

EQUIPAMIENTO Y SOFTWARES

DRONES

MARCA	MODELO	SENSOR	USO
DJI	Mavic Pro	RGB, Multispectral	Mapir RGN, OCN
DJI	Matrice 200 V2	Térmico, RGB	Zenmuse XT2
DJI	Matrice 600 Pro	Hyperespectral	Co-aligned Headwall
DJI	Mavic 3 Enterprise	Térmico, RGB	Termal, RGB
DJI	Avata	RGB	Monitoreo RGB
DJI	Mavic 3 Enterprise	Multispectral, RGB	Multispectral, RGB

SENSORES

MARCA	MODELO	FILTRO	RANGO
MAPIR	Survey 3	OCN	Multispectral
MAPIR	Survey 3	RGN	Multispectral
FLIR	Zenmuse XT2	Térmico	Temperatura
HEADWALL	Co-aligned	Nano – Swir	Multibanda 400-2500nm

EQUIPOS DE CAMPO

Field equipment	Amount	Manufacturer	Model
Chlorophyll fluorometer	1	Hansatech Instruments	FMS-1
Infrared gas analyzer	1	PP Systems	CIRAS-2
Steady-state porometer	1	PP Systems	PMR-5
Canopy Analysis System	1	Delta-T	SunScun
Sunshine sensor	1	Delta-T	BF5
Water potential datalogger	1	PSYPRO	
Chlorophyll meter	1	Minolta	SPAD 502
Chlorophyll & Polyphenols meter	1	Force A	Dualex
High-resolution Infrared camera	1	Flir	I40
Fluorometro PAM 2500	1	Walz	PAM 2500
Spectroradiometer	1	ASD	Model 4 Hi-Res
GNNS Posicionador Global	1	Trimblex	V6
GNSS DJI D-RTK 2 De Alta Precisión + Trípode	1	DJI	D-RTK 2

EQUIPOS DE LABORATORIO

Laboratory equipment	Amount	Manufacturer	Model
Cold room storage (40 m2)	1		
Gas chromatograph	1	Shimadzu	GC-2014

Spectrophotometer	1	Jingke Scientific Instruments	UVS765 RT
CO2 and O2 gas analyzer	1	Mocon	325
CO2 and O2 gas analyzer	1	PBI Dansensor	CheckPoint
Fruit firmness tester	1	BioWorks	Firmtech II
Automatic titrator	1	Easy Schott	Titroline
Thermo-compensated refractometers	5	Atago	Master T
Blender	1	IKA	Ultra-Turrax T 25
Digital scale 2000g x 0.001g	1	Radwag	WTB 2000
Digital scale 4100g x 0.1g	1	Gram	NX-4100
Digital scale 6200g x 0.1g	1	Balanza	LSV 6200
Analytical scale 320g x 0,02g	1	Shimadzu	TX323L
Freezer -20 °C	2	Fensa	FFH 4450
Freezer -40 °C	1	Haier	DW-40L262
Photographic camera	1	Nikon	D5100
Digital calipers.	6		
Refrigerators.	2		

SOFTWARES

Softwares	Amount	Manufacturer	Model
Loggernet	1	Campbell Sci	Version 3.4
The Unscrambler	2	CAMO	Version10
Matlab	1	Matlab	Version 2009
Pix4D Enterprize	1		
Agisoft Photoscan Profesional	1		
Hyperespectral III	1	Headwall Photonics	
SpectralView	1	Headwall Photonics	
AgView	1	Headwall Photonics	
UgCS PRO	1	SPH Engineering	V2022
ImageJ- Fiji	1	Fiji	
LIDARTools	1	Headwall Photonics	
CloudCompare	1		
POSPAc UAV	1		V8.3
Co-Aligned Airborne	1	Headwall Photonics	