

TECHNICAL SPECIFICATIONS

BLUEYE X1



Drone specifications

Drone

Ingress protection	IPX8
Dimensions	485 x 257 x 354 mm (LxWxH)
Weight in air	8.6 kg (with salt water ballast)
Construction	ABS enclosures, Aluminium pressure enclosures, Polycarbonate (PC) windows
Buoyancy material	HCP 30 Polymer Foam
Maximum rated depth	305 m
Forward speed at normal use	1.5 m/s (3 knots)
Thrusters	4 x 350 W
Run time at normal use	Approx. 2 hrs / 5 hrs
Operating temperature	-10 to +50 °C

Guest Port

Power	5V(2.1A shared), BAT(7A), 20V(2A shared)
Protocols	ETHERNET 10/100Base-T/TX, RS232, USB, I2C, PWM, UART

Camera

Mechanical tilt	-30 to +30 °
Vertical field of view	115 °
Sensor	Exmor R CMOS, 1/2.8 inch
Max image size	1920 x 1080 pixels
Shutter speed	1/30 s – 1/8000 s
Picture max resolution	2M (1920 x 1080)
Picture type	JPEG
Video resolution	FHD: 1920 x 1080 25/30 Fps, HD: 1280 x 720 25/30 Fps
Video type	MP4
Video storage bit-rate	14 MBit/s
SD card	256 GB

LED lights

Luminous flux	3300 Lumen
Colour temperature	5000 K
Colour rendering index (CRI)	90
Adjustable dimming	Yes

Sensors

IMU	3 axis gyro & accelerometer & magnetometer
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Depth sensor	Resolution: 0.2 mbar
Depth sensor operating range	0 to 30 bar
Temperature sensor	+/-1 °C

Tether

Length	Up to 500 m
Breaking strength	100 kg
Number of cables	1 twisted pair (copper)
Size	28 AWG

Controller

Compatibility	iOS or Android
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Surface Unit specifications

Surface Unit

Ingress protection	IP64
Dimensions	38 x 149 x 158 mm (LxWxH)
Operating frequency	2.4 GHz / 5.8 GHz
Max Wi-Fi distance	30 m
Battery	19.48 Wh
Runtime/Charging time	6h
Operating temperature	0 to +35 °C

Charging temperature	+10 to +35 °C
Transmitter power	125 mW
Operating voltage	5 - 8.4 V
USB-C	In: 5 V, 2.1 A - Out: 5 V, 400 mA
Internal Antennas	Dual-band 3.8dBi

Smart Batteries

Standard Battery

Nominal Voltage	14.8 V
Nominal Capacity	6500 mAh
Nominal Energy	96.2 Wh
Max discharge	40 A
Max charge	10 A
Operating temperature	-10 to +50 °C
Charging temperature	5 to 30°C
Normal runtime	Approx. 2 hours

High Capacity Battery

Nominal Voltage	14.4 V
Nominal Capacity	14750 mAh
Nominal Energy	212.4 Wh
Max discharge	25 A
Max Charge	5 A
Operating temperature	-10 to +50 °C
Charging temperature	5 to 30°C
Normal runtime	Approx. 5 hours

Charger specifications

Charger 2.0

Dimensions	56 x 107 x 64 mm (LxWxH)
Operating temperature	5 to 30 °C
Operating rel. humidity	20% to 80%
Input	20 V, 4 A
Output	16.8 V, 2.5 A / 4.3 A

Power supply

Input	100 - 240 V, 1.5 A, 50 - 60Hz
Total output power	108 W
Output port 1	USB-C PD 94 W (Max) / 65 W
Output port 2	USB-C PD 30 W
Output 3 and 4	USB-A 5 V, 2.4 A (total max)
Manufacturer	Belkin
Model	WCH0101