

Manual HD Freestyle: 5-Inch DJI O4 Pro + ELRS System

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Why this package fits

This is the right path if you already have simulator or manual-flight experience and want a repairable five-inch outdoor freestyle system. It combines DJI O4 video with a separate ELRS control link and requires deliberate LiPo charging, setup and maintenance.

Choose another path if you are completely new, want stabilized footage or do not want LiPo charging and repair responsibilities.

Budget:	Highest relative complete-system cost
Environment:	Mostly outdoors
Video:	DJI O4 HD digital with ELRS control
Experience:	Simulator practice or prior manual FPV

Package-level safety note

This five-inch quad is a high-powered manual aircraft and is not appropriate as a first unsupervised FPV aircraft. Use simulator practice, verify Betaflight receiver mapping, arming and failsafe, conduct initial tests without propellers, and fly only in an appropriate open area. GPS does not provide obstacle avoidance or make the aircraft autonomous. Follow all applicable registration, Remote ID, visual-line-of-sight and operating requirements.

Complete system purchase checklist

This is one coordinated system, not a collection of unrelated recommendations. Start with the Core System items, then add the required supporting and safety equipment before flying. Optional upgrades can wait.

Core System: Buy These First

1. Drone: iFlight Nazgul Evoque F5 V3 O4 6S HD

Exact variant: Standard version with GPS pre-installed and iFlight ELRS 2.4GHz receiver

The aircraft at the center of this system.

Compatibility: Select Standard Ver. (GPS Pre-installed) and iFlight ELRS 2.4GHz RX. The aircraft includes the DJI O4 Air Unit Pro, Borg Mini F7 flight controller, Borg Mini 60A ESC and XING2 2207 1750KV motors. Its ELRS receiver matches the selected Boxer Max radio, while DJI O4 supplies video to Goggles 3. Do not select No Receiver, Crossfire or the DJI-controller configuration for this package. Before first flight, confirm that the Boxer and aircraft receiver use compatible ExpressLRS major firmware versions. Bind them and verify channel mapping, switch assignments, arming, flight modes, telemetry/link quality and failsafe with the propellers removed.

Included with this package: DJI O4 Air Unit Pro, Borg Mini F7 flight controller, Borg Mini 60A ESC, XING2 2207 1750KV motors, GPS pre-installed on the selected Standard version, iFlight ELRS 2.4GHz receiver.

Required | Last checked 2026-07-21

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2. Radio: RadioMaster Boxer Max Radio Controller (M2)

Exact variant: Black, ELRS, FCC and Mode 2

The controller used to operate this aircraft.

Compatibility: Internal 2.4GHz ELRS matches the iFlight ELRS receiver. Select Black, ELRS, FCC and Mode 2. The Boxer Max includes AG01 CNC Hall gimbals, EdgeTX, case, strap and gimbal protector. The transmitter battery is not included.

Required | Last checked 2026-07-21

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3. Goggles: DJI Goggles 3

Exact variant: DJI digital goggles compatible with O4 Air Unit Pro

Receives the aircraft's video feed.

Compatibility: DJI Goggles 3 are compatible with the DJI O4 Air Unit Pro installed in the aircraft. Video uses the DJI O4 link, while aircraft control remains on the separate ELRS link.

Required | ASIN B0CS6L6D6J | Last checked 2026-07-21

[Check Price on Amazon](#)

4. Flight batteries: iFlight Fullsend 6S 1550mAh 150C LiPo Battery

Exact variant: XT60H-F connector, quantity 2

Powers the aircraft and matches its required voltage and connector.

Compatibility: This is the current 6S battery offered by iFlight for the Nazgul configuration. The XT60H-F connector mates with the aircraft XT60 connection. Quantity two provides a usable initial flight set without introducing a questionable Amazon battery listing.

Required | Last checked 2026-07-21

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5. Charger: HOTA D6 Pro

Exact variant: AC/DC dual-channel 1S-6S balance charger

Charges and stores the selected flight batteries correctly.

Compatibility: Supports 1S through 6S lithium balance charging, storage mode, dual-channel operation, XT60 connections and ordinary AC operation. The charger includes an AC power cord, so no separate DC power supply is required for normal household AC use. The selected XT60 main-power extensions and 6S balance extensions complete the charging connection while the batteries remain inside the BAT-SAFE. Retain the Amazon affiliate offer only while it resolves to the exact HOTA D6 Pro; otherwise use the verified RaceDayQuads listing.

Required | ASIN B0D4MC4GPC | Last checked 2026-07-21

[Check Price on Amazon](#)

Required Before You Fly

6. Radio battery: RadioMaster 2S 7.4V 6200mAh LiPo Battery

Exact variant: Boxer-compatible transmitter battery

Powers the selected controller.

Compatibility: Designed to fit the RadioMaster Boxer battery compartment and required because the Boxer Max does not include a battery. Order it with the radio because RadioMaster restricts shipment of standalone batteries.

Required | Last checked 2026-07-21

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7. Balance extensions: BAT-SAFE JST-XH Long Balance Wire Set

Exact variant: 2S through 6S, 12-inch extensions; quantity 2 sets

Lets the balance connector reach the charger while the battery remains inside the safety enclosure.

Compatibility: Each set contains only one 6S JST-XH extension. Quantity two sets are required to balance-charge two selected 6S batteries simultaneously using both HOTA channels while keeping both batteries inside the BAT-SAFE. Use one 6S lead from each set.

Required | Last checked 2026-07-21

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8. Main-power extensions: RDQ XT60 Male-to-Female Extension Cable

Exact variant: Four-inch, 14AWG, quantity 2

Lets the main battery lead reach the charger while the battery remains inside the safety enclosure.

Compatibility: Extends the main XT60 charging connection through the BAT-SAFE charging opening so each battery can remain inside the enclosure while the HOTA charger stays outside. Quantity two supports both charger channels.

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9. USB-C power supply: Anker Nano 45W USB-C PD Charger

Exact variant: 45W compact charger with included six-foot USB-C cable

Supplies the charger with the required input power.

Compatibility: Provides a shared USB-C power source for the Boxer Max, Goggles 3 and Remote ID module. These devices can be charged sequentially using their supplied or compatible cables.

Required | ASIN B0DPKRC84P | Last checked 2026-07-21

[Check Price on Amazon](#)

Safety, Maintenance and Legal Requirements

10. Battery safety enclosure: BAT-SAFE

Exact variant: Regular-size insulated steel charging and storage enclosure

Provides a safer place to charge and store LiPo batteries.

Compatibility: The regular BAT-SAFE has sufficient internal space and watt-hour capacity for the selected pair of 6S 1550mAh batteries. Its double-wall insulated steel enclosure and flame arrestor reduce exposure, but it does not make LiPo charging risk-free. Use the required balance and main-power extension cables and never charge unattended.

Required | ASIN B07DXJBRBB | Last checked 2026-07-21

[Check Price on Amazon](#)

11. Smoke stopper: VIFLY ShortSaver 2

Exact variant: XT60 electronic smoke stopper with selectable current limit

Limits current during first power-up and electrical troubleshooting.

Compatibility: Use during the first bench power-up and after electrical repairs to limit current if a short circuit or excessive current draw is present. It supports XT60, XT30 and 2S through 6S input. It is recommended diagnostic protection, not a replacement for visual inspection, continuity testing, correct wiring or proper battery safety. Retain the Amazon affiliate offer only while it resolves to the exact VIFLY ShortSaver 2; otherwise use the verified RaceDayQuads listing.

Recommended | ASIN B088TVNVNM | Last checked 2026-07-21

[Check Price on Amazon](#)

12. Spare propellers: iFlight Nazgul 5140 Tri-Blade Propellers

Exact variant: Three sets/six pairs, 5.1x3.5x3, 5mm hub

Provides replacement propellers matched to the selected aircraft.

Compatibility: Contains six clockwise and six counter-clockwise Nazgul 5140 tri-blade propellers, providing three complete spare quad sets. The 5.1x3.5x3 specification and 5mm hub match the selected Nazgul configuration. Verify propeller orientation before installation.

Recommended | Last checked 2026-07-21

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13. Hex drivers: MIP Hex Driver Wrench Set Gen 2

Exact variant: MIP9602; 1.5mm, 2.0mm and 2.5mm metric drivers

Provides the tools required for normal assembly and maintenance.

Compatibility: Precision-ground dedicated drivers covering the common 1.5mm, 2.0mm and 2.5mm fasteners used on the aircraft. MIP manufactures these from tool-steel drill blanks with close tolerances, reducing the likelihood of damaged or stripped fasteners. Use these instead of low-quality multipurpose drivers for routine frame and electronics maintenance.

Required | ASIN B0CWPSBY7Q | Last checked 2026-07-21

[Check Price on Amazon](#)

14. Prop tool: TBS Ethix Multi-Purpose Prop Tool

Exact variant: Dual 8mm ratcheting prop sockets with 2.0mm and 2.5mm hex drivers

Provides the wrench sizes required for propeller installation and removal.

Compatibility: The dual 8mm sockets fit the standard M5 propeller nuts used on the five-inch aircraft. Together with the MIP driver set, this covers propeller installation and the common frame and electronics fasteners. Verify propeller orientation before installation and avoid overtightening the propeller nuts.

Required | Last checked 2026-07-21

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15. Remote ID: Dronetag Beacon Gen 2

Exact variant: Self-contained FAA-accepted broadcast Remote ID module

Adds broadcast Remote ID where required.

Compatibility: The Nazgul exceeds 250 grams and ordinarily requires FAA registration and Remote ID for U.S. outdoor operations outside an applicable exception such as a FRIA. Add the Beacon Gen 2 serial number to the aircraft's FAA DroneZone registration inventory and confirm that it is configured, mounted securely and broadcasting properly before applicable operations. Under FAA rules, an aircraft using a Remote ID broadcast module must remain within visual line of sight. The module is not required for lawful operation entirely within a FRIA when every FRIA condition is satisfied.

Required where Remote ID applies | Last checked 2026-07-21

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Optional Upgrades: These Can Wait

16. Storage: Kingston Canvas Go! Plus 128GB microSDXC

Exact variant: SDCG3/128GB, quantity 2

Provides recording storage for the selected video system.

Compatibility: DJI lists the exact Kingston Canvas Go! Plus 128GB card for Goggles 3 and the O4 system. Quantity two allows separate recording in the O4 Air Unit Pro and goggles. Format each card in the device where it will be used.

Recommended | ASIN B0858MY6RT | Last checked 2026-07-21

[Check Price on Amazon](#)

Final compatibility check before ordering

- Select the Standard Ver. with GPS pre-installed and iFlight ELRS 2.4GHz receiver.
- Do not select No Receiver, Crossfire or the DJI-controller configuration for this package.
- DJI Goggles 3 must be paired to the DJI O4 Air Unit Pro for video.
- RadioMaster Boxer Max internal ELRS 2.4GHz must bind to the iFlight ELRS receiver.
- Use 6S XT60 flight batteries, 6S balance charging, storage mode, and the BAT-SAFE extension cables.

After everything arrives

1. Spend meaningful time in a simulator before the first real 5-inch flight.
2. Bench-check ELRS binding, Betaflight receiver mapping, channel mapping, props-off arming and failsafe behavior.
3. Charge, store and transport 6S LiPo batteries with deliberate safety habits and applicable Remote ID planning.

Operating note

This checklist is educational and package-specific. Follow manufacturer instructions, current FAA requirements, local rules, battery safety practices and site conditions before flight.