



Republic of the Philippines VISAYAS STATE UNIVERSITY

Visca, Baybay City, Leyte

PURCHASE REQUEST

PPMP No.: PPMP-2025-101524-0778

PR No.: GF-2024-11-03137

Date: 11-14-2024

Dept./Office: DFS

Category: Laboratory

Equipment

Section/End-User: Eraie Jane P. Manzano

Project Title/Code: DFS- Capital Outlay-ICT and

Funding Source: General Fund - CO

Technical and Scientific Equipment 2025

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	LI-2200C Plant Canopy Analyzer	unit	1	950,000.00		950,000.00

Specification:

Console (LAI-2270C)

- Sensor Inputs: Two 6-pin connectors for LAI-2250 Optical Sensors. 2 BNC connectors for LI-COR Light Sensors
- Data Storage Capacity: 128 MB of FAT16 memory
- · Keypad: 22 button tactile response keypad
- Display: 128x64 graphics display
- . Communications: USB (as mass storage device)
- Global Positioning System (GPS RADIONOVA® RF Antenna Module):
- Clock: Year, Month, Day, Hour, Minute. Accuracy of ±3 minutes per month
- · Power Requirements: 4 "AA" alkaline, NiMH, lithium batteries
- · Battery Life:
- Size: 20.9 x 9.8 x 3.5 cm (8.2" x 3.9" x 1.4")
- Weight: 0.454 kg (1.0 lb) with batteries

Optical Sensor (LAI-2250)

- . Sensor Inputs: One 6-pin Bulkhead connector for control unit interface
- · Memory:
- · Keypad: 2 button, tactile response keypad
- Clock: Year, Month, Day, Hour, Minute. ± 3 minutes per month. Can be synced with control unit clock when joined with a data cable
- · Power Requirements: 2 "AA" (alkaline, NiMH, lithium) Batteries
- Battery Life: 180 hours of typical operation (based on 2 "AA" alkaline batteries)
- Optics: 1.00° maximum decentering error as measured from center of mass of ring 4. 0.50° maximum magnification error as measured from the center of mass of ring 4
- Radiation Rejection:
- Wavelength Range: 320-490 nm
- Nominal Angular Coverage:
- Lens Coating: MgF2 for improved transmission at oblique angles (external and internal lenses)
- View Caps: Provide azimuthal masking of view into quadrants of 10°, 45°, 90°, 180°, and 270°
- . Diffuser Cap: Used to cover the lens when measuring sky radiation properties for scattering corrections
- Size: 63.8 L x 2.9 W x 2.9 D cm (25.1" x 1.125" x 1.125") (Endcap: 4.4 W x 5.1 D cm; 1.75" x 2.0")

• Weight: 0.845 kg (1.86lbs) with batteries

Environmental Conditions

• Operating Temperature Range: -20 to 50° C

• Humidity Range: 0 to 95% RH (non-condensing conditions)

Storage: -40 to 65 °C

2 Light meter sensor quantum unit 1 55,000.00 55,000.00

Specification:

Absolute Calibration: ± 5% traceable to the U.S. National Institute of Standards and Technology (NIST)

Sensitivity: Typically 5 ?A to 10 ?A per 1,000 ?mol s-1 m-2 Linearity: Maximum deviation of 1% up to 10,000 ?mol s-1 m-2

Stability: < ± 2% change over a 1 year period Response Time: Less than 1 ?s (2 m cable terminated into a 604 Ohm load)

Temperature Dependence: ± 0.15% per °C maximum

Cosine Correction: Cosine corrected up to 82° angle of incidence

Azimuth: < ± 1% error over 360° at a 45° elevation

Tilt: No error induced from orientation

Operating Temperature Range: ?40 °C to 65 °C

Relative Humidity Range: 0% to 95% RH, Non-Condensing

Detector: High stability silicon photovoltaic detector (blue enhanced)

Sensor Housing: Weatherproof anodized aluminum body with acrylic diffuser and stainless steel hardware; O-ring seal on the sensor base

Size: 2.36 cm diameter x 3.63 cm (0.93" x 1.43")

Weight: 24 g head; 60 g base and cable (2 m) with screws

Cable Length: 2 m, 5 m, 15 m, 50 m (6.5', 16.4', 49.2', 164')

	1 3	Wildlife Camera Lens-EF100- 400mm f/4.5-5.6L IS II USM	unit	1	170,000.00		170,000.00	

Specification:

Focal Length: 100 to 400mm
Maximum Aperture: f/4.5 to 5.6

· Lens Mount: Canon EF

· Lens Format Coverage: Full-Frame

Focus Type: Autofocus
Image Stabilization: Yes
Filter Size: 77 mm (Front)
Minimum Aperture: f/32 to 38

. Angle of View: 24° to 6° 10'

• Minimum Focus Distance: 3.22' / 98 cm

Maximum Magnification: 0.31x

. Optical Design: 21 Elements in 16 Groups

• Diaphragm Blades: 9, Rounded • Tripod Collar: Removable and Rotating • Dimensions (ø x L): 3.7 x 7.6" / 94 x 193 mm • Length at Maximum Extension: 10.91" / 277.11 mm • Weight: 3.61 lb / 1640 g TOTAL 1,175,000.00 Purpose: For Laboratory use Funds Available: Checked by: GENESIS C. ALBARICO ALICIA W. FLORES TAC . 701 HEAD, BUDGET OFFICE TWG - Laboratory Equipment Approved by: Noted by: Prepared by: ERAIE JANE P. MANZANO ANGELICA P. BALDOS Signature: PROSE IVY G. YEPES Printed Name: Designation: UNIT HEAD, PROJECT LEADER PRESIDENT, VSU