

TP-M400 Transport Case



1. Project Overview

The TP-M400 Transport Case is a cargo container designed for DJI Matrice 400. The case has a 17 L capacity and weighs 1.6 kg, excluding transported cargo. Its aluminum-alloy frame and EPP cushioning protect the contents. It is bolted below the aircraft, with an offset design that leaves the downward infrared sensor unobstructed. Confirm the cargo, payload margin, mounting security, balance and aircraft operating limits before flight.



Product Parameter

1	weight	1.6kg
2	capacity	17L
3	material quality	alufer, EPP
4	installation site	Below the abdomen
5	fixed form	bolt
6	material quality	alufer, EPP
7	remarks	Non-obstructive infrared sensor

TP-M400 Transport Case Product Diagram



Scenario-Based Applications

The TP-M400 Transport Case, when installed on the DJI Matrice M400, can be widely deployed across various operational scenarios—including emergency rescue operations, field operations, medical supply transportation, industrial and mining maintenance, and rural distribution in mountainous areas—enabling comprehensive, end-to-end material delivery even in complex environments.

In the field of emergency rescue operations—particularly when road access is disrupted due to floods or geological disasters, leaving isolated islands or hazardous areas inaccessible to ground personnel—drones can be utilized to rapidly deliver emergency kits, drinking water, food, and basic rescue equipment, thereby establishing an aerial supply chain at the disaster site to provide trapped individuals with essential relief supplies and mitigate the safety risks associated with personnel entering these hazardous areas on foot.

Designed for mountainous field operations and industrial/mining maintenance scenarios—including high-altitude construction sites, forest ranger stations, remote exploration locations, and isolated power and water resources monitoring stations—this solution enables the aerial delivery of operational tools, spare parts, and logistical supplies for field personnel, thereby replacing the need for manual transport of materials across mountainous terrain, reducing the physical workload of field workers, and enhancing the efficiency of material replenishment at remote sites.

For short-haul medical supply transportation operations, this solution can serve remote mountainous areas or regions with restricted transportation access by facilitating the air transport of small medical supplies—such as emergency medical consumables and laboratory sampling specimens; the container features built-in thermal insulation and shock absorption capabilities, providing protection for the contents during flight and ensuring the safety of the entire transportation process.

This product is designed to operate in island and riverside/waterfront environments, enabling the replenishment of small-item supplies at monitoring posts where land-based transportation is restricted—such as isolated islands or riverbank tidal flats; it can also be used for delivering small-item supplies to remote mountain villages, addressing the logistical challenges associated with delivering goods to areas with poor transportation access and meeting the diverse material delivery needs of agriculture, forestry, and rural communities. In the event of unexpected situations—such as urban waterlogging or road closures—it can be deployed to isolated locations to deliver essential daily necessities, supporting specialized urban emergency response operations.