



TORNADO

H920-CGO4

PRESS RELEASE

For Publication - 12/07/2015



TORNADO H920 HEXACOPTER

The H920 is a professional multirotor aerial photography and videography (APV) platform. Its unique modular design and innovative features make it possible to capture amazing photographs and video footage for a variety of uses. And thanks to nearly two decades of experience in developing and producing RC and manned aircraft, Yuneec engineers were able to deliver the long flight times, ease of operation and reliability you've been looking for in an aerial photography and videography solution. For your convenience, it is compatible with three camera options: the industry standard Panasonic GH4, Yuneec's V18 gimbal camera and Yuneec's CGO4 gimbal camera.

FEATURES



LIGHTWEIGHT UNDER 5KG



AIR PRESSURE SENSOR



SECURED 5.8GHZ WIFI VIDEO DOWNLINK



ANDROID SYSTEM



5-ROTOR FLIGHT SAFETY



TELEMETRY DATA DISPLAY



FOLDABLE ARMS



GPS ANTENNA



RETRACTABLE LANDING GEAR



AUTO LANDING



ST24 PERSONAL GROUND STATION

The ST24 is not only an advanced 24-channel 2.4GHz RC transmitter - it's also a powerful Personal Ground Station (PGS) that includes built-in hardware and functionality for a 5.8GHz video downlink and First-Person View (FPV), a flight simulator and an Android™ tablet/pad. With the convenient and portable ST24 it's no longer necessary to use separate components to view real-time video and telemetry data during flight.

CGO4 PROFESSIONAL GIMBAL CAMERA

The CGO4 is an independent high end professional all in one gimbal camera module, specially developed for professional users who require ultra-high aerial imaging quality and resolution. The dream of an adjustable, all-function, remote-controlled, 4/3 inch sensor, aerial capturing system is now a reality. CGO4 incorporates a true Panasonic GH4 camera with a 3x optical zoom lens and an integrated 5.8 GHz video link module all housed in purpose designed casing. It can be installed on both the TORNADO H920 copter and the ProAction ground SteadyGrip system. All the regular Panasonic GH4 camera settings can be freely and remotely adjusted through Yuneec ST24 transmitter which totally transforms and reshapes the boundaries of aerial imaging creation.



ST12 PERSONAL GROUND STATION

The ST12 is not only an advanced 12-channel 2.4GHz RC transmitter - it's also a powerful Personal Ground Station (PGS) that includes built-in hardware and functionality for a 5.8GHz video downlink and First-Person View (FPV). With the convenient and portable ST12 it's no longer necessary to use separate components to view real-time video and telemetry data during flight.

TORNADO PROACTION

The TORNADO ProAction is a professional ground imaging system, designed to extend the CGO4 gimbal camera. The system includes the ProAction ground handle, which allows for double and single handed operation, and features a pitch controller, for precise camera angle control.



SPECIFICATIONS

TORNADO H920 PROFESSIONAL MULTIROTOR PLATFORM

HEIGHT:	461mm (18.15in)
DIAMETER OF H920 (WITHOUT PROPELLERS):	969mm (38.15 in)
PROPELLER DIAMETER:	440mm (17.3 in)
WEIGHT (WITHOUT BATTERY AND PAYLOAD):	2.49kg (5.49lbs)
MAXIMUM TAKEOFF WEIGHT (WITH BATTERY AND LOAD):	4.95kg (10.91lbs)
BATTERY:	3800mAh 6S 22.2V LiPo Battery 2pcs (included RTF, required for RR, 3800mAh 6S 22.2V 3pcs)
CHARGER:	6S 22.2V LiPo Battery DC balancing an AC adapter (included RTF, required for RR)
TRANSMITTER:	24-channel 2.4GHz with 5.8GHz video downlink (included RTF, 8+ channel required for RR)
ON-BOARD ELECTRONICS:	12-channel 2.4GHz receiver (installed in RTF, 8+ channel required for RR) FC0 flight control, ESC/main power board and brushless motors (installed in RTF and RR)
3 FLIGHT MODES:	Smart, Angle and Home Mode
MAXIMUM FLYING HEIGHT:	(Absolute altitude) 4000m (13124 ft), (Relative altitude) 1000m (3281 ft)
MAXIMUM ROTATION RATE:	100°/s
MAXIMUM ROLL ANGLE:	35°
MAXIMUM HORIZONTAL SPEED:	21m/s, 47m/h, 75 km/h (5kg, throttle)
OPERATING TEMPERATURE RANGE:	-5°C to 80°C

ST24 PERSONAL GROUND STATION

NUMBER OF CHANNELS:	24
RC BAND:	2.4GHz
RC MODULATION:	Yuneec Protocol
VIDEO DOWNLINK BAND:	5.8GHz
TELEMETRY/OSD:	Yes
SD CARD COMPATIBLE:	Yes
LCD SCREEN SIZE:	7"
TOUCHSCREEN:	Yes
CONTROL TRANSMISSION DISTANCE/RANGE (OPTIMUM)	2km (6562 ft)
VIBRATION AND AUDIO FEEDBACK:	Yes
BUILT-IN LIPO BATTERY VOLTAGE / CAPACITY	8700mah Li-ion 1s
TWO-WAY COMMUNICATION WITH TELEMETRY	
EXTENDED-RANGE VIDEO DOWNLINK	
UNIVERSAL CHANNEL CONTROL SYSTEM	
BUILT-IN FLIGHT SIMULATOR	
BUILT-IN ANDROID™ TABLET/PAD	

CGO4 PROFESSIONAL GIMBAL CAMERA

CAMERA	4/3 Live MOS Sensor and the image processor Venus Engine
IMAGE SENSOR:	16 Megapixels
EFFECTIVE PIXELS:	4K 30FPS/100MBS [3840x2160], FullHD [1920x1080], HD [1280x720]
VIDEO RESOLUTION:	[4:3] 4608x3456 (L) / 3264x2448 (M) / 2336x1752;
PHOTO RESOLUTION:	[3:2] 4608x3072 (L) / 3264x2176 (M) / 2336x1560;
	[16:9] 4608x2592 (L) / 3840x2160 (M) / 1920x1080
DIGITAL VIDEO DOWNLINK:	Integrated
COMPATIBLE LENS:	3x Optical Zoom 14-42mm (Standard Configuration), OLYMPUS M.ZUIKO DIGITAL ED 12mm f2.0, LEICA DG SUMMILUX 15mm F1.7
FOCUS MODE:	AFS / AFF / AFC / MF - Auto Focus, Eye Detection, Tracking, 49-area.focusing, Custom Multi, 1-area-focusing, Pinpoint (Touch focus area selection)
SHUTTER SPEED:	1/8000s to 60s
ISO RANGE:	100 to 25600
SHUTTER SYSTEM:	Focal-plane Shutter
DIGITAL ZOOM:	Max. 4x
VIDEO TRANSMISSION DISTANCE:	CE: 700m
STORAGE (MEMORY):	SD Card
GIMBAL	
DIMENSIONS:	6.5 x 8.6 x 7.7in (165 x 219 x 196mm)
WEIGHT:	1160g (camera and gimbal)
GIMBAL AXES:	3
CONTROL ANGLE ACCURACY:	±0.01°
MAXIMUM CONTROL RANGE:	between -90° to 0° (for H920) between -90° to 30 (for ProAction)
	Yaw: 360° limitless
MECHANICAL RANGE:	Pitch: between -120° to 45°
	Roll: between -40° to 40°
	Yaw: 360° limitless
	Pitch: 30°/s; Yaw: 30°/s
MAXIMUM CONTROL SPEED:	24V
INPUT/OPERATING VOLTAGE:	1A
CURRENT CONSUMPTION:	10°C - 30°C
STORAGE TEMPERATURE:	-5°C - 46°C
WORKING TEMPERATURE:	

ST12 PERSONAL GROUND STATION

NUMBER OF CHANNELS:	12
OPERATING DISPLAY:	Android™
SCREEN SIZE:	5.5"
SCREEN RESOLUTION:	854 x 480
RADIO CONTROL FREQUENCY BAND:	2.4GHz
CONTROL TRANSMISSION DISTANCE/RANGE (OPTIMUM):	FCC Compliance: Up to 800m (2624.67 ft) CE Compliance: Up to 400m (1312.34)
ROBUST RADIO CONTROL MODULATION:	Yuneec Protocol
VIDEO LINK FREQUENCY BAND:	5.8GHz
FLIGHT SYSTEMS TELEMETRY DATA ON SCREEN DISPLAY:	Yes
TACTILE (VIBRATING) AND AUDIBLE FEEDBACK:	Yes
BUILT-IN LIPO BATTERY VOLTAGE / CAPACITY:	3.6V/5200mAh 18.72Wh

PROACTION HANDLE

DIMENSIONS:	14.17*10.04*14.57in (360*255*370mm)
WEIGHT (WITHOUT GIMBAL/BATTERIES)	52.91oz (1.5kg)
BATTERY WEIGHT:	7.72oz (219g)
INCLUDED BATTERY:	4S/14.4V 0.3C 2600mAh 37.44Wh Lithium-Ion
RUNTIME:	2.5h
WORKING VOLTAGE:	12.0-16.8V
WORKING CURRENT:	0.68-1.0A
COMPATIBLE DEVICES:	GB603, CGO4

Included Items:

- TORNADO H920 RTF Set
- CGO4 3-Axis Gimbal Camera
- ST24 24-Channel 2.4GHz Personal Ground Station with Video Downlink and FPV-Function
- ST12 12-Channel 2.4GHz Personal Ground Station with Video Downlink and FPV-Function
- 2x 5.400mAh 3S 11,1V LiPo Battery
- A10 AC/DC Dual-Charger
- ProAction ground handle
- Aluminum transport case

Item No.:

YUNH920202EU

MSRP:

6.999,00 EUR incl. 19% VAT

Description:

TORNADO H920-CGO4

Available From:

Middle of December