

中国民用航空局
CIVIL AVIATION ADMINISTRATION OF CHINA

型号合格证数据单
TYPE CERTIFICATE DATA SHEET

编号/No: TC0100A-ZN
版次/Revision: 00
型别/Model:
DJIZM48-3WWDZ-U75A
批准人/Approved By:



职务/Title: 副局长
日期/date: 2025-04-27

本数据单是型号合格证（编号：TC0100A-ZN）的组成部分，它规定了获得该型号合格证的产品满足中国民用航空规章相关适航要求的条件和限制。

This data sheet, which is part of Type Certificate (No:TC0100A-ZN), prescribes condition and limitation under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Chinese Civil Aviation Regulation.

型号合格证持有人/Type Certificate Holder:

深圳市大疆创新科技有限公司/ SZ DJI Technology Co., Ltd.

深圳市南山区西丽街道西丽社区仙元路53号大疆天空之城T2大堂/Lobby of T2, DJI Sky City,
No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen

第一部分：DJIZM48-3WWDZ-U75A 型别技术数据/ SECTION A: Model DJIZM48-3WWDZ-U75A TECHNICAL DATA

A I. 概述/ General

1. 产品型别/Model: DJIZM48-3WWDZ-U75A
2. 类别/Category: 限用类航空器/ Restricted category aircraft
3. 型号合格证申请日期/Date of Application for TC: 2024-11-29
4. 型号合格证批准日期/TC Issue Date: 2025-04-27

A II. 生产依据 Production Basis

依据生产许可证（PC）生产，生产许可证编号：PC0067A-ZN/ Production in accordance with the Production Certificate (PC), Production Certificate Number: PC0067A-ZN

A III. 审定基础/Certification Basis

《中型民用无人驾驶航空器系统适航标准及符合性指导材料（试行）》（民航适函〔2024〕52号）中适用的适航要求 / Applicable airworthiness requirements in *Medium Civil Unmanned Aircraft Systems Airworthiness Standard and Compliance Guidance Materials (Trail)* (CAAC AW Letter [2024] No.52)

A IV. 技术特性和使用限制/Technical Characteristics and Operational Limitations

1. 设计定义/Design Definition
详见《DJI-T100 产品设计说明》(DAT100-OA-MC1-DR-001, 版本 1.4 及后续批准版次)Details in DJI-T100 Product Design Specification (DAT100-OA-MC1-DR-001, Version 1.4 and the subsequent approved versions)
2. 航空器/Aircraft
a. 外形尺寸/Dimension 3220×3224×975mm（机臂、桨叶展开/with arms and propellers unfolded） 1820×1840×975mm（机臂展开、桨叶折叠/with arms unfolded and propellers folded） 1105×1265×975mm（机臂、桨叶折叠/with arms folded and propellers folded） b. 重量/Weight a) 最大起飞重量（海平面附近）/Max. take-off weight-NSL: 148kg（喷洒/Spraying） 149.9kg（果树喷洒/ Orchard Spraying） 149.9kg（播撒/Spreading） 149.9kg（吊运/Lifting） b) 最大载重（海平面附近）/Max. payload-NSL: 75kg（喷洒/Spraying） 75kg（果树喷洒/ Orchard Spraying）

	75kg (播撒/Spreading) 85kg (吊运/Lifting)
c)	最大起飞重量 (最大起飞海拔高度处) /Max. take-off weight (at Max. take-off altitude): 127kg
d)	最大载重 (最大起飞海拔高度处) /Max. payload (at Max. take-off altitude): 54kg (喷洒/Spraying) 52kg (果树喷洒/ Orchard Spraying) 52kg (播撒/Spreading) 62kg (吊运/Lifting)
c.	重心范围/C.G. range 详见《DJI-T100 产品设计说明》(DAT100-OA-MC1-DR-001, 版本 1.4 及后续批准版次) Details in DJI-T100 Product Design Specification (DAT100-OA-MC1-DR-001, Version 1.4 and the subsequent approved versions)
d.	飞行模式/Flight Mode a) 手动控制/Manual Control: 手动作业模式、增强型手动作业模式 (带定高)、航测作业模式/Manual Mode, Manual Plus mode, Aerial Mapping Mode b) 自动控制/Automatic Control: 航线作业模式、A-B 点作业模式、全新智能航线模式、自动扫边、果树航线作业模式/Route Operation mode, A-B mode, New Intelligent Route mode, Auto Boundary Mode, Orchards Route Operation mode
e.	飞行精度/Flight control accuracy a) 偏航距离/Track accuracy: ≤0.5 m (水平和垂直方向/horizontal and vertical) b) 速度偏差/Velocity accuracy: ≤0.5 m/s
f.	悬停精度 (GNSS 信号良好) /Hovering precision (With good GNSS signals): a) 启用 RTK/With RTK enabled: 1cm+1ppm (水平/horizontal), 1.5cm+1ppm (垂直/vertical) b) 未启用 RTK/Without RTK enabled: ±60cm (水平/horizontal), ±30cm (垂直/vertical)
g.	最大起飞海拔高度/ Max. take-off altitude (above sea level) 4500m
h.	最大飞行真高/Max. operating Height (above ground level)

30m AGL

i. 最大飞行半径/Max. operating radius

2000m

j. 最大俯仰角度/Max. tilt angle

18°

k. 速度/Speed

a) 最大作业飞行速度/Max. operating speed:

13.8m/s

b) 最大飞行速度 (GNSS 信号良好) /Max. flight speed (with good GNSS signals):

13.8m/s

c) 最大爬升速度/Max. climb speed:

3m/s (空载/Empty)、2m/s (满载/Fully loaded)

d) 最大垂直下降速度/Max. vertical descent speed:

3m/s (空载/Empty)、2m/s (满载/Fully loaded)

l. 续航能力/Endurance

a) 最大悬停时间 Max.hover endurance:

6.1min (最大起飞重量 149.9kg/ Max.Take-off weight 149.9kg)

b) 最大飞行时间/Max.flight endurance:

10min (最大起飞重量 149.9kg (喷洒模式标准流量) / Max.Take-off weight 149.9kg (in Spraying with standard flow))

m. 最大可承受风速/Max. wind resistance

6m/s

n. 整机防护等级/Dust and Water-resistance rating

IP56 (GB/T4208-2017)

o. 电机/Motor

类型/Type:

永磁无刷直流电机/Brushless DC electric motor
with permanent magnets

型别/Model:

15516

装机数量/No. of Installed Units:

8

KV 值/KV value:

60rpm/V

最大功率/Max. power:

8650W/motor

最大转速/Max. PRM:

2100rpm (配 R6223-B 桨/with R6223-B propeller)

电机最高安全温度/ T_max (safe.):

220°C

p.	电调/ESC	
	类型/Type:	矢量控制电调/ ESC with FOC
	型别/Model:	15516 Electronic Speed Controller
	装机数量/No. of Installed Units:	4
	最大工作电流（持续）/ I_max (cont.):	122A
	最大工作电压/V_max:	60.9V
	电调最高温度/T_max:	120℃
q.	螺旋桨/Propeller	
	类型/Type:	可折叠非快拆固定螺距螺旋桨/Foldable, non-quick-release, fixed-pitch propeller
	型别/Model:	R6223-B
	装机数量/No. of Installed Units:	8 对/8 pairs
	材质/ Material:	碳纤维复合材料/Carbon fiber composited
	直径/ Diameter:	62 inch
	螺距/ Pitch:	22.5-26 inch
r.	动力电池/Battery	
	类型/Type:	锂离子电池/Li-ion
	型别/Model:	DB2160
	装机数量/No. of Installed Units:	1
	标称电池电压/V_nom:	52.5V/52.78V
	电池额定容量/C_rated:	41000mAh with 0.5Cmin (25℃)
	工作环境温度/T_amb:	-5℃~40℃
	电池自加热/Battery self-heating:	无/No
s.	导航制式/Navigation Mode	
	a) 国内/ Domestic:	BeiDou B1I/B2I/B3I/B2a/B2b/B1C
	b) 海外/ Overseas:	GPS L1/L2, GLONASS F1/F2, BeiDou B1I/B2I/B3I, Galileo E1/E5b, QZSS L1/L2
3.	遥控器/Remote controller	
a.	型别/Model	TKPL2
b.	装机数量/No. of Installed Units	1
4.	指挥控制数据链路/Command and Control Data Link	
a.	视距链路/Direct data link	

c) 工作频率/Operating frequency: 2.4000-2.4835 GHz 5.725-5.850 GHz d) 有效作用距离（无干扰、无阻挡）/ETR (w/o interference and blockage): SRRC: 5 km MIC/KCC/CE: 4 km FCC: 8 km b. 4G a) 网络制式/Network Mode: TDD-LTE, FDD-LTE, WCDMA b) 4G 融合功能/4G fusion function: 支持与无线电通信融合使用/Support for joint use with radio communications	5. 使用限制/Operational Limitations
a. 运行场景限制/Operating Scenario limitation: 应用于农林牧渔作业场景下的植保、播撒、投饵、吊运等作业/ Applied in agricultural, forestry, animal husbandry, and fishery operations such as plant protection, spreading, baiting and payload-lifting. b. 运行地面区域限制/Operating ground area weather limitation: 不在人口密集区域上空飞行/Not flying over densely populated areas. c. 运行空域限制/Operating airspace limitation: 除非经空中交通管理机构批准，不在融合空域飞行/ Non-converged airspace unless approved by the Air Traffic Management authority. d. 与空中交通管制的通讯/ Communication with Air Traffic Control: 不涉及（仅为农林牧渔作业场景）/ N/A (Only for Agricultural, Forestry, Animal Husbandry, and Fishery Operations Scenarios)) e. 载人/Carrying people: 禁止载人/Prohibited from carrying people. f. 飞行规则/Flight Rules 视距内运行/ VLOS g. 最小飞行机组/Minimum Flight Crew: 1 人/机（1 pilot/UAS） h. 环境温度限制/Environmental Temperature Limit: 0℃~40℃ i. 运行天气限制/Operating weather limitation: 天气良好（非大雨、刮风（超过 6m/s）、下雪、结冰、雾天或极端天气(包括但不限于闪电)）/Good weather (no heavy rain, wind (exceeding 6m/s), snow, icing, fog or extreme weather	

(including but not limited to lightning))	
j.	夜间运行条件/Night operating condition: 允许夜间运行（但不支持仿地绕行功能，用户需谨慎飞行）/Night operation is allowed (Terrain Follow and Bypassing Functions are disabled during night or in dark, users shall fly with caution)
k.	与空中和地面第三方应保持的最小安全距离/Minimum safe distance to be maintained from third parties in the air and on the ground: 6m
l.	应急恢复区（含备降、迫降或坠机区域）特征说明/Description of emergency recovery area characteristics, including alternate landing site, emergency landing or crash area: 无电线杆、高压线及树木等障碍物，同时远离马路、水面、人群和牲畜/Areas without obstacles such as telephone poles, high-voltage lines, or trees, and far away from roads, water, people, and livestock.
m.	其他运行限制/Other operating limitation 起飞、降落以及空中上下货时，请与飞行器保持 6m 以上的距离，请勿在飞机正下方进行空中上下货/During takeoff, landing, and mid-air loading and unloading, please maintain a distance of more than 6 meters from the aircraft. Do not load or unload cargo directly under the aircraft 起降场进行人员管控，防止第三方人员误入/Personnel control is carried out at the take-off and landing area to prevent third parties from accidentally entering.
注 1 /Note 1: 本数据单中参数，如无条件特别说明，均按静止空气和海平面标准大气条件给出/ The parameters in this datasheet, unless otherwise specified, are given under conditions of still air and standard atmospheric conditions at sea level.	
注 2 /Note 2: 未列出的其他技术参数，可详见《DJI-T100 产品设计说明》(DAT100-OA-MC1-DR-001, 版本 1.4 及后续批准版次)/For the other parameters and operational limitations not listed, please refer to DJI-T100 Product Design Specification (DAT100-OA-MC1-DR-001, Version 1.4 and the subsequent approved versions).	
注 3 /Note 3: 无人机空机重量制造误差为 ±3% / The manufacturing tolerance for the empty weight of the drone is ±3%.	

A V. 批准的技术资料/Approved Technical Documents

- 《DJI-T100 飞行手册文件清单》(DAT100-OA-MC1-DR-006, 版本 1.1 及后续批准版次)
DJI-T100 Flight Manual Document List (DAT100-OA-MC1-DR-006, Version 1.1 and the subsequent approved versions)
- 《DJI-T100 持续适航文件清单》(文件编号: DAT100-OA-MC1-DR-007, 版本 1.0 及后续经批准的版本)
DJI-T1000 Continuous Airworthiness Documents List (DAT100-OA-MC1-DR-007, Version 1.0 and the subsequent approved versions)
- 《DJI-T100 产品设计说明》(DAT100-OA-MC1-DR-001, 版本 1.4 及后续批准版次)
DJI-T100 Product Design Specification (DAT100-OA-MC1-DR-001, Version 1.4 and the subsequent approved versions)

A VI. 注释/Notes
注释

第二部分：管理信息/SECTION B: ADMINISTRATIVE INFORMATION

B I.型号持有人记录/Type Certificate Holder Record
 深圳市大疆创新科技有限公司
 SZ DJI Technology Co., Ltd.

B II.修订记录/ Change Records

型号合格证数据单编号	版次	主要修订内容	修订日期
TC0100A-ZN	00	初次颁发	2025 年 04 月 27 日