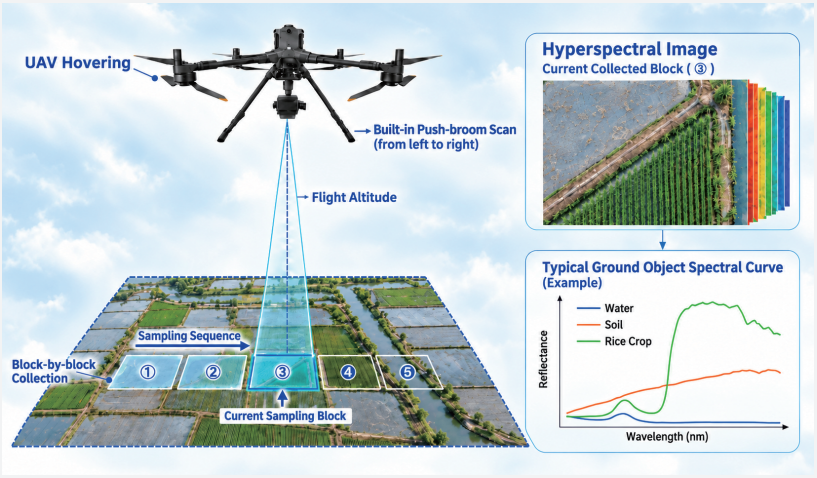
FIGSPEC

FS60-CX UAV Hover Built-in Push-broom Hyperspectral Camera





The FS60-CX UAV Hover Built-in Pushbroom Hyperspectral Camera adopts transmission grating spectroscopy. It supports area scan and line scan modes, with a spectral range of 400–1000 nm and spectral resolution better than 2.5 nm. It features 1200 spectral channels and 1920 spatial channels. Mounted on the DJI M400 flight platform, the system enables real-time viewing of sampling positions and hyperspectral images via the ground station. It is bundled with waypoint planning, image stitching and hyperspectral analysis software to deliver integrated workflows from flight acquisition and data correction to image analysis.

- Supports both external pushbroom and hover built-in pushbroom dual modes
- Spectral Range：400-1000nm
- Spectral Resolution (FWHM)：2.5nm
- Spectral Bands：1200
- Spatial Pixels：1920



Parameters

Model	FS60-CX
Scanning Method	Area Scan Mode / Line Scan Mode
Dispersion Method	Transmission Grating Dispersion
Spectral Range	400–1000 nm
Spectral Bands	1200
Spectral Resolution (FWHM)	2.5 nm
Slit Width	25 μm
Transmission Efficiency	60%
Stray Light	0.50%
Spatial Pixels	1920
Pixel Size	5.86 μm × 5.86 μm
Frame Rate	Full Band 128 fps
Detector	CMOS
SNR(Peak)	600/1
Camera Output Interface	USB3.0
Camera Lens Interface	C-Mount
Heat Dissipation Method	Internal Air Cooling
Camera Dimensions	172 mm × 100 mm × 120 mm
Camera Weight	1964.4 g
Accessories	USB flash drive, warranty card, certificate of conformity, packing list, tool kit
Optional Accessories	Reflectance calibration plate, diffuse reflection cloth, leveling adapter, extended tripod, disc
Lens Focal Length	25 mm
Field of View	> 25°
Flight Platform	DJI M400/M350
Operation Mode	Easy operation, no professional UAV pilot required, single-person operation available
Observation Mode	Real-time observation of aircraft sampling locations, hyperspectral images and spectral data via ground station
Correction Method	Reflectance correction, regional correction with batch processing support
Data Format	Compatible with spe format, hdr format
Application Software	FIGSPEC Merge stitching software, FIGSPEC Studio image analysis software, waypoint planning software