

TECHNICAL SPECIFICATIONS

BLUEYE X3

blueye

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 hours |
| Operating temperature | -5 to +35 °C |

Guest Port 1

| | |
|-----------|--|
| Power | 5V(2.1A shared), BAT(7A), 20V(2A shared) |
| Protocols | ETHERNET 10/100Base-T/TX, RS232 (or RS485/RS422), I2C, PWM, UART |

Guest Port 2

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

Guest Port 3

| | |
|-----------|--|
| 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 | 2 to 16 MBit/s |
| SD card | 256 GB |



LED lights

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

Smart Battery Pack

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|-----------------------|--------------|
| Nominal Voltage | 14.8 V |
| Nominal Capacity | 6500 mAh |
| Nominal Energy | 96.2 Wh |
| Operating temperature | -5 to +35 °C |
| Charging temperature | 5 to 30 °C |

Sensors

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

Tether

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|-------------------|-------------------------|
| Length | 150 m |
| Breaking strength | 100 kg |
| Number of cables | 1 twisted pair (copper) |
| Size | 26 AWG |

Controller

| | |
|---------------|----------------|
| Compatibility | iOS or Android |
|---------------|----------------|

Surface Unit specifications

Surface Unit

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|-----------------------|-----------------------------------|
| 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 (TBC) |
| 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 3dBi RP-SMA Male (TBD) |

Charger specifications

Charger

| | |
|-------------------------|--------------------------|
| Dimensions | 56 x 107 x 64 mm (LxWxH) |
| Operating temperature | 5 to 30 °C |
| Operating rel. humidity | 20% to 80% |
| Input | 19.5 V, 4 A |
| Output | 16.8 V, 2.5 A |

Power supply

| | |
|-------------------------|----------------------------|
| Input | 100 - 240 V, 3A, 50 - 60Hz |
| Output | 19.5 V, 11.8 A |
| Operating temperature | 0 to 40 °C |
| Operating rel. humidity | 20% to 80% |
| Manufacturer | FSP GROUP |
| Model | FSP230-AJAN3 |

