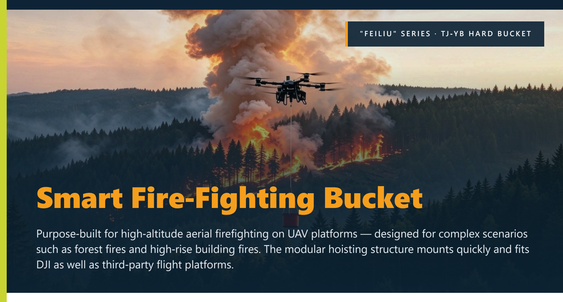

"FEILIU" SERIES · TJ-YB HARD BUCKET

Smart Fire-Fighting Bucket

Purpose-built for high-altitude aerial firefighting on UAV platforms — designed for complex scenarios such as forest fires and high-rise building fires. The modular hoisting structure mounts quickly and fits DJI as well as third-party flight platforms.

Why the Smart Fire-Fighting Bucket?

A rigid aerial firefighting bucket that brings water directly above the fire — where ground equipment cannot reach.

IP68 Waterproof & Dustproof

Passed rigorous sealing verification: continuous operation for 24 hours at 2 m underwater, withstanding lake-water immersion and extinguishing-agent soaking in extreme conditions.

Multi-Bucket Rotation

Automatically recognizes and connects up to 5 buckets at the same time — rotate buckets so water or foam keeps flowing without interruption over the fire.

Heat-Resistant Aluminium Body

One-piece cast aviation aluminium alloy with a high-temperature baking finish, rated to operate within 5 m above the fire source under intense thermal radiation.

Core Features

Smart valve control, independent power, wireless links and wide platform compatibility in one bucket.

1 Smart Valve Control

Precise drop control with fast response.

- Valve release: 0–100% opening, linear adjustment.
- Response time ≤ 0.6 s.
- Max flow 45 L/s or 50 L/s depending on model.

2 Built-in Smart Battery

Independent power with full BMS protection.

- High-rate lithium-ion battery pack (4S).
- BMS monitors over-temperature, over-current, over-charge and over-discharge in real time.
- Charges to 80% in 40 minutes (18 W magnetic fast charging).

3 Wireless Control & OTA

Multiple control links, easy firmware updates.

- Control: PSDK / Ethernet port / serial port / receiver.
- Standalone remote controller also supported.
- Wireless OTA firmware upgrade via APP.

4 Quick Mount · Wide Compatibility

Modular hoisting structure for fast installation and flexible operation.

- Fits DJI FC100 / FC200 / FC30.
- DJI agras drones with standalone remote controller.
- Third-party drones with standalone remote controller.

Application Scenarios & Product Photos

Aerial water drop and suspended flight, from open-water intake to drop delivery.



▼ Product photo



Forest firefighting



High-rise firefighting



Bottom view — release valve



Interior view — bucket body

Typical Deployment Scenarios

Designed for complex firefighting environments — from wildland fire lines to high-rise buildings.

FOREST

Forest Firefighting

Self-fills from lakes, pools or tanks through top or bottom water intake, then drops water or foam precisely along fire lines that ground crews cannot reach quickly.

HIGH-RISE

High-Rise Building Fires

Carries water or foam directly above rooftop and facade fires, with a drop area adjusted by flight altitude for flexible suppression from the air.

CONTINUOUS

Continuous Agent Delivery

Multi-bucket rotation operation keeps the agent flowing without interruption — one bucket drops while the next is already refilling, greatly improving delivery efficiency.

REFILL

Fast Water Intake

Top and bottom intake modes let the bucket dip-fill from natural water sources, cutting the turnaround time between drops.

Product Parameters

Specification	Details
Model Range — TJ-YB Series Rigid Bucket (6 sizes)	
TJ-YB-40	Max capacity 40 L (adjustable 25–40 L) · Bucket weight ≤ 5 kg · Max flow 45 L/s
TJ-YB-60	Max capacity 60 L (adjustable 40–60 L) · Bucket weight ≤ 7 kg · Max flow 45 L/s
TJ-YB-100	Max capacity 100 L (adjustable 60–100 L) · Bucket weight ≤ 8 kg · Max flow 45 L/s
TJ-YB-160	Max capacity 160 L (adjustable 120–160 L) · Bucket weight ≤ 12 kg · Max flow 50 L/s
TJ-YB-180	Max capacity 180 L (adjustable 140–180 L) · Bucket weight ≤ 14 kg · Max flow 50 L/s
TJ-YB-200	Max capacity 200 L (adjustable 160–200 L) · Bucket weight ≤ 15 kg · Max flow 50 L/s
Common Specifications	
Product name	"Feiliu" Series Smart Fire-Fighting Bucket (Rigid)
Model series	TJ-YB-40 / 60 / 100 / 160 / 180 / 200
Extinguishing agents	Clean water / fluoroprotein foam / water-based fire agent
Valve release	0–100% valve opening, linear adjustment
Response time	≤ 0.6 s
Drop coverage	30–200 m^2 (depending on flight altitude)
Protection rating	IP68, whole unit
Body material	Aviation aluminium alloy, fire-proof paint finish
Control methods	PSDK / Ethernet port / serial port / receiver, plus standalone remote controller
Firmware upgrade	Wireless OTA upgrade via APP
Power supply	Built-in independent battery — high-rate lithium-ion pack (4S)
Charging time	40 minutes to 80% (18 W magnetic fast charging)
Multi-bucket operation	Auto-recognition of up to 5 buckets, rotation operation
Water intake	Top and bottom intake modes supported
Compatible platforms	DJI FC100 / FC200; DJI agras and third-party drones with standalone remote controller (TJ-YB-40 also fits DJI FC30)
Package contents	Bucket ×1, silicone plugs ×2, slings ×3, shackle ×1, air-end control box ×1, dual Type-C cable ×1, power adapter ×1, magnetic charging cable ×1, product certificate ×1, warranty card ×1, inspection checklist ×1, aluminium aviation case ×1

Direct Manufacturer — Suzhou, China

- ✓ 10+ years in product development and innovation.
- ✓ In-house assembly — every unit functionally tested before shipping.
- ✓ OEM / ODM supported: colors, branding, packaging and parameter tuning.



MOQ	LEAD TIME	WARRANTY	PACKAGING
1 Set	**7–15 Days**	**12 Months**	**Aviation Case**
Sample orders welcome	Working days after deposit	Main components	+ Export carton

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