

SAI-HUB DD

SPECTRO AI

Autonomous Drone Mission Management Software



SAI-HUB DD – Technical Specifications

Product Overview

Specification	Value
Host Infrastructure	Brain-Box D
Primary Function	Autonomous drone mission management with embedded AI
Deployment Model	On-premises
Internet Requirement	Not required
Online Accessibility	Optional via SAI-HUB Online subscription
Cloud Dependency	None
VPN Support	Supported

System Compatibility

Specification	Value
Dock Compatibility	DJI Dock 2, DJI Dock 3
Drone Compatibility	DJI Matrice 4DT, 3DT, 3D
Camera Support	IR, Visible, Wide-angle
Operating Modes	Offline, Online, Hybrid
Multi-Sensor Data Collection	Simultaneous data collection from visible, IR, and wide-angle cameras

The screenshot displays the SPECTRO AI SAI-HUB DD interface. On the left, a sidebar lists mission points: Site security A451, Site security A450, Site security A451, Site security A449, Site security A448, Site security A447, Site security A446, Site security A445, and Site security A444. Each point has a status icon (checkmark, trash, or play). The main area shows an aerial map with a cyan flight path and numerous black location pins. A bottom-left inset shows a thermal camera feed. A bottom-right inset shows a thermal image with a red bounding box around a person, labeled 'person'. The top status bar indicates 'SPECTRO AI', 'RTK 2', 'RTK 7', and '45%'.

SPECTRO AI

Intelligent · Autonomous · Inspection

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Mission Planning

Specification	Value
Point of Interest	Supported
360° Inspection	Supported
Area Scanning	Supported
Patrol Route	Supported
Linear Inspection	Supported
Custom Missions	Supported

Geofencing & Airspace Control

Specification	Value
Geofencing	Supported
Multi No-Fly Zones	Supported
Vector & Raster Map Upload	Supported
GeoTIFF & Offline Maps	Supported

Mapping & Location

Specification	Value
GPS Positioning	Supported
Latitude & Longitude Estimation	Supported
Real-Time Localization	Supported
Geo-Referenced Data Output	Supported

Mission Scheduling

Specification	Value
Time & Date-Based Scheduling	Supported
Manual Override	Supported
Offline Scheduling	Supported
Recurring Missions	Supported

Flight Logging

Specification	Value
Pilot Name Logging	Supported
Flight Duration Logging	Supported
Annotations	Supported



AI Processing

Specification	Value
Processing Location	Brain-Box D (Local)
Performance	Approx. 30–60 FPS
AI-Assisted Missions	Supported
Privacy Mode	Supported
Multi-Zoom Detection Support	Simultaneous data collection from visible, IR, and wide-angle cameras
Cross-Sensor AI Processing	AI detection supported across multiple zoom levels and sensor types

Data Management

Specification	Value
Local Library	Included
NAS Integration	Supported
FTP Integration	Supported
Annotation Sharing	Copy, export, or forward annotations to other teams/users
Annotation Collaboration	Team-based sharing of detection annotations
Internal Media Gallery	Built-in local gallery for images, videos, and detection results
Direct Download Capability	Direct download of media and detection data from local system

Sensor & Trigger Integration

Specification	Value
JSON Trigger Support	Supported
LoRa Trigger	Available (Upgraded Brain-Box)
Hardware/Jack Trigger	Supported



Point Of Interest



360 Waypoints



Area Scanning



Linear Inspection



Patrol Route



Custom

Firmware & System Management

Specification	Value
Firmware Updates	Supported
Offline Updates	Supported
System Monitoring	Included
Multi-Dock Management (Online Mode)	Centralized monitoring of multiple Dock + Brain-Box D systems via SAI-HUB Online
Per-Dock Brain-Box Requirement	Each DJI Dock requires a dedicated Brain-Box D
External Hardware Trigger Configuration	Configure control of external ports (jacks, doors, actuators) via Brain-Box D
Hardware Integration Licensing	External trigger configuration available as optional feature (extra cost)

