Drone Anatomy 101
by Michael Smith

One of the best ways to become a skilled and successful drone pilot is to first learn the basic components of your aircraft. Whether your goal is to build your own flyer, diagnose problems, perform routine maintenance, or execute in-the-field repairs, knowing how to identify each component and what it does is vital. To help you out, we’ve put together a brief anatomy lesson that illustrates the various parts and purposes of your drone, so you can get a better look at what makes it tick, er, fly.

Frame
The frame is the main body of your drone. Quite often, it comes in an “X”-style design, with four arms extending out from a central body. The frame is typically where all your other components are housed, including rotors, battery, boards, and camera setup. If we were to make a comparison between drone anatomy and human anatomy, we would say the frame is your drone’s skeleton.

Propellers
Propellers—also called props, rotors, or blades—come in various shapes, sizes, and materials. Regardless of their specific attributes, however, props all have the same basic purpose: to get your drone into the air. Often as vulnerable as they are necessary, props are the components you should familiarize yourself with first and foremost, since every serious pilot in the world has had to replace or install multiple propeller blades multiple times throughout their flying career.

Motors
The motor assembly is what’s responsible for spinning your props and providing enough thrust to fly. Most current-market drones utilize brushless out-runner motors which, overall, are designed to be more efficient than their brushed counterparts. Unlike your props, you probably won’t have to fuss with motors too often, unless you’re customizing the original design or making repairs. A good way to ensure your motors stay healthy is to check regularly that they’re free from dirt and debris and to pay attention to the noise they make. All motors produce a specific sound that you’ll come to associate with your aircraft. If yours sounds off during flight, it’s probably time for a checkup.

Battery
Your flight battery is the beating heart of your drone. 99.9-percent of the time, it’s going to be a Lithium-ion Polymer (LiPo) battery in either a 2, 3, or 4S configuration. Unless you’re constructing a new vehicle, or customizing your own, you probably won’t have to worry about cell series or even capacity—just know what they are in case you need to replace the original. Like props, batteries are nice to keep extras of. They don’t damage easily, but they do discharge, so a spare will save you from unwanted down time.
Flight Controller

If the frame is the skeleton, and the battery the heart, then the flight controller is the brain of your drone.

The flight controller interprets signals from the various boards, sensors, and receiver, and converts those signals into action, whether that’s adjusting speed and steering, activating the camera, or any other operation your drone performs.

The PDB is another component you most likely won’t have to fuss with unless you’re building a drone, but it’s good to know its role and how it is supposed to function in case you’re having power issues.

Power Distribution Board

The Power Distribution Board (PDB) is a critical component of your drone that performs exactly as its name suggests: it distributes power. Specifically, it’s responsible for distributing power from the flight battery to each of your Electronic Speed Controllers (in some installations, the PDB is also used for distributing power to other components, such as your camera setup, LED taillights, or even the flight controller).

Electronic Speed Controller

Like the PDB, the Electronic Speed Controller (ESC) is another crucial component that, thankfully, doesn’t require too much attention or maintenance. Also like the PDB, the ESC’s purpose is evident in its naming: it controls the speed of your electronic motors. Each motor has its own ESC connection and, in most standard installations, like the one shown, this means separate ESCs installed on each arm; however, 4-in-1 ESC components do exist and offer a different set of advantages should you go that route. Likely, you won’t spend too much time thinking about your ESCs. But, in the event of power trouble, especially issues localized to a particular motor, the ESC should be the first point of inspection.

Receiver

Receivers are comparable to sensory nerves: they collect information (signals) from external sources (the radio transmitter) and pass them along to the brain (flight controller). Typically, they utilize an integrated antenna, which makes receiving radio signals possible. At the bare minimum, your receiver will have four channels—to control pitch, roll, throttle, and yaw. However, many receivers have auxiliary channels for performing certain functions or triggering flight modes. If you need a new receiver, a 5- or 6-channel device is recommended.

Camera

Not all drones feature a camera system, but the ones that do offer additional options when flying, whether it’s aerial photography, cinematography, or first-person view (FPV) flying. Like drones themselves, video systems come in a wide array of models and setups, and include their own subset of components, such as gimbals, video transmitters, antennas, and FPV goggles.
DJI Spark Quadcopter
with Gimbal-Stabilized Camera
- 2-Axis Stabilized Gimbal Camera
- 12MP Still Photos / 1080p/30 Video
- Gesture and TapFly Control
- FlightAutonomy with Obstacle Detection
- Top Speed of 31 mph in Sport Mode
- Up to 16 Minutes Flying Time
- Up to 1.2 Mile Control Range
- Control, Edit, Share with DJI GO App

DJI Mavic Pro Quadcopter
with Gimbal-Stabilized 4K Camera
- Gimbal-Stabilized 12MP / 4K Camera
- OcuSync Transmission Technology
- Up to 4.3 Mile Control Range
- Up to 27 Minutes Flight Time
- GPS- & Vision Position-Based Navigation
- FlightAutonomy with Obstacle Detection
- DJI GO App-Based Control and Monitoring
- Top Speed of 40 mph in Sport Mode
- ActiveTrack Subject Tracking Modes
- Tap- and Gesture-Based Commands

DJI Matrice 200 Professional Quadcopter
with Remote & Case
- Works with Zenmuse Gimbals / Cameras
- Up to 33.5lb Maximum Takeoff Weight
- Up to 30 Minutes of Flight Time
- Operates in Harsh Environments
- Advanced Obstacle Sensing
- 2-Axis Stabilized FPV Camera

DJI Matrice 600 Pro Hexacopter
with Six Flight Batteries and Six-Bay Charger
- Works with Zenmuse Gimbals / Cameras
- Works with Ronin-MX Gimbal
- Up to 34 Pounds Total Take-Off Weight
- Integrated Lightbridge 2 Support
- Full HD 1080p Live Monitoring
- A3 Pro Flight Controller
- Collapsible Design for Easy Transport

DJI Inspire 2 Premium Combo Quadcopter
with Zenmuse X5S Gimbal Camera
- Includes CinemaDNG/ProRes Record License
- Up to 5.2K Video / 20.8MP Still Images
- Micro 4/3 Sensor and Lens Mount
- Obstacle Sensing
- Accelerates to 50 mph in 4 Seconds
- 67 mph Maximum Velocity

DJI Phantom 4 Advanced/Pro Quadcopter
with Remote
- Advanced: Obstacle Avoidance / Indoor Flying
- Pro: Four Directions of Obstacle Avoidance
- Gimbal-Stabilized 4K / 60MP Imaging
- Top Speed of 45 mph in Sport Mode
- Maximum Control Range of 4.3 Miles
- Standard: Remote Holds Mobile Device
- Pro: Remote Holds Mobile Device

DJI Prop Star Wars Quadcopters
- Star Wars Replica Vehicle
- Speeds up to 35mph
- Multiple Flight Modes & Speed Settings
- Perform Tricks & Stunts
- Bluetooth Technology

DJI Matrice 210 RTK
with BeiDou Navigation (Asia) (DJI210RTK)
- 14,999.00
DJI Matrice 210 RTK with GLONASS Navigation (Global) (DJI210RTK)
- 14,999.00
DJI Matrice 200 (DJI200)
- 5,299.00
DJI Matrice 210 (DJI210)
- 8,999.00
DJI Matrice 210 RTK with BeiDou Navigation (Asia) (DJI210RTK)
- 14,999.00
DJI Matrice 210 RTK with GLONASS Navigation (Global) (DJI210RTK)
- 14,999.00
DJI Mavic Pro Fly More Combo
Blue (DJS6000BLC) ........................................ 699.00
Green (DJS6000BCG) ...................................... 699.00
Red (DJS6000BRC) ......................................... 699.00
White (DJS6000BCW) .................................... 699.00
Yellow (DJS6000BCY) ..................................... 499.00
DJI Mavic Pro Platinum Fly More Combo
Blue (DJS6000BPLC) ........................................ 699.00
Green (DJS6000BPLCG) .................................... 699.00
Red (DJS6000BPLRC) ...................................... 699.00
White (DJS6000BPLCW) ................................... 699.00
Yellow (DJS6000BPLCY) .................................. 499.00
DJI Inspire 2 Premium Combo Quadcopter
Standard Configuration (DJIINSPIRE2) ............. 2,869.90
DJI Inspire 2 Premium Combo Quadcopter
with CinemaDNG & Apple ProRes (DJIINSPIRE2CF) 6,198.00
DJI Phantom 4 Advanced/Pro Quadcopter
Pro (DJI4AP) .................................................. 1,499.00
Pro+ (DJI4APNA) ........................................... 1,799.00
Pro Obsidian Edition (DJI4APOE) .................... 1,499.00
Pro+ Obsidian Edition (DJI4APOPE) ............... 1,799.00
DJI Inspire 2 Quadcopter
Pro+ Obsidian Edition (DJI4APOE) .................... 1,499.00

GoPro Karma Quadcopter
With Harness for HERO5 Black

- Capture 4K30 Video and 12MP Photos
- Game-Style Controller with Touchscreen
- View Live Camera Feed
- Full Control of HERO5 Black
- Use App for Dedicated Camera Operation

(GOKLH5HB) ........................................... 799.99
with Harness and HERO5 Black (GOKLH5HBH2BC) ........................................... 1,099.00
with Harness and HERO4 Black (GOKLH5HHHB4BK) ........................................... 1,128.98
with Harness and HERO4 Silver (GOKLH5H5BSK) ........................................... 1,179.97

HUBSAN® H501S X4 FPV Quadcopter
with 1080p Camera

(HUH501SBK) ........................................... 229.95
Blue (DRDIDE448B) ........................................... 139.99
Orange (DRDIDE444N) ........................................... 127.08
Green (DRDIDE440G) ........................................... 139.99
Yellow (DRDIDE61Y) ........................................... 139.99

DROMIDA with Integrated 720p Camera
- 720p FPV Camera with microSD Recording
- Wi-Fi for Monitoring with iOS or Android
- 3-Axis Aircraft Stabilization System
- Easy, Normal, Advanced, and Expert Modes
- Up to 15 Minutes Flying Time
- Perform Rolls, Flips with One Button

(PAPF726803) ........................................... 549.00
FPV Bundle with Cockpitglasses FPV & Skycontroller 2 (PAPF72620) ........................................... 699.99
Adventure Bundle with Cockpitglasses FPV & Skycontroller 2 & Backpack (PAPF726204AA) ........................................... 629.00

Parrot BeBop 2 Drone
with 14 MP Camera (White)
- Capture 1080p Video
- Up to 52 ft/s Top Horizontal Speed
- Up to 25 Minutes Flying Time
- 1.2 Mile Line-of-Sight Control Range
- 3-Axis Electronic Image Stabilization
- 7-Sensor Flight-Stabilization System

(PAPF726803) ........................................... 549.00
FPV Bundle with Cockpitglasses FPV & Skycontroller 2 (PAPF72620) ........................................... 699.99
Adventure Bundle with Cockpitglasses FPV & Skycontroller 2 & Backpack (PAPF726204AA) ........................................... 629.00

Parrot Disco FPV
Fixed-Wing Drone
- Cockpitglasses FPV Headset
- Skycontroller 2 Remote Control
- Unified FPV System
- Traditional FPV Experience
- 720p HD Streaming Video Resolution
- Up to 45 Minutes Flying Time
- Supports Popular Smartphones
- Intuitive Design

with FPV Pack (PAPF750001) ........................................... 1,299.99

YUNEEC Typhoon H Hexacopter
with GCO3+ 4K Camera
- Integrated 4K Camera
- with 720p Live View
- iOS and Android Mobile App
- Intelligent Flight Control Modes
- Up to 10 Minutes Flight Time
- GPS and Indoor Positioning System
- Follow Me and Point-of-Interest Modes

(YUNITHSCUS) with Intel RealSense & Backpack (YUNITHBRUS) ........................................... 1,499.99

YUNEEC Q500 4K Typhoon Quadcopter

(YUNQ4KTUS) ........................................... 999.00

YUNEEC 0500 4K Typhoon Quadcopter

(YUNQ5000K) ........................................... 1,299.99

YUNEEC Breeze 4K Quadcopter

(YUNECAUS) ........................................... 449.00

S6 Pocket Drone
Compact, Folding Design
- Integrated 4K Camera with 720p Live View
- iOS and Android Mobile App
- Automatic Takeoff and Landing
- Up to 10 Minutes Flight Time
- GPS and Indoor Positioning System
- Follow Me and Point-of-Interest Modes

Black (WIS6BLACK) ........................................... 399.99
Camouflage (WIS6CAMO) ........................................... 349.00
Orange (WIS6ORANGE) ........................................... 334.39
Outdoor Edition Purple (WIS6PURPLE) ........................................... 249.99

Polaroid PL2900 Quadcopter

(POLPL2900) ........................................... 299.99

Karma Quadcopter
With Harness for HERO5 Black

- One-Touch Takeoff and Landing
- Selfie, Cable Cam, Orbit Flight Modes
- Stabilizer Grip for Handheld Shooting
- Up to 20 Minutes Flying Time
- Compact Case Included

Wingsland H501C X4 Quadcopter
with FPV 720p Camera

(PPH1070P) ........................................... 79.99
White (HUH1070P) ........................................... 299.99

H501C X4 Quadcopter
with FPV 720p Camera

(PPH501SBK) ........................................... 229.95
Black (HUH501C) ........................................... 189.99

Dromida
with 720p Camera
- 720p Camera and microSD Recording
- Wi-Fi for Monitoring with iOS or Android
- 3-Axis Aircraft Stabilization System
- Easy, Normal, Advanced, and Expert Modes
- Up to 15 Minutes Flying Time
- Perform Rolls, Flips with One Button

Blue (DRDIDE448B) ........................................... 139.99
Orange (DRDIDE444N) ........................................... 127.08
Green (DRDIDE440G) ........................................... 139.99
Yellow (DRDIDE61Y) ........................................... 139.99

Parrot BeBop 2 Drone
with 14 MP Camera (White)
- Capture 1080p Video
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- Up to 25 Minutes Flying Time
- 1.2 Mile Line-of-Sight Control Range
- 3-Axis Electronic Image Stabilization
- 7-Sensor Flight-Stabilization System

(PAPF726803) ........................................... 549.00
FPV Bundle with Cockpitglasses FPV & Skycontroller 2 (PAPF72620) ........................................... 699.99
Adventure Bundle with Cockpitglasses FPV & Skycontroller 2 & Backpack (PAPF726204AA) ........................................... 629.00

Parrot Disco FPV
Fixed-Wing Drone
- Cockpitglasses FPV Headset
- Skycontroller 2 Remote Control
- Unified FPV System
- Traditional FPV Experience
- 720p HD Streaming Video Resolution
- Up to 45 Minutes Flying Time
- Supports Popular Smartphones
- Intuitive Design

with FPV Pack (PAPF750001) ........................................... 1,299.99

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**DRONE VOLT**

**Janus 360 V2 Professional**

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- Produce 360° Videos
- 2 Gyrostabilized OMNI 360 Rigs
- 12 4k Cameras
- 15 Minutes Flight Time
- 150GB of Images Per Flight
- HD Live 1080 Video
- Fully Foldable

Call or Log-on

**Intel® Falcon™ 8+ Drone**

- Supports up to 1080p Resolution
- Supports Payloads up to 1.8lb
- Up to 26 Minutes of Flight Time
- Operates in Harsh Environments
- Multiple System Redundancies
- AscTec Trinity Technology

Call or Log-on

**Proto-X FPV Quadcopter**

- with 2GB microSD Card (EST471A)...

**Inductrix FPV PRO BNF Quadcopter**

- with SAFE Technology (BLH8570)...

**Solo Quadcopter**

- with 3-Axis Gimbal for GoPro HERO3+ / HERO4
- Capture Aerial Photos/Video with a GoPro
- Linear Tracking with Cablecam Mode
- Follow Me: Tracks Your Mobile Device
- HDMI Output on Transmitter
- One-Button Flying / “Pause” Button
- Android and iOS Mobile Apps
- Operate GoPro Through App

No Gimbal (3DRSOLO)...

**DOBBY Pocket Drone**

- Portable Design—Takes Off from Your Hand
- One-Key Take-Off and Landing
- 12 Second Automatic Video
- View Live 720p Video Feed
- One-Touch Sharing on Social Media
- Four-Way Collision Avoidance
- Silent Drive Motors
- User-Definable LEDs

- with Hard Case (FRALTAK)...

**X-Star Premium Quadcopter**

- with 4K Camera & 3-Axis Gimbal
- Camera Takes 12MP Still Photos
- 720p HD App-Based Monitoring
- Starpoint Positioning & GPS Navigation
- Follow, Orbit, Waypoints, & GoHome Modes
- Beginner Flight Mode
- Up to 1.25 miles Radio Range
- Up to 25 Minutes Flying Time
- Includes Mobile Device Holder & Hard Case

**ROVA Flying Selfie Drone**

- with 16GB Memory Card
- Capture 1080p Video and 12MP Photos
- Four-Way Collision Avoidance
- One-Touch Sharing on Social Media
- View Live 720p Video Feed
- 12 Second Automatic Video
- One-Key Take-Off and Landing
- Portable Design—Takes Off from Your Hand
- 360° Panoramic Video
- Up to 98° Control and Video Range

**Xiro Xplorer Mini Quadcopter**

- with Pebble Case and Extra Battery (X1UM2213)...

**ROA10ROVABLK**

As of 29/9/2023, the price is...

- **AS01 Pocket Drone**
- **X-Vert VTOL Aircraft**
- **FPV Paper Airplane**
- **Kolibri U818A Discovery Delta-Recon Quadcopter**
- **AERIAL IMAGING**
- **Proto-X FPV Quadcopter**
- **Solo Quadcopter**
- **DOBBY Pocket Drone**
- **X-Star Premium Quadcopter**
- **ROVA Flying Selfie Drone**
- **Xiro Xplorer Mini Quadcopter**

**Camera not included**

**Falcon with 720p HD Camera & 3-Axis Gimbal for GoPro HERO3+ / HERO4**

- 212-444-6675

- Definable LEDs

**AS01 Pocket Drone**

- **X-Vert VTOL Aircraft**
- **FPV Paper Airplane**
- **Kolibri U818A Discovery Delta-Recon Quadcopter**
- **AERIAL IMAGING**
- **Proto-X FPV Quadcopter**
- **Solo Quadcopter**
- **DOBBY Pocket Drone**
- **X-Star Premium Quadcopter**
- **ROVA Flying Selfie Drone**
- **Xiro Xplorer Mini Quadcopter**

**Camera not included**

**3DR Solo Quadcopter**

- Capture Aerial Photos/Video with a GoPro
- Linear Tracking with Cablecam Mode
- Follow Me: Tracks Your Mobile Device
- HDMI Output on Transmitter
- One-Button Flying / “Pause” Button
- Android and iOS Mobile Apps
- Operate GoPro Through App

No Gimbal (3DRSOLO)...

**ROVA10ROVABLK**

As of 29/9/2023, the price is...

- **AS01 Pocket Drone**
- **X-Vert VTOL Aircraft**
- **FPV Paper Airplane**
- **Kolibri U818A Discovery Delta-Recon Quadcopter**
- **AERIAL IMAGING**
- **Proto-X FPV Quadcopter**
- **Solo Quadcopter**
- **DOBBY Pocket Drone**
- **X-Star Premium Quadcopter**
- **ROVA Flying Selfie Drone**
- **Xiro Xplorer Mini Quadcopter**

**Camera not included**

**Falcon with 720p HD Camera & 3-Axis Gimbal for GoPro HERO3+ / HERO4**

- 212-444-6675

- Definable LEDs
## DRONE ACCESSORIES

### Hard Cases

<table>
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<tr>
<th>Case Type</th>
<th>Model</th>
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<td>with Foam Interior</td>
<td>GPC.</td>
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<td>for DJI Mavic Pro</td>
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<td>$119.00</td>
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<td>for DJI Spark</td>
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<td>$224.90</td>
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**DJI Inspired for DJI Mavic Pro**

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<td>OPLP37098</td>
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**BP 200**

- $199.95
- Also Available in Graphite, Olive, Orange, Silver, Yellow

### DroneGuard Series

**Backpacks for Quadcopters**

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### DJI

**CINESO Station for Inspire 2**

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<tr>
<td>DJIP2DC80G</td>
<td>$899.00</td>
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**CrystalSky Monitors**

- 5.5" High-Brightness (DJJC556) | $469.00 |
- 7.85" High-Brightness (DJJC378) | $599.00 |
- 7.85" Ultra-Bright (DJJC376U) | $849.00 |

**Intelligent Flight Batteries**

- for Spark (DJISP3) | $49.00 |
- for Mavic (DJMP25FB) | $84.09 |
- for Phantom 4 Pro (DJIP4PA6B) | $159.00 |

**Battery Safety Charging Sack**

- for LiPO and NiMH Batteries | $499.00 |
- Small 8.5 x 7.2 x 1" (VE1641) | $14.99 |
- Large 11.3 x 9 x 1" (VE1642) | $18.60 |

**ND Filter Starter Kit**

- for DJI Phantom | $79.99 |
- Phantom 4 Pro/Advanced (THPNTMP4K) | $79.99 |

**Battery Safety Charging Sack**

- for DJI Mavic Pro | $99.99 |
- for DJI Phantom 4 | $99.99 |

**Cinema Series Vivid Collection**

- CONNEX (AMN0911MS01) | $1,599.00 |
- Long Range Receiver (AMN091601) | $1,749.00 |

**AMMON L**

- Video Glasses | $799.00 |

**AEGANT Glyph**

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**VENOM**

- Video Glasses | $799.00 |

**EPOSON Moverio BT-300**

- FPV Drone Edition | $799.00 |

**Brother**

- AirScouter WD-330C | $1,699.00 |
- AirScouter WD-200B | $999.00 |

**EAGLE**

- FPV Drone Edition | $799.00 |

**VUFINE Vufine+**

- Wearable Display | $199.00 |

**EAGLE**

- FPV Drone Edition | $799.00 |

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**TBS Vendetta 2**
Racing Drone (RTF)
- 240-Sized Carbon Fiber Arms and Body
- TBS PowerCube with fastest F3 board available
- Cobra Champion CP2205/2300kV Motors
- Quick-replace Arms/M30 Connectors
- Compatible with PPM, SBUS, XBUS, Spektrum R/C Systems
- GoPro 3/4 & Mobius / Runcam Mount Included

Quadcopter Only, No RC Receiver

Bundle with Backpack & Remote

---

**AMIMON**
Falcore Racing Drone Kit
with HD FPV System, Transmitter, and Battery
- Top Speed of 80 mph
- CONNEX ProSight HD FPV Video Downlink
- Carbon Fiber Monocque
- Flex Propeller Arms Dislocate On Impact
- Teolless Motor Removal
- F3-Based Flight Control System
- Shield Flight Mode for Beginners
- Automatic Stop and Land Function

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**Racing Drones & Accessories**

**Runner 250 Pro**
Racing Drone

**VIFLY**
R220 [RTF]
Racing Drone

**BLADE**
Torrent 110 FPV
Racing Drone

**BLADE**
Inductrix FPV
Racing Drone

**FAT SHARK**
AttitudeV4
Anniversary Edition Headset

**Teleporter V4**
Video Headset

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**LILLIPUT**
329/DW
7” FPV Monitor with Dual Receivers

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**RACER**
Taranis X9D Plus
Mode-2 Transmitter

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**DX6**
SPEKTRUM for RC Aircraft

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**Venom**
75C 4S
FPV Drone Racing LiPo Battery

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**Pro Charger 3**
7 Amp Charger

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**RunCam**
Swift Mini
Camera with 2.8mm Lens