FIELD TECHNICIAN QUICK-REFERENCE CHECKLIST

UAV Multispectral / Hyperspectral Payload Radiometric Calibration Checklist

TECHNICIAN NAME:	**Kadeem Manning**	**DATE / TIME:**	____ / ____ / 2026 __:__
LOCATION / STATION:	_____	**SENSOR MODEL:**	MicaSense RedEdge-P / DLS 2
SERIAL NUMBER:	S/N: _____	**WEATHER / AMBIENT:**	Temp: ____°C RH: ____%

Step	Verification Procedure	Operational Target / Criteria	Status
1. Lens Inspection	Inspect all narrow-band optical lenses & filters.	Clean, scratch-free, dry	[ ] Pass [ ] Fail
2. Dark Current Capture	Capture 10 dark current frames with opaque lens caps.	DN noise baseline saved	[ ] Pass [ ] Fail
3. DLS 2 Leveling	Check DLS 2 top-mast mounting & bubble level.	Horizontal level $\le 1.0^\circ$	[ ] Pass [ ] Fail
4. DLS Magnetometer	Execute 3D compass calibration for DLS sensor.	Mag calibration SUCCESS	[ ] Pass [ ] Fail
5. Pre-Flight CRP Target	Capture 3 panel images at 1.0m height without shadow.	Unshaded, panel 30–50% FOV	[ ] Pass [ ] Fail
6. Exposure Check	Verify CRP image digital number (16-bit sensor).	DN 40,000–55,000 (no clip)	[ ] Pass [ ] Fail
7. Ground Spectrometer	Record ASD FieldSpec reference spectra over tarps.	Reflectance baseline recorded	[ ] Pass [ ] Fail
8. Flight Log Sync	Verify GPS / RTK geotagging telemetry stream.	Fixed RTK / GPS Lock (≥ 12 sat)	[ ] Pass [ ] Fail
9. Post-Flight CRP	Capture 3 CRP images immediately post-landing.	Post-calibration panels saved	[ ] Pass [ ] Fail
10. Data Backup	Export raw TIFF band files and DLS log files.	All band channels verified	[ ] Pass [ ] Fail

FIELD NOTES & OBSERVATIONS:

FIELD TECHNICIAN SIGN-OFF & APPROVAL	
Lead Specialist: Kadeem Manning **Role:** Field Calibration & Maintenance Specialist **Document:** Standalone Quick-Reference Checklist	**Signature:** _____ **Sign Date:** _____