

AUTEL
ROBOTICS

EVO II RTK Series V3

Unrivalled Accuracy And Control

AUTEL
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www.autelrobotics.com



Centimeter-Level Positioning

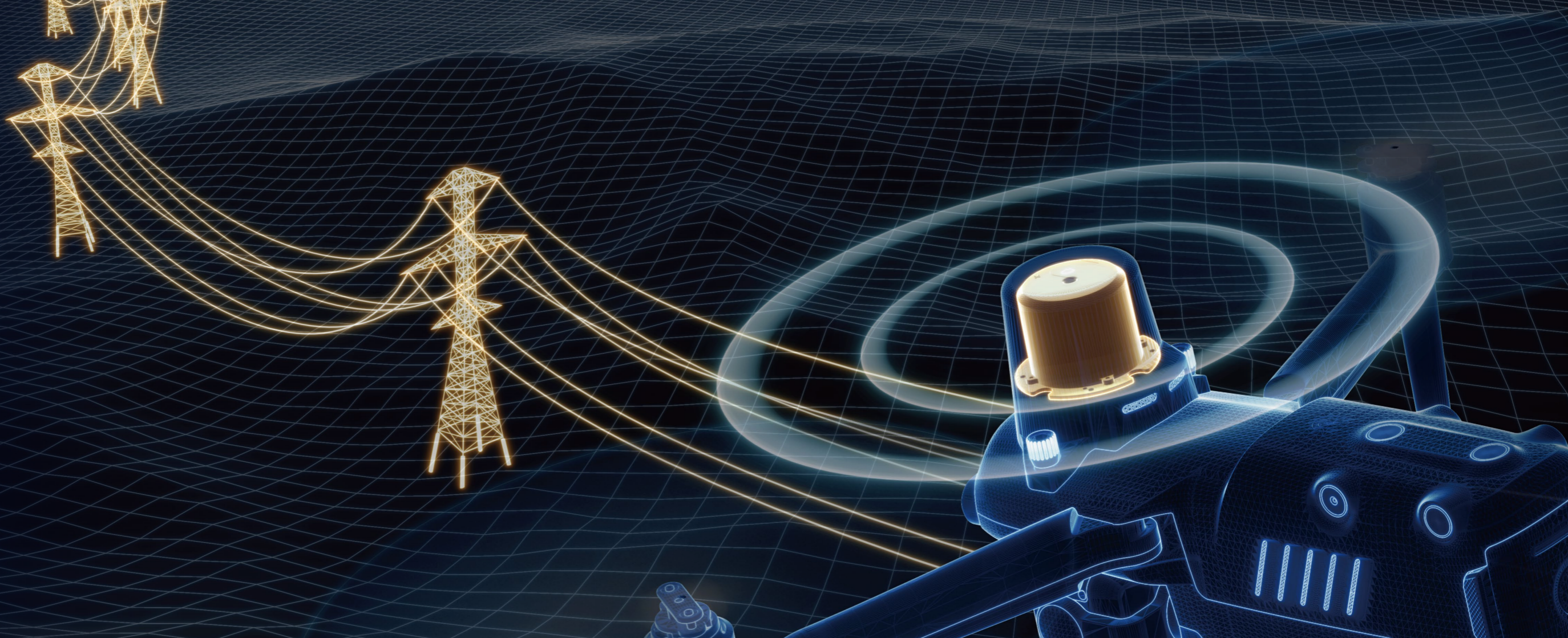
The EVO II RTK Series V3 introduces a brand-new RTK module, which provides real-time centimeter-level positioning data, and supports Post-Processing Kinematic (PPK). The aircraft can record the original satellite observation data, camera exposure parameters and more. The positioning system supports an RTK base station and NTRIP RTK network, which help to achieve accurate and stable data acquisition in complex operation environments.



RTK Horizontal Positioning
Accuracy: 1cm+1ppm



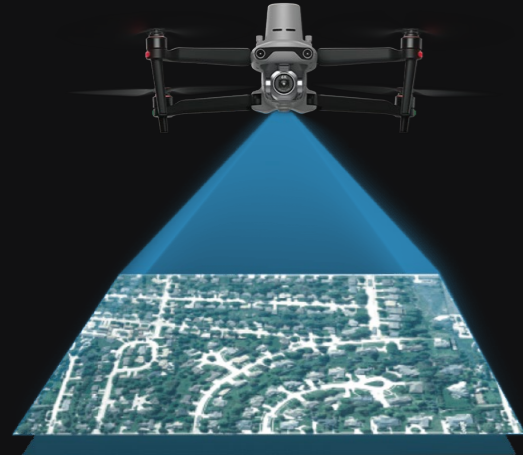
RTK Vertical Positioning
Accuracy: 1.5cm+1ppm



Autel Explorer For Mapping

No GCP Required

EVO II RTK Series V3 can connect to an NTRIP network and does not need GCPs to provide centimeter-grade accuracy.



3rd Party Base Station Support

EVO II RTK Series V3 supports all NTRIP-compatible base stations.



Multi-NTRIP Profile Saving

The EVO II RTK Series V3 returns to where it left off in multi-battery missions without starting from the beginning.



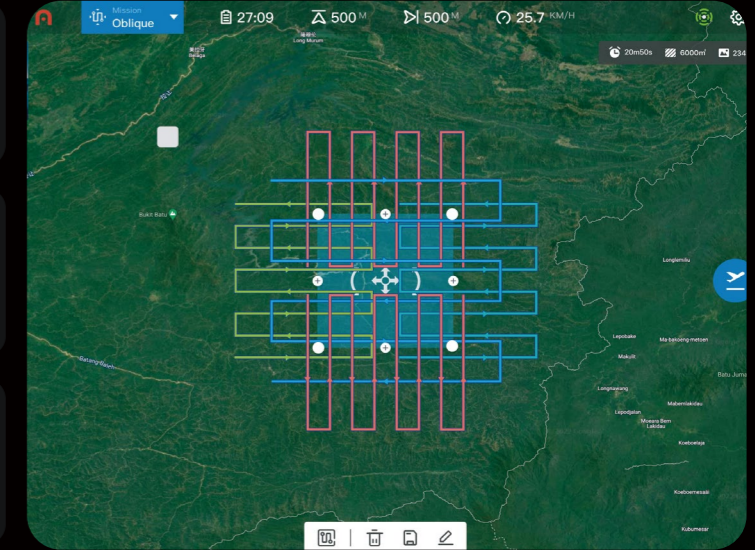
Photo Replication

For repeatable missions, you can record the drone's previous shooting parameters. The gimbal, camera, and movement settings will be replicated, allowing missions to be easily duplicated.



Multi-Battery Missions

The Explorer App allows the user to create and save multiple NTRIP profiles for different locations, so they don't have to manually input new a flight plan for every new location.



Robust Partnerships



Advanced Feature Sets



Create Rectangular or Polygon Missions



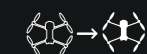
Supports Double Grid Mapping for additional angles



Have complete manual control over camera settings



Non-stop turning on corners saves time and battery life



Customizable course headings to meet orientation requirements



1"
sensor

6K
ULTRA HD

EVO II Pro RTK V3

Capture Every Detail

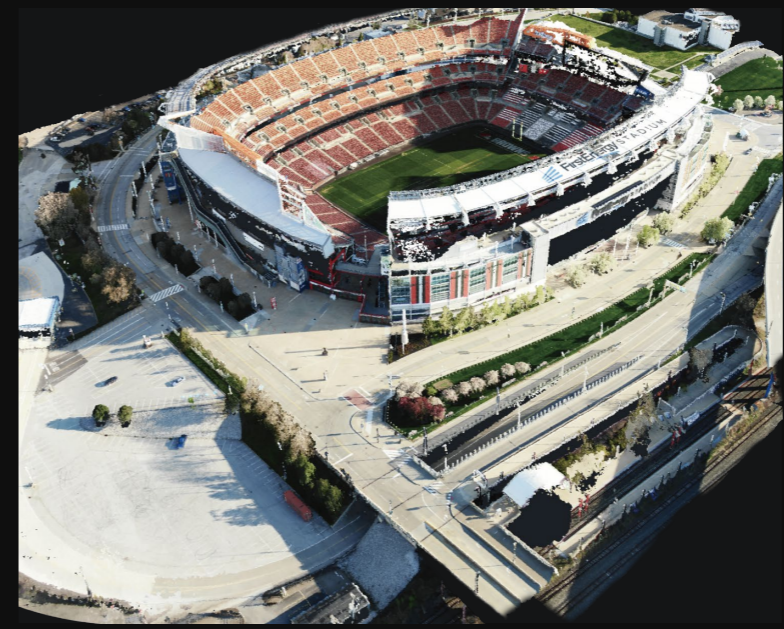
EVO II Pro RTK V3 has high dynamic range and powerful low light performance, enabling users to capture clear detail sets with minimal distortion and noise.

1-Inch Ultra-Sensitive Sensor

The EVO II Pro RTK V3 comes with a NEW updated 1-inch 6K CMOS image sensor with a maximum of 20 megapixels. Thanks to the ultra-sensitive algorithm, you can still shoot clean, detailed, low-noise data sets under twilight or night conditions.

F2.8~F11 Adjustable Aperture

Adapt to lighting changes by adjusting the lens aperture size, giving the pilot more shutter speed control.



Optimized For Software Image Correction

EVO II Pro RTK V3 has optimized its datasets to be easily adjusted with post processing software applications.



Zoom In For The Details

EVO II Pro RTK V3 has optimized its datasets to be easily adjusted with post processing software applications.

EVO II Dual 640T RTK V3

Dual Cameras, Accurate Temperature Measurement

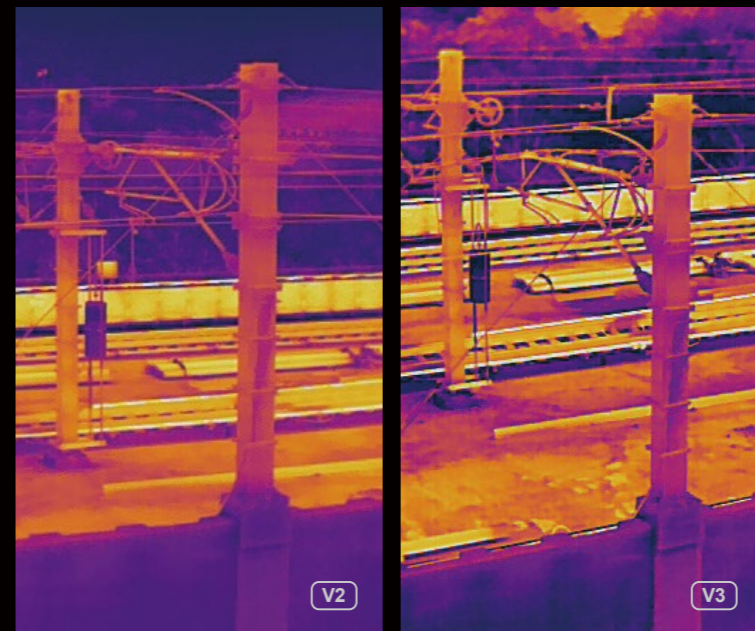
The EVO II Dual 640T RTK V3 is equipped with a high-resolution thermal imaging camera and an all new Sony .8" 50 megapixel RYYB sensor.

High-Resolution Thermal Imaging Sensor

Equipped with a 640x512 high-resolution thermal imaging camera featuring a 13mm focal length lens and 16x digital zoom, it is easy to observe distant targets. The system uses a new image processing algorithm, making thermal imaging details clearer and more discernible than the competition with the similar resolution and hardware.

Precise Temperature Measurement

The EVO II Dual 640T RTK V3 can accurately detect heat sources within a distance of 2-20 meters. By leveraging the compensation algorithm of infrared temperature measurement, the 640T RTK can regulate temperature deviations within 3 degrees Celsius.



New Image Processing Algorithm

The V3 system uses a brand new image processing algorithm, making thermal imaging details sharper and more discernible than competition with the similar resolution and hardware.



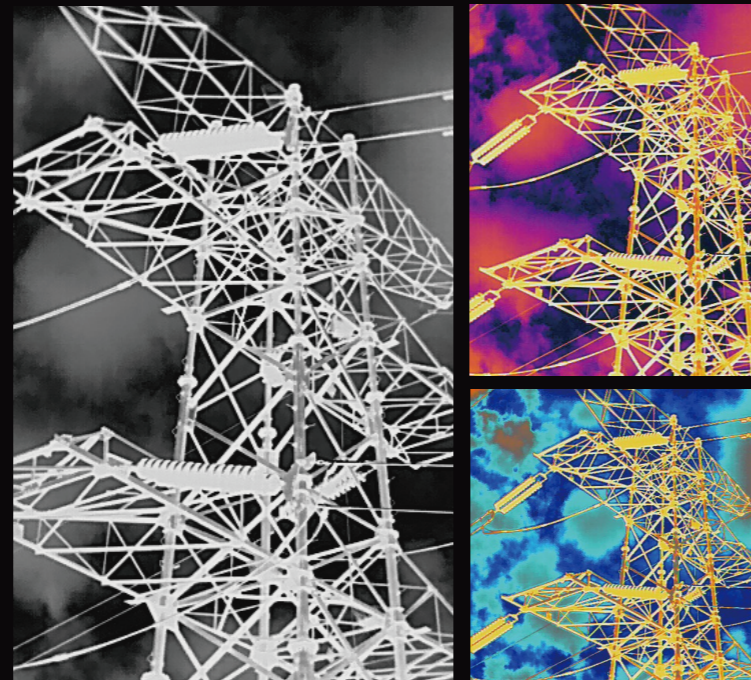
30hz Refresh Rate For Videogrammetry

The EVO II RTK Dual V3 provides high refresh rates for accurate and detailed 3D thermal maps.



Zoom In For The Details

Focus in on critical areas with the EVO II RTK V3's 4x lossless zoom and 16x digital zoom.



Multiple Color Palettes

White Hot | Cold and Hot | Rainbow | Enhanced Rainbow | Ironbow | Lava | Arctic | Searing | Gradation | Heat Detection



SkyLink 2.0 Video Transmission

EVO II RTK Series V3 is upgraded with Autel's all new SkyLink 2.0 Video Transmission technology.

15KM

Fly farther with HD video transmission up to 15km.

QHD

Get on-screen QHD video within 1km. Obtain critical details with a resolution of 2560 x 1440 for a total of 3,686,400 pixels—about 1.8x the pixels of an FHD

2.4G/5.8G/900MHz

Support tri-band communication and automatically frequency hop for maximum anti-interference capability.

*900MHz is only applicable for FCC countries.



360° Obstacle Avoidance

Equipped with 19 groups of sensors including 12 visual sensors, the main camera, ultrasound, IMUs and other sensors enable building of three-dimensional maps and path planning in real time.



*Please refer to the manual for details on obstacle avoidance and its limitations, which may or may not work in limited lighting environments, under direct strong sunlight, or across thin tree branches or wires.

Portable And Easy To Use



Compact Design

The EVO II RTK Series V3 folds up for ease of transport and deployment.



Trouble Free Daily Workflows

The EVO II RTK Series V3 takes 45 seconds from launch to takeoff without fuss.



Safe And Sturdy



27mph Max Wind Resistance

EVO II's Smaller Cross Section and powerful motors allows greater stability and control in all windy conditions.



36 Minutes Flight Time

Enjoy up to 36 minutes of flight time - 20%~30% more than the next leading competitor for more area coverage and longer missions.



No Fly Zones*

EVO II RTK Series V3 does not have any no fly zones and will not prevent the pilot from taking off.



No Forced Updates**

EVO II RTK Series V3 does not need to be on the latest hardware or app version in order to take off unlike other competitors.

Autel Smart Controller V3

Smart Controller V3's 7.9-inch, 2000nits high-brightness screen is clearly visible even under direct sunlight. SkyLink 2.0 Transmission technology guarantees long-distance operations from up to 15km away and enhances anti-interference abilities with triple band frequency hopping. The customized Android system allows for additional flexibility with 3rd party Apps and an IP43 rating ensures all weather performance.



15km Transmission Range



Maximum 2000nits Brightness



4.5 Operating Hours



IP43 Resistance



* Please fly safely and consult your local laws and regulations. Autel Robotics is not liable for any unauthorized flights.

** It's required to update the latest firmware and app to enjoy comprehensive warranty. More information please refer to warranty policy.

Broadcast With Live Deck 2

Broadcast live mission intel to other personnel in the operation for enhanced situational awareness and critical decision making. The EVO II Dual 640T V3 is compatible with Live Deck 2, which offers multiport streaming to monitors and Wifi support for multiple smart phones.



1080P Video Stream



Three Auto-Switch Bands



12KM Transmission Range

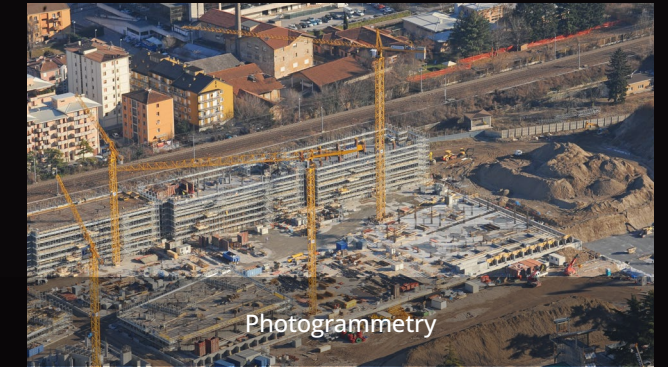


IP43 Resistance

Applications



Powerline Inspection



Photogrammetry



Law Enforcement



Firefighting

Specifications

Aircraft	
Weight (With Propeller and Battery)	2.75 lbs (1250g) EVO II DUAL 640T RTK V3 2.73 lbs (1237g) EVO II PRO RTK V3
Size	230x130x143 mm (folded) 457x558x143 mm (extended)
Max Flight Time	36 min
Operating Temperature Range	14-104°F (-10-40°C)
Wind Resistance	27mph, 12 m/s (Take-off and landing)
Hovering Accuracy	When RTK is enabled and works normally: Vertical: ± 0.1 m, Horizontal: ± 0.1 m RTK is not enabled: Vertical: ±0.1 m (visual positioning), ±0.5 m (GNSS) Horizontal: ±0.3 m (visual positioning), ±1.5 m (GNSS)
GNSS	GPS+BeiDou+Galileo (Asian Region) GPS+GLONASS+Galileo (Other Region)

EVO II Dual 640T RTK V3 Visual Camera	
Sensor	1/1.28"(0.8") CMOS; 50M effective pixels
Lens	FOV: 85° 35 mm format equivalent focal length: 23 mm Aperture: f/1.9 Focus range: 0.5 m to infinity (with auto focus)
Zoom	1-16x (up to 4x lossless zoom)

EVO II Dual 640T RTK V3 Thermal Camera	
Lens	FOV H33°V26° Focal length 13mm
Zoom	1-16x
Wavelength Range	8~14μm
Temperature Measurement Accuracy	±3°C or ±3% of reading (whichever is greater) @Environmental temperature-20°C~60°C

EVO II Pro RTK V3 Camera	
Sensor	1 inch CMOS; 20M pixels
Lens	Fov: 82° 35 mm format equivalent focal length: 29 mm Aperture: F/2.8 - F/11 Focus Range: 0.5 m To Infinity
ISO Range	Video: 100-44000 Photo: 100-6400
Zoom	1-16x (up to 3x lossless zoom)

RC and Image Transmission	
Max Transmission Distance (Unobstructed, Free of Interference)	FCC: 15km CE: 8km
Display Screen	2048x1536 60fps
Operating Time	~2 hours (max. brightness) ~4 hours (50% brightness)
Charging Time	90 minutes
Internal Storage	ROM 128GB