

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY MATERIALS MANAGEMENT DIVISION Powai, Mumbai 400076

LUMI SOLAR MOBILE SYSTEM: TECHNICAL SPECIFICATIONS

- 1 PV Camera
 - Scientific low-noise full-frame CCD camera with thermoelectric cooling for VIS, NIR imaging
 - Pixel array 1024 x 1024, pixel size 13pm, image area 13.3mm x 13.3mm, standard camera flange
- 2 Near-infrared (NIR) Objective
 - 25mm or 50mm (please select one) focal length, variable focus
 - Advanced transmission in the near-infrared (NIR)
- 3 Objective-Adapters
 - F-mount adapter

4 Software Camera and power supply remote control, display of measurement result in different colour representations orscales, statistical information, various saving functions

- BMP, JPG. TXT, TIF, and raw data
- Automatic background subtraction, Histogram functions, image cropping, intensity diagram.
- 5 Programmable power supply
 - Output: max. 1500W / 0-150V / 0-10A
 - Input: 100-240V-- / 50/60Hz
- 6 Tripod
- Made of aluminium magnesium alloy
- Max. height: 156cm: loading capacity 5kg
- Fully flexible 3D head



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7 Accessories

Cabling (power cables, USB cable, sync cable), tripod adapter plate for camera, CD with software

Upgrade to 4Mpx camera

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Highly Sensitive CCD Matrix PV Camera Sensor

Specifications:

- Sensor format: 2048 x 2048 pixels Pixel
- size 13.5pm x 13.5pm

4 times bigger pixel surface compared to industrial CCDs Scientific low-noise full-frame CCD sensor Camera specifications:

- Hermetically sealed vacuum chamber with integrated thermoelectric cooling, Temperature monitoring,16 bit dynamic range, 1 x trigger-input, 2 x trigger-output (all TTL) USB
- 2.0 high-speed interface