

1914 1999 2019

In 1914, one man played a major role in revolutionizing the world of photography. Many innovations later the company, whose success the developments of Oscar Barnack had made a major contribution to, stands like no other for absolute top quality and state-of-the-art camera technology „Made in Germany“: The Leica Camera AG.

In 1999, people all over the world had the dream of flying - also in China. And so the first remote-controlled electric aircraft was developed that anyone could easily launch, fly and land. Around 250 patents later, the resulting company stands for a transparent and flexible open source architecture with high security, reliability and intuitive operation of professional multicopter: Yuneec.

In 2019, Yuneec and Leica take a big, joint step together and bring the best of their respective worlds together to bring Leica photography to the skies - with the new Typhoon H3 and the ION L1 Pro camera co-engineered with Leica. For unlimited perspectives and new, creative possibilities.



YUNEEC®



TYPHOON H3

CO-ENGINEERED WITH



The H3 has been specially developed for photographers and videographers who want to rediscover the world from above in a new look. Thanks to the use of high-quality materials and the implementation of a wide range of flight functions in combination with a 1" CMOS camera sensor, it offers you a sophisticated and perfectly coordinated overall system for you to realize your photographic ambitions.

The safe and reliable hexacopter design featuring 6 rotors remains stable in the air – even when it's windy outside.

Furthermore, with the aid of the stabilized 3-axis gimbal, you can take perfectly stabilized and sharp 20 MP photos and up to 4K videos at 60 frames per second.

With its reliable, PX4-based flight Controller, the Typhoon H3 isn't just particularly powerful – it's also very efficient. The system has been optimized to consume less energy without sacrificing any of its performance levels. The result is a potent, reliable, quiet and extremely precise hexacopter system.

ION L1 PRO

CO-ENGINEERED WITH 



New standards in aerial photography

User-defined image mode and focus settings, lossless digital zoom and superior image quality make the ION L1 Pro the camera of choice in its class for all aspects of aerial photography. The technical versatility of the camera offers you a wide range of options for your photographic journey – from auto exposure bracketing and semi-automatic image adjustments to wide dynamic range. With the integrated 3-axis gimbal and the drone's retractable landing gear, the camera is capable of an endless 360° pan rotation and produce flowing panoramic shots.



1" SENSOR
20MP / 4K60FPS



10 BIT
YLOG MODE



LEICA
CALIBRATED DNG



WIDE DYNAMIC
RANGE



AUTO EXPOSURE
BRACKETING



LOSSLESS
DIGITAL ZOOM

Outstanding image quality

The components of the H3 and the L1 Pro are precisely matched to one another and make it possible to take highly detailed, brilliant pictures from the air with the legendary Leica look. Thanks to the imaging modes optimized and calibrated by Leica, the ION L1 Pro leaves nothing to be desired in terms of vibrancy, contrast or resolution. Specially developed to Leica specifications, the 10-bit Y-Log or DNG profiles offer the best conditions for professional post-production thanks to state-of-the-art workflows (e.g. in ADOBE Lightroom or Photoshop).

KEY FEATURES

ION L1 PRO

- / Developed in cooperation with Leica Camera AG (co-engineered with LEICA)
- / 1" CMOS sensor, 20 MP, up to 4K @ 60 FPS, up to 100Mbit
- / Integrated 3-axis gimbal with unrestricted 360° view
- / Leica optimized and calibrated image modes (AWB, color reproduction, sharpening, de-noising, etc.)
- / Leica calibrated DNG with corresponding profiles
- / Lossless digital zoom
- / 10-bit YLog video mode based on Leica specifications
- / Semi-automatic ISO/shutter & 1/3 step setting of EV/ISO/shutter
- / Wide Dynamic Range (WDR)
- / Auto Exposure Bracketing (AEB)
- / Short JPEG intervals for hyperlapse videos
- / User-defined picture mode & sharpness settings
- / Professional histogram
- / Panorama shots



Potent hexacopter system

A quick-release mechanism lets you fit the propellers quickly and easily, after which the H3 is ready for use right away. The rotor arms of the Typhoon H3 can also be folded away to facilitate transportation. The complete system and its accessories can be transported in a hand luggage-sized backpack or in a protective case (both of which are optionally available). The two HV batteries included in the standard kit are changeable and rechargeable; each provides a good 25 minutes of flight time per charge.

Simply safe

The Typhoon H3 is equipped with numerous safety features such as a redundant control signal, a Return Home function, numerous failsafe functions and an adjustable virtual fence that ensures that the drone does not fly beyond a specified radius. If a rotor is damaged or fails, the Typhoon H3 automatically activates 5-rotor mode, so enabling it to be safely flown and landed with just 5 rotors. Built-in ultrasonic sensors allow the drone to detect obstacles and stop in front of them. The battery system has been improved to include an additional safety mechanism that indicates whether the battery is properly engaged.



Data security

The complete system is designed as a closed system. Due to the technical design, all communication takes place directly between the drone/camera and the ST16S remote control. Never is there a detour through a cloud solution. All of the data generated by the Typhoon H3 (photo, video and flight data) belongs exclusively to you at all times and can be saved, deleted or managed by the drone operator without any restrictions.



EASY TO FLY
EVERYTHING
INCLUDED



6 ROTOR
SAFETY AND
STABILITY



ADVANCED
PHOTO/VIDEO
FUNCTIONS



DATA
PRIVACY
BY DESIGN



PROFESSIONAL
GRADE IMAGE
QUALITY



TWO
OPERATOR
TEAM MODE



PROFESSIONAL
ST16S REMOTE
CONTROL



CAMERA
CO-ENGINEERED
WITH LEICA



Intelligent flight modes

Intelligent shooting modes allow you to capture impressive aerial images with preset camera flights. In the innovative Curve Cable Cam Mode you can fly the flight path (including camera orientation) in advance on a step-by-step basis. Then it can be permanently saved for quick and easy

subsequent flights at any time. In Follow Me/Watch Me Mode, the drone follows the pilot and can align the camera to him/her if desired. The classic circular flight (Orbit) and out-and-return flight (Journey) options are of course still available.



CURVE CABLE CAM

Fly an invisible flight path. The Typhoon H3 will fly along the plotted coordinates while the camera remains independently controllable.



ORBIT

The Typhoon H3 flies around you in a circular flight path at the desired distance and altitude. The camera always remains oriented toward you.



JOURNEY MODE

Depending on the desired setting, the multicopter ascends along a linear path and then automatically returns, for the perfect shot.



FOLLOW ME / WATCH ME

In Follow Me mode, the Typhoon H3 moves along with you. If the Watch Me function is activated, the camera always remains oriented toward you.

ST16S remote control

The intuitive, easy-to-use Android-based remote control gives you full control over the copter and camera. With a 7" touchscreen display built in to the ST16S remote control that shows the live camera image in 720p (HD), your subject is immediately in the viewfinder. You can also view real-time telemetry data and arrange your camera settings. The live image of the camera can also be transferred to an external monitor as desired via an HDMI port on the remote control. The image transmission distance reaches up to 1.6 km. You and a second pilot can use the Team Mode function to control the copter and camera separately, allowing you to concentrate fully as the photographer or videographer on capturing your images. All you require for this is a second ST16S remote control (sold separately).

KEY FEATURES

TYPHOON H3

- / Sturdy hexacopter with 6 rotors & up to 25 minutes flight time
- / Retractable landing gear
- / PX4-based flight controller
- / Cruise control for controlled shots
- / Intelligent auto flight modes: Follow Me, Orbit, Journey, Curve Cable Cam
- / Return Home and Auto Landing functions
- / Obstacle detection
- / 5-rotor mode activation in the event of rotor failure
- / Redundant control signal & Geo Fence setting
- / Additional safety mechanism to detect proper battery engagement
- / Rechargeable and changeable battery
- / Retractable arms for ease of transportation
- / Team mode option for separate copter and camera control (additional ST16S required; sold separately)

Technical Specifications

DRONE

Take Off Weight:	2000 g (incl. camera)
Diagonal Length:	520 mm (w/o rotor blades)
Flight Time:	up to 25 min
Max. Speed:	20 m/s
Max. Ascent Speed:	5 m/s
Max. Descent Speed:	3 m/s
Max. Flight Height:	500 m
Max. Angular Velocity:	120°/s
Battery:	4S 5250mAh LiPo
Motors:	730kV
Charger:	SC4000-4H
Operating Temperature:	0° - 40°C
Storage Temperature:	-10°C - 50°C

OBSTACLE AVOIDANCE

Sensor:	Ultrasonic
Flight Speed:	4 m/s
Operating Environment:	Height > 1.5 m / Distance to obstacles < 5 m

REMOTE CONTROL

Operating System:	Android™
Channels:	16
Transmission Distance:	Up to 2 km (1.6 km in Europe), optimum conditions
Battery:	3.6V 8700mAh 31,32Wh Li-Ion
Frequency:	2.4 GHz
Videolink Frequency:	5.8 GHz
Videolink Resolution:	720 p
Screen:	7"
Operating Temperature:	0°C - 40°C
Video Outputs:	HDMI

CAMERA

Dimension:	129 x 80 x 130 mm
Weight:	375 g
Sensor:	1" CMOS
Effective Pixels:	20 MP
Camera Lens:	F2.8, 23 mm equivalent
FOV:	91°
ISO:	100 - 6400
Shutter:	4 - 1/8000s
Photo Resolution:	3:2 (5472 x 3648); 4:3 (4864 x 3648); 16:9 (5472 x 3080)
Video Resolution:	4096x2160 (H.264:24/25/30/48/50/60fps);(H.265: 24/30fps) // 3840x2160 (H.264: 24/25/30/48/50/60fps); (H.265: 24/30fps) // 2720x1530 (24/25/30/48/50/60fps) // 1920x1080 (24/25/30/48/50/60/120fps) // 1280x720 (24/25/30/48/50/60/120fps)
Poto Format:	JPEG, DNG, JPEG+DNG
Video Format:	MP4
White Balance:	Auto, Lock, Daylight, Cloudy, Shade, Incandescent, Sunrise, Custom (2000K-12000K)
Picture Modes:	Normal, Vivid, WDR, B&W, 10 Bit Log
Photography Modes:	Single, Burst, Interval, AEB, Panoramic
Exposure Modes:	Auto, Manual, ISO Priority, Shutter Priority
Exposure Compensation:	±3.0
Operating Temperature:	-10°C - 40°C

Scope Of Delivery



YUNTYH3EU

- / Typhoon H3 Hexacopter
- / ION L1 Pro camera co-engineered with Leica
- / ST16S remote control
- / 2 batteries
- / Charger
- / Neck strap for ST16S
- / Optional patch antenna
- / SD card
- / USB and power cable

\$ 2,599