Important Makes (Japan and South Korean Makes) Compared with X431

Make	Advantages on Coverage of Models	Advantages on Coverage of Functions	Advantages on Programming and Coding	Advantages on Coverage of Intelligent Diagnostics	Advantages on Auto Scan Speed	Advantages on Topology
Toyota	Ultra supports more models than competitors: PRIUS PHEV, LEVIN HEV, INNOVA HEV/KIJANG INNOVA HEV, UX250h 2024, Yaris 2023, bZ4X 2023, Corolla Cross HEV 2023, RZ450e 2023, which are not supported by competitors.	Coverage of special functions is 18% ahead of that of competing products. For example, supports special functions including Vehicle Control History (RoB), Reduce Hydrogen Gas Pressure, Wireless Code Clearing, and All Keys Erasure.	Not supported by Autel and competing products	Ultra supports DTC recommendation function for over 1500 DTCs, which is not supported by competitors.	Supports Auto Scan 2.0 with average scan time 20s, which is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.
Nissan	1. Ultra supports 20 more models of 2023 than competitors: Almera, Altima, Armada, Sylphy e-power, Frontier, Infiniti QX50, Infiniti QX80, Kicks, Leaf, Nissan Magnite, Note e-power/Aura, NP300 Navara, Qashqai, Qashqai/Rogue Sport, Rogue, Roox, Sentra, Sunny, Sylphy, Versa sedan; 2. Ultra supports 34 more models of 2022 than competitors: Altima, Rogue, X-trail, Leaf, KICKS, Infiniti Q50, Infiniti QX50, Infiniti QX60, etc.	The coverage rate of special functions is 10% higher than that of competitors. For example, Ultra supports idling air volume learning, fuel injector replacement, brake lining replacement, maintenance regeneration and other special functions for 2023 models, which are not supported by competitors.	1. Supports 9 programming formats, namely 4 more programming formats than competing products. 2. Supports backup and restoration for all systems, while competing products do not support. 3. Supports programming and coding for models up to October 2022, while competing products support programming and coding for models up to July 2022.	Ultra supports DTC recommendation function for over 3000 DTCs. DTC recommendation function not supported by competing products	Supports Auto Scan 2.0 with average scan time 20s, which is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.
Honda	Supports 1 more model (2023) than competing products: Odyssey Hybrid.	1. Supports 4 more systems than competing products: SFD, Ignition Control Module (ICM), PADAS, and CAN Gateway (for Security). 2. Coverage of special functions is 15% ahead of that of competing products. For example, supports special functions including ES Electric Water Pump Test, ES Coolant Air Bleeding, A/C Refrigerant Electric Expansion Valve Test, and A/C Refrigerant Shut-off Valve Test.	Not supported by Autel and competing products	Not supported by Autel and competing products	Supports Auto Scan 2.0 with average scan time 60 s, while competing products do not support.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.

Advantages on Global Important Makes (Japan and South Korean Makes) Compared with X431

Make	Advantages on Coverage of Models	Advantages on Coverage of Functions	Advantages on Programming and Coding	Advantages on Coverage of Intelligent Diagnostics	Advantages on Auto Scan Speed	Advantages on Topology
Honda	Supports 1 more model (2023) than competing products: Odyssey Hybrid.	1. Supports 4 more systems than competing products: SFD, Ignition Control Module (ICM), PADAS, and CAN Gateway (for Security). 2. Coverage of special functions is 15% ahead of that of competing products. For example, supports special functions including ES Electric Water Pump Test, ES Coolant Air Bleeding, A/C Refrigerant Electric Expansion Valve Test, and A/C Refrigerant Shut-off Valve Test.	Not supported by Autel and competing products	Not supported by Autel and competing products	Supports Auto Scan 2.0 with average scan time 60 s, while competing products do not support.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.
Hyundai&KIA	Supports more models than competing products: all models (2023) of Beijing Hyundai and Yueda Kia, and 80 models (2023) in total of Kia Europe and Kia USA.	Coverage of special functions is ahead of that of competing products, and supports 98% special functions for models up to 2023.	Supports programming for models of Beijing Hyundai, Yueda Kia, Hyundai Europe, Hyundai USA, Kia Europe. Coverage of programming is ahead of that of competing products.	Ultra supports DTC recommendation function for 3000 DTCs for models in USA. DTC recommendation function not supported by competing products	Supports Auto Scan 2.0 and scan speed is almost on par with that of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.
Subaru	Supports 6 more models than competing products: Sambar/Dias Wagon, Chiffon, Justy, Stella, Pleo, and Lucra.	Coverage of special functions is 40% ahead of that of competing products.	Programming and coding are on par with those of competing products.	Not supported by Autel and competing products	Auto scan speed is almost on par with that of the competing products but with slight advantages.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.

Advantages on Important Makes (Chinese Makes) Compared with X431

Make	Advantages on Coverage of Models	Advantages on Coverage of Functions	Advantages on Programming and Coding	Advantages on Coverage of Intelligent Diagnostics	Advantages on Auto Scan Speed	Advantages on Topology
Changan	Ultra supports 15 more models than competitors: UNIV basic version, new EADO EV (lithium iron phosphate), UNIV2.0T, UNIV iDD, UNIK iDD, 2022 UNIT top configuration, second-generation UNIT, CS95Plus, CS35Plus2023, Lamore, Lantuozhe, Ruicheng Plus, 2021 EADO Plus, DEEPAL SL03, and DEEPAL SL03 high-end smart driving.	The coverage rate of special functions is 13.2% higher than that of competitors. Ultra supports basic functions and special functions for 15 models including UNIV basic version, new EADO EV (lithium iron phosphate), and UNIV2.0T, which are not supported by competitors.	Not supported by Autel and competing products	Supports Intelligent Diagnostics function for over 84930 DTCs, which is ahead of competing products.	Supports multi-channel scan and scan speed is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.
FAW	Ultra supports models up to 2023; Ultra supports Hongqi H6 models, which is not supported by competitors.	Coverage of special functions is 8% ahead of that of competing products. For example, supports special functions including ACM self-learning, SAS calibration, delete and add keys, and TPMS self-learning for LS7.	Not supported by Autel and competing products	Not supported by Autel and competing products	Supports multi-channel scan and scan speed is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.
Geely	Ultra supports 8 more models than competitors: Emgrand L Hi・P Hybrid, Xiongmao mini, Geometry M6, Geometry G6, Geometry E, Haoyue L, Emgrand EV PRO 2022, Xingyue L, Boyue L.	The coverage rate of special functions is 5% higher than that of competitors.	Programming and coding are on par with those of competing products.	Not supported by Autel and competing products	Supports multi-channel scan and scan speed is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.
Chery	Supports more models than competing products: Exeed Yaoguang, etc.	Coverage of special functions is 6% ahead of that of competing products. For example, supports special functions including Replace Brake Pads, TPMS, Brake Bleed, Oil Reset, and Immo & Keys for Omoda and Tiggo 8 Pro.	Not supported by Autel and competing products	Not supported by Autel and competing products	Supports multi-channel scan and scan speed is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.

Advantages on Important Makes (Chinese Makes) Compared with X431

Make	Advantages on Coverage of Models	Advantages on Coverage of Functions	Advantages on Programming and Coding	Advantages on Coverage of Intelligent Diagnostics	Advantages on Auto Scan Speed	Advantages on Topology
GAC Motor	Supports 3 more models than competing products: Empow Hybrid, all-new generation GS3 Yingsu, and Toyota iA5.	Coverage of special function is 20% ahead of that of competing products. Supports special functions including Personalized Setting, Replace ECU, Smart Key Learning, and Replace Brake Pads for GS4 (2022).	Coverage of systems is ahead of that of competing products.	Not supported by Autel and competing products	Supports multi-channel scan and scan speed is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.
SGMW & Baojun	Supports 22 more models than competing products: RS5 (2021), Wuling Xingchi (2021), Wuling Asta (2021), Nano EV (2021), RS3-SOODA (2022), MINI EV Gameboy (2022), PN, Chevrolet Spark, Wuling Rongguang S (2022), New Wuling Rongguang Pickup (2022), Wuling Hongguang V (2022), E300 Plus (Kiwi EV) (2022), Wuling Asta Hybrid, Wuling Jiachen, Mini EV Cabrio, Wuling Honguang Plus (2022), Wuling Victory (2022), Wuling Victory HEV (2022), Wuling Zhengcheng (2022), Wuling Asta (2022), Wuling Air EV (Qingkong) (2022), Wuling Hongguang S EV (2020), ect.	Supports more basic functions and special functions, as well as better topology than competing products.	Not supported by Autel and competing products	Not supported by Autel and competing products	Supports multi-channel scan and scan speed is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.
BYD	Supports more models than competing products: DM-i 242km/Han DM-p, and Frigate 07, BYD Seagull, BYD Dolphin 2023	Coverage of special functions is ahead of competing products.	Not supported by Autel and competing products	Not supported by Autel and competing products	Supports multi-channel scan and scan speed is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.

Advantages on Important Makes (Chinese Makes) Compared with X431

Make	Advantages on Coverage of Models	Advantages on Coverage of Functions	Advantages on Programming and Coding	Advantages on Coverage of Intelligent Diagnostics	Advantages on Auto Scan Speed	Advantages on Topology
Roewe & MG	1. Coverage of Roewe models is on par with that of the competing products. 2. Supports more MG models than competing products: Feifan R7.	Support the basic functions and service functions of 2021~2023 models, and coverage of special functions is on par with that of competing products.	Coverage of models for online programming functions is ahead of that of competing products.	Not supported by Autel and competing products	Supports multi-channel scan and scan speed is ahead of that of competing products.	Supports professional topology to show the real topological structure of the vehicle, while competing products classify the systems/modules according to protocols.
Saicmaxus	Ultra supports 10 more models than competitors: eDeliver3, EUNIQ7, T90 (with Internet of Vehicles), T90 (without Internet of Vehicles), T90-EV, G50 PLUS, RV63, G90, EG50, MIFA9.	Ultra supports the automatic selection of vehicles, and Ultra supports freeze frame function for basic function items, which are not supported by competitors.	Not supported by Autel and competing products	Not supported by Autel and competing products	Auto scan speed is almost on par with that of the competing products	Almost on par with that of the competing products

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