

Image Sensor	Uncooled VOx Microbolometer
Lens	FOV: 61° Focal length: 9.1 mm Aperture: F1.0 Focusing distance: 2.2 m ~ ∞
Sensitivity	≤50mK@F1.0, 25°C
Pixel Pitch	12um
Wavelength	8-14um
Radiometric Measurement Method	Center temperature measurement/Pot temperature measurement/Area temperature measurement
Radiometric Temperature Range	-20°C to 150°C (high gain mode); 0 to 550°C (low gain mode)
Radiometric Measurement Accuracy	±2°C or reading ±2% (using the larger value) @ ambient temperature ranges from -20°C to 60°C
Accurate Temperature Measurement Distance	1 ~ 25 m
Digital Zoom	1-16x digital zoom and link zoom is supported
Temperature Alert	In area temperature measurement, high and low temperature alarm thresholds, reporting coordinates and temperature values are supported
Palette	White Hot/Black Hot/Ironbow/ Rainbow 1/Rainbow 2/Ironbow/Lava/Arctic/Medical/Tint
Photo Size	640×512
Photo Format	JPG (the images contain temperature information and are parsed by dedicated SDK and PC tools)
Video Resolution	640×512 P30
Video Format	MP4
<b>Laser Rangefinder</b>	
Wavelength	905 nm
Measurement Accuracy	± (1 m + D×0.15%) where D is the distance to a vertical reflecting plane
Measuring Range	5 - 1200 m

Gimbal	
Mechanical Range	Pitch: -135° to 45° Roll: -50° to 50° Yaw: -45° to 45°
Controllable Range	Pitch: -90° to 30°
Stability System	3-axis mechanical gimbal (pitch, roll, yaw)
Max Control Speed (Pitch)	100°/s
Angular Vibration Range	<0.005°

### A.2.3 Fusion 4T XE

Zoom Camera	
Image Sensor	1/2" CMOS. Effective pixels: 48M
Lens	DFOV: 40°-10.3° Focal length: 11.8 - 43.3 mm 35 mm equivalent focal length: 64 - 234 mm Aperture: F2.8 - F4.8 AF Motor: PDAF+CDAF Focusing distance: 2 m ~ ∞
ISO Range	Auto: ISO100 – ISO6400 Manual: ISO100 - ISO6400
Shutter Speed	Shooting: 8s ~ 1/10000s Recording: 1/30s ~ 1/10000s
Digital Zoom	2.7 - 10x continuous optical zoom, 20x hybrid zoom and 160x digital zoom; linked zoom
Photo Size	JPG: 4000×3000, 8000×6000 DNG: 4000×3000
Video Resolution	4000×3000 P30
Video Format	MP4
Video Encoding	H.264/H.265
Supported File Systems	exFAT/FAT32
Wide Angle Camera	

Image Sensor	1/2" CMOS. Effective pixels: 48M
Lens	DFOV: 83.4° Focal length: 4.49 mm Equivalent focal length: 24 mm Aperture: F2.8 AF motor: FF Focusing distance: 1.5 m ~ ∞
ISO Range	Auto/Manual: ISO100 - ISO6400 Night Mode: ISO100 – ISO32000 (auto)
Shutter Speed	Shooting: 8s ~ 1/10000s Recording: 1/30s ~ 1/10000s
Photo Size	JPG: 4000×3000, 8192×6144 DNG: 4096×3072
Video Resolution	4000×3000 P30 Nighttime: 2400×1800 P30
Video Format	MP4
Video Encoding	H.264/H.265
Supported File Systems	exFAT/FAT32
<b>Infrared Thermal Imaging Camera</b>	
Image Sensor	Uncooled VOx Microbolometer
Lens	FOV: 61° Focal length: 9.1 mm Aperture: F1.0 Focusing distance: 2.2 m ~ ∞
Sensitivity	≤50mK@F1.0, 25°C
Pixel Pitch	12um
Wavelength	8 - 14um
Radiometric Measurement Method	Center temperature measurement/Pot temperature measurement/Area temperature measurement
Radiometric Temperature Range	-20°C to 150°C (high gain mode); 0 to 550°C (low gain mode)
Radiometric Measurement Accuracy	±2°C or reading ±2% (using the larger value) @ ambient temperature ranges from -20°C to 60°C

Accurate Temperature Measurement Distance	5 m
Digital Zoom	1-16x digital zoom, and link zoom supported
Temperature Alert	In area temperature measurement, high and low temperature alarm thresholds, reporting coordinates and temperature values are supported
Palette	White Hot/Black Hot/Ironbow/Rainbow 1/Rainbow 2/Lava/Arctic/Ironbow/Medical/Tint
Photo Size	640×512
Photo Format	JPG (the images contain temperature information and are parsed by dedicated SDK and PC tools)
Video Resolution	640×512 P30
Video Format	MP4
<b>Laser Rangefinder</b>	
Wavelength	905 nm
Measurement Accuracy	$\pm (1 \text{ m} + D \times 0.15\%)$ where D is the distance to a vertical reflecting plane
Measuring Range	5 - 1200 m
<b>Gimbal</b>	
Mechanical Range	Pitch: -135° to 45° Roll: -45° to 45° Yaw: -45° to 45°
Controllable Range	Pitch: -90° to 30°
Stability System	3-axis mechanical gimbal (pitch, roll, yaw)
Max Control Speed (Pitch)	100°/s
Angular Vibration Range	<0.005°

### A.3 Remote Controller

#### Autel Smart Controller V3

Material	PC+ABS
Dimensions	269×189×87 mm (antennas folded, sticks and bracket included) 269×189×173 mm (antennas vertical to screen, sticks and bracket included) 269×302×87 mm (antennas unfolded, sticks and bracket included)
Weight	1194 g (protective case excluded) 1365 g (protective case included)
Operating Temperature	-20°C to 40°C
Storage Temperature	+15°C ~ +25°C (within a year) 0°C ~ +30°C (within three months) -20°C ~ +45°C (within a month)
Protection Rating	IP43
Internal Storage	128GB
microSD Extension	Not supported
Operating System	Based on Android 11
Application Installation	Supports the installation of third-party Android apps
Video Performance	4K@24FPS H.264/H.265 video smooth play
HDMI	Outputs up to 1080P@60FPS video
USB-C	Charging: supports PD 60W fast charging and QC 18W fast charging. Data: USB3.1 Gen2
USB-A	Charging: 5V/2A Data: USB2.0
GNSS	GPS+Galileo+BDS+GLONASS
Wi-Fi Protocol	802.11a/b/g/n/ac
Wi-Fi Operating Frequency	2.4G: 2.400–2.476GHz*, 2.400–2.4835GHz 5.8G: 5.725–5.829GHz*, 5.725–5.850GHz *Only applies to SRRC region Note: Some frequencies are only applicable in some regions or only used in door. For details, please refer to local laws and regulations.
Wi-Fi Effective Isotropic	2.4G:

Radiated Power (EIRP)	$\leq 30\text{dBm}$ (FCC/ISED); $\leq 20\text{dBm}$ (CE/SRRC/UKCA) 5.8G: $\leq 30\text{dBm}$ (FCC/ISED/SRRC); $\leq 14\text{dBm}$ (CE/UKCA)
Bluetooth	Bluetooth 5.0
Bluetooth Operating Frequency	2.400 - 2.4835 GHz Note: In some regions, frequency range is specified. For details, please refer to local laws and regulations
Bluetooth Effective Isotropic Radiated Power (EIRP)	$\leq 20\text{dBm}$
<b>Image Transmission</b>	
Antenna	Dual antennas, 1T2R, detachable design
Operating Frequency	900M: 902-928MHz* 2.4G: 2.400-2.476GHz**, 2.400-2.4835GHz 5.8G: 5.725-5.829GHz**, 5.725-5.850GHz * Only applicable to FCC and ISED regions. ** Only applicable to SRRC region. Note: Some frequencies are only applicable in some regions or only used in door. For details, please refer to local laws and regulations.
Effective Isotropic Radiated Power (EIRP)	900M: $\leq 30\text{dBm}$ (FCC/ISED) 2.4G: $\leq 30\text{dBm}$ (FCC/ISED); $\leq 20\text{dBm}$ (CE/SRRC/UKCA) 5.8G: $\leq 30\text{dBm}$ (FCC/ISED/SRRC); $\leq 14\text{dBm}$ (CE/UKCA)
Maximum Transmission Distance (Without Interference and Blocking)	FCC: 15 km CE/SRRC: 8 km
<b>Display</b>	
Type	TFT LCD
Dimensions	7.9 inches
Maximum Brightness	2000 nits
Resolution	2048×1536
Refresh Rate	60Hz

Touch Control	Supports 10-point touch
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Battery	
Battery Type	Li-Po 3S
Rated Capacity	5800 mAh
Voltage	11.55V
Battery Energy	67 Wh
Charging Time	About 120 minutes
Battery Endurance	2.5 hours (Max brightness) 4.0 hours (50% brightness)
Battery Replacement	Not supported

## A.4 Smart Battery

ABX40 Smart Battery (Original model: MDX_8070_1488)	
Battery Dimension	158.4×74.3×50.7 mm
Operating Temperature	-20°C to 50°C
Battery Type	Li-Po 4S
Rated Capacity	8070mAh
Battery Energy	120Wh
Voltage	14.88V
Charging Voltage Limit	17.0V
Rated Charging Power	120W
Maximum Charging Power	247W
Weight	520 g
Battery Charge Temperature	+5°C ~ +45°C* (When the battery temperature is below +5°C, the battery stops charging and activates self-heating. When the battery temperature is above +45°C, the battery stops charging.)

ABX41 Smart Battery	
Battery Dimension	158.4×74.3×50.7 mm
Operating Temperature	-20°C to 50°C
Battery Type	Li-Po 4S
Rated Capacity	9248mAh
Battery Energy	136.5Wh
Voltage	14.76V
Charging Voltage Limit	17.0V
Rated Charging Power	157W
Maximum Charging Power	282W
Weight	533 g
Battery Charge Temperature	+5°C ~ +45°C* (When the battery temperature is below +5°C, the battery stops charging and activates self-heating. When the battery temperature is above +45°C, the battery stops charging.)
Battery Storage	
Ideal Storage Environment	+22°C ~ +28°C
Storage Temperature and Humidity	-20°C~+35°C, 65±20%RH
Battery Charger MDX120W	
Power Input	100-240V~ 50/60Hz, 3.0A
Output Port	Battery charging interface/USB-C
Battery Charging Interface	17V=7.06A
USB-C Charging Interface	5.0V=3.0A, 9.0V=3.0A, 12.0V=2.5A
Total Power Output	120.0W Max



## Appendix B Declaration of Conformity

**Product:** EVO Max 4T, EVO Max 4N, EVO Max 4T XE  
**Model Number:** MDX  
**Class:** C2  
**Sound power level:** 87dB(A)  
**Manufacturer's Name:** Autel Robotics Co., Ltd.  
**Manufacturer's Address:** 601,701,801,901, Block B1, Nanshan iPark, No. 1001 Xueyuan Avenue, Nanshan District, Shenzhen, Guangdong, China

We, *Autel Robotics Co., Ltd.*, declare under our sole responsibility that the above referenced product is in conformity with the applicable requirements of the following directives:

**RED Directive:** 2014/53/EU  
**RoHS Recast Directive:** 2011/65/EU  
**UAS Delegated Regulation:** 2019/945/EU 2020/1058/EU  
**Machinery Directive:** Annex I 2006/42/CE

Conformity with these directives has been assessed for this product by demonstrating compliance to the following harmonized standards and/or regulations:

<b>Safety</b>	EN IEC 62368-1:2020+A11:2020
<b>EMC</b>	ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-3 V2.3.2 (2023-01) ETSI EN 301 489-17 V3.2.4 (2020-09) ETSI EN 301 489-19 V2.2.1 (2022-09) EN 55032:2015+A11:2020+A1:2020 EN 55035:2017+A11:2020 EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A1:2019+A2:2021
<b>Radio</b>	ETSI EN 300 328 V2.2.2 (2019-07) ETSI EN 301 893 V2.1.1 (2017-05) ETSI EN 300 440 V2.2.1 (2018-07) ETSI EN 303 413 V1.2.1 (2021-04) ETSI EN 303 213-5-1 V1.1.1 (2020-03) ETSI EN 305 550-1 V1.2.1 (2014-10) ETSI EN 305 550-2 V1.2.1 (2014-10)
<b>Health</b>	EN IEC 62311:2020 EN 50665:2017
<b>RoHS</b>	2011/65/EU
<b>UAS Delegated Regulation</b>	prEN 4709-001: 2023 prEN 4709-002: 2023 Edition P 1

	prEN 4709-003: 2023 Edition P 1 prEN 4709-004: 2023 Edition P 1
<b>Machinery Directive</b>	EN ISO 12100

The notified body, *Bay Area Compliance Labs Corp*, notified body number: 1313, performed the EU-type examination in according with EMC Directive 2014/30/EU and Annex III, Module B of Council Directive 2014/53/EU, and issued the EU-type examination certificate: AOC SZ1221107-51889E-02 & B2302226.

The notified body, *LGAI Technological Center S.A./Applus*, notified body number: 0370, performed the EU-type examination in according with Annex Part 8, Module B of Regulation (EU) 2019/945, and issued the EU-type examination certificate: 0370-UAS-0008.

Signed for and on behalf of: *Autel Robotics Co., Ltd.*  
 Place: Shenzhen, China                      Date: 2024-09-12  
 Name: Cheng Zhuanpeng                      Position: Legal Representative

Signature: *Cheng Zhuanpeng*

**Annex I**

Product Mix. Description	Model	SW version	Description	Serial Number
EVO Max 4T	MDX	V1.8.2.237	Quad copter equipped with a 4T Gimbal	1748FEV3HMA923XXXXXX
EVO Max 4N	MDX	V1.8.2.237	Quad copter equipped with a 4N Gimbal	1748FEV3HMA923XXXXXX
EVO Max 4T XE	MDX	V1.8.2.237	Quad copter equipped with a 4T XE Gimbal	1748FEV3HMA923XXXXXX
Battery	MDX_8070_1488	/	Drone Battery	1748CBE46232515XX
Battery	ABX40	/	Drone Battery	1748CBE46232515XX
Battery	ABX41	/	Drone Battery	1748CBE46232515XX
Remote Controller	EF9-3	V1.8.2.237	Drone Remote Controller	TH79232XXXXXX
Adapter	MDX120W	/	Drone Adapter	/

\*Note: Updated software will be released by manufacturer to fix bugs and improve the performance after the product placed on the market. All updated versions released by the manufacturer have been verified to be complied with the applicable regulations. All RF parameters (e.g., RF power, frequency) are not accessible to end users and cannot be changed by any third parties. Conformity of the product with EU requirements is ensured by evaluating the GNSS signals. The radio parameters are automatically set according to the detected region, the user does not have the capability to change these settings.

