INTEGRATED SYSTEMS

TRUE TERRAIN FOLLOWING

DATASHEET

DESCRIPTION

The True Terrain Following enables the drone (UAV) to accurately follow the terrain during the flight, based on data received from radar or laser altimeter. True Terrain Following enables the drone to fly at low and constant AGL altitudes (as low as 1 meter) without a need to import precise Digital Elevation Model (DEM) height-map into UgCS.

Components:

- UgCS SkyHub device
- Radar or laser altimeter
- Mounting kit, cables

Software:

- UgCS v4.3 or higher
- UgCS Custom Payload Monitor v3.17
- Mobile device: UgCS for DJI v2.36 or higher

Features

- Seamless integration with UgCS mission planning software
- Optimal for using with distance-critical payloads
- Configurable target and safe altitudes
- Configurable horizontal flight velocity

SPECIFICATIONS

GENERAL	
Minimum flight altitude	0.5 m
Maximum flight altitude for radar altimeter	50 m
Maximum flight altitude for laser altimeter	10 m above water 50 m above other surfaces

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GENERAL	
Maximum horizontal flight velocity	20 m/s
Fail-safe functioning	• Altimeter failure • Going beyond safe altitude limits
Compatible drones	• DJI M210 / M210 V2 • DJI M600 / M600 Pro • DJI M300 RTK • Custom frames based on DJI A3 flight controller • Pixhawk with ArduCopter / PX4
Supported altimeters	• Nanoradar NRA24 radar altimeter • Lightware SF30/D laser altimeter
Kit weight	170 g with mountings