

TYPHOON

PRO WITH INTEL® REALSENSE™ TECHNOLOGY



Intel® RealSense™ Technology enables the Typhoon H to fly autonomously, intelligently navigating around objects, taking safety and customers' creative options to the next level.



>> Kaltenkirchen, Germany (June, 23rd, 2016)
Yuneec International, one of the world's most influential high-tech enterprises in electric aviation, today announced the launch of the Typhoon H Pro with Intel® RealSense™ Technology. Designed to dodge obstacles by itself while producing unparalleled 4K video and 12 megapixel still images. With 720p down link and automatic flight features, the Typhoon H Pro with Intel® RealSense™ Technology becomes the first ever consumer multicopter on the market including artificial intelligence to avoid crashes following a target object while recording....

YUNEEC

TYPHOON H PRO

with Intel® RealSense™ Technology

The Typhoon H Pro with Intel® RealSense™ technology is an advanced aerial photography and videography platform, perfect for novice as well as skilled pilots and photographers. It offers up to 22 minutes of flight time while filming with the CGO3+ 4K-resolution camera that allows 360-degree unlimited panning for breathtaking videos and photos. All the regular settings can be freely and remotely adjusted through an easy and intuitive remote controller – ST16 Personal Ground Station – featuring a 7-inch Android touchscreen that displays live footage of your flight. In addition, the landing gear retracts during flight to seamlessly remove itself from the shot for unobstructed views.

To meet customer's different needs for function and portability, the Typhoon H has three configurations: the Pro with Intel® RealSense™ technology version, equipped with a portable backpack, the Advance version with sonar, which is updateable to the Pro version with Intel® RealSense™ technology with an extra Intel® RealSense™ technology module and the Pro version of the Advance including an additional second battery and a portable backpack like the Pro version with Intel® RealSense™ technology.

With the Pro version with Intel® RealSense™ technology customers get these additional features in addition to what the Typhoon H Advance and Pro provides:

- A factory installed Intel® RealSense™ R200 Camera and the Intel® Atom™ processor module work seamlessly with the flight control firmware to add intelligent obstacle navigation.
- With a combination of specialized cameras and sensors, this Intel® system maps and learns its environment in 3D, recognizing each obstacle, planning an alternative route and safely navigating around it.
- The module also adds downward facing sensors to improve stability, enabling flight indoors or outdoors close to the ground, even with poor GPS reception.



The Typhoon H features several smart functions integrated into the system. The Typhoon H also maintains Typhoon family's emphasis on safety with features like Geo-fencing, Dynamic Return Home, Low-Battery Return Home and No Fly Zones. Consumers can benefit greatly from the six features exclusive to the Typhoon H:

12 MP 12.4 MEGAPIXEL STILL IMAGES	TASK MODE	OBSTACLE AVOIDANCE	5-ROTOR FLIGHT SAFETY	DUAL-CONTROL POSSIBILITY	4K VIDEO CAPTURING	HD VIDEO DOWNLINK	360° UNLIMITED GIMBAL VIEW	3 AXIS GIMBAL	INTEGRATED 7" TOUCHSCREEN
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ORBIT ME When Orbit Me is enabled, the Typhoon H flies a circular path around the pilot.	POINT OF INTEREST Point of Interest allows the pilot to select a subject they would like to orbit and have the Typhoon H orbit that subject autonomously.	JOURNEY Capturing the perfect aerial selfie just got easier. Depending on your desired setting, the Typhoon H will go up, out and return to capture your finest moment.
CURVE CABLE CAM Curve Cable Cam allows you to create an invisible route for the Typhoon H to fly along. Once the pilot sets the point, the Typhoon H will fly the set coordinates while remembering the heading and camera position.	WATCH ME / FOLLOW ME For hands-free piloting, enable Follow Me or Watch Me. When Follow Me is enabled, Typhoon H leases itself to the pilot. Watch Me ensures the 4K camera stays fixated on the pilot while following the pilot autonomously.	DYNAMIC RETURN HOME Simply switch to Home Mode and the Typhoon H will fly back toward the location of the pilot holding the transmitter and automatically land within 13 to 26 feet (4 to 8 meters) of the pilot.

SPECIFICATIONS

TYPHOON H SPEC	
Flight Time	Up to 22 min
Size	20.5x17.9x11.6 in (520x456x296mm)
Takeoff Weight	69.3oz (1965g)
Battery	4S 14.8V LiPo Battery (POWER 4)
Battery Capacity/Voltage	5400mAh 4S/14.8V@79.9Wh
Charger	SC4000-4
Transmitter	ST16 Personal Ground Station
Maximum Flying Height	122m (400ft)(Restricted by FAA)
Maximum Rotation Rate	90°/s
Maximum Roll Angle	45°
Maximum Climbing Speed	5m/s
Maximum Speed In Angle Mode	13.5m/s
Maximum Descending Speed	3m/s
Diagonal Wheelbase	18.9 in (480mm)
Frame Arm Length	7.4 in (187mm)
Landing Gear Size	10.4x7.3 in (265x185mm)

CGO3+CGO3 PLUS) SPEC	
Weight	8.8oz (250g)
Effective Pixels	12.4 Megapixels
Camera lens	14mm/F2.8 35mm
FOV	98 °
Electronic Shutter	4s@1/8000s
Video Transmission Range	Up to 1 Mile (1.6km)
Transmission System	5.8Ghz
Video UHD	4K 30FPS

ST16	
Operating System:	Android™
Number of Channels:	16
Control Transmission Distance/Range (Optimum Conditions):	Up to 1 Mile (1.6km)
Video Link Resolution:	HD 720P
Video Link Frequency Band:	FCC Compliance: Up to 1 Mile (1.6km)
Video Transmission Distance/Range (Optimum Conditions):	CE Compliance: Up to 1 Mile (1.6km)
Flight Systems Telemetry Data On Screen	Yes
Display (OSD):	Yes
LCD Screen Size:	3.6V 8700mAh 31.32Wh Li-ion
Tactile (Vibrating) and Audible Feedback:	13.5m/s
Built-In Li-ion Battery Voltage / Capacity:	3m/s

Intel® RealSense™ 3D R200 Sensor Camera	
Sensor Cameras:	RGB (Color) / Stereoscopic IR / Laser Projector (3D Scanning)
Operating Distance:	0,5-3,5m (Indoor) / Up to 10m (Outdoor)
Other included Features:	<ul style="list-style-type: none"> · Tracking/localization: real time estimation of position and orientation (attitude) of the camera by using the depth, RGB and IMU data. · 3D volume/surface reconstruction: creating digital real-time representation of the 3D scene, which is observed by the camera · Downward facing sensors to improve stability, enabling flight indoors or outdoors close to the ground

SPARE PARTS OVERVIEW



YUNTYHR
RealSense for TYPHOON H



YUNTYHIPS
1 pc of IPS Indoor Positioning System for TYPHOON H



YUNTYHBP001
Backpack for Typhoon H



YUNTYH105
TYPHOON H battery



YUNTYH108
Gimbal connection bracket
3 pcs of grub screws
Gimbal connection board



YUNTYH109
1 pc of TYPHOON H landing gear



YUNTYH110
Landing gear three-way connector and other accessories



YUNTYH111
TYPHOON H three color lampshade



YUNTYHSC4000-4
SC4000-4 charger



YUNTYH115
USB to Micro USB cable



YUNTYH118A
3 pcs of Propeller / Rotor Blade A and other accessories



YUNTYH118B
3 pcs of Propeller / Rotor Blade B and other accessories



YUNTYH119
2 pcs of black foam damping



YUNTYHFSP090
AC to DC adapter for TYPHOON H



YUNTYHFSP090EU
AC to DC adapter power cable with EU plug



YUNCGO3PEU
CGO3+ with black color mounting parts and arms plus any other accessories



YUNCGO3P101
black color top and bottom mount plus
4pcs of gimbal mount dampers



YUNCGO3P102
8 pcs of gimbal mount dampers



YUNCGO3P103
1 pc of black cover and Yuneec Decal; 6 pcs of screws



YUNCGO3P104
1 pc of rubber damper protective cover



YUNCGO3113
1pc of UV filter
1pc of cleaning cloth



YUNST16EU
ST16 with battery, charger and any other accessories



YUNST16100
1 pc of Li-ion battery



YUNST16101
1 pc of Neck Strap and 1pc of Neck Strap Mount for ST16



YUNST12HEU
1 pc of ST12 with battery, charger and any other accessories



YUNST10100
1 pc of Li-ion battery



YUNST12103
1 pc of Neck Strap and 1pc of Neck Strap Mount for ST12

SERIES OVERVIEW

	ADVANCED VERSION YUNTYHBEU	PRO VERSION YUNTYHBPEU	PRO VERSION with Intel® RealSense™ Technology YUNTYHBREU
AVOIDING SYSTEM	ULTRASONIC	ULTRASONIC	ULTRASONIC + REALSENSE
IPS	NO	NO	YES
GIMBAL CAMERA	CGO3+	CGO3+	CGO3+
VIDEO UHD	4K 30FPS	4K 30FPS	4K 30FPS
UNLIMITED GIMBAL	YES	YES	YES
TRANSMITTER	ST16	ST16	ST16
CONTROL TRANSMISSION DISTANCE/RANGE	UP TO 1 Mile (1.6 Km)	UP TO 1 Mile (1.6km)	UP TO 1 Mile (1.6 Km)
VIDEO TRANSMISSION DISTANCE/RANGE	UP TO 1 Mile (1.6 Km)	UP TO 1 Mile (1.6km)	UP TO 1 Mile (1.6 Km)
HDMI OUTPUT	YES	YES	YES
LCD SCREEN SIZE	7"	7"	7"
BACKPACK	NO	YES	YES
MAP PRICE	1.399 €	1.699 EUR	2.099 EUR

CONTENT OVERVIEW

ADVANCED VERSION

- YUNTYHBEU
 01 TYPHOON H (CGO3+ INCLUDED)
 02 ST16 PERSONAL GROUND STATION
 03 SC4000-4 CHARGER
 04 4S 8C 14.8V LIPO BATTERY (1 PIECE)
 05 POWER SUPPLY AND ADAPTOR
 06 ACCESSORIES



PRO VERSION

- YUNTYHBPEU
 01 TYPHOON H (CGO3+ INCLUDED)
 02 ST16 PERSONAL GROUND STATION
 03 SC4000-4 CHARGER
 04 4S 8C 14.8V LIPO BATTERY (2 PIECES)
 05 POWER SUPPLY AND ADAPTOR
 06 ACCESSORIES
 07 BACKPACK



PRO VERSION with Intel® RealSense™ Technology

- YUNTYHBREU
 01 TYPHOON H (CGO3+ INCLUDED)
 02 REALSENSE MODULE
 03 ST16 PERSONAL GROUND STATION
 04 SC4000-4 CHARGER
 05 4S 8C 14.8V LIPO BATTERY (2 PIECES)
 06 POWER SUPPLY AND ADAPTOR
 07 ACCESSORIES
 08 BACKPACK



Art.-Nr. YUNTYHBPEU



Art.-Nr. YUNTYHBREU



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