

Department of Geography

Product Type: Ultraviolet Camera Product Name: PiCam Permanent (with spectrometer) Design Number: UV003a

Product Description: The PiCam Permanent (with spectrometer) is part of the family of Ultraviolet (UV) cameras built by VolcanoTech in the Department of Geography, University of Sheffield. The PiCam Permanent (with spectrometer) is designed specifically for usage at volcanoes for measurement of sulphur dioxide (SO₂) emissions. The system has a bespoke dual camera setup, is powered via 12V input, and provides ethernet capabilities. The PiCam Permanent (with spectrometer) incorporates an Ocean Insight spectrometer for calibration.

Specifications:

ConnectionEthernetPower input12V DCOperating voltage5V DCControl2 x Raspberry Pi 3B+Storage (SD Cards)~120 GBStorage (SSD)~1 or 2 TBExterior dimensions406 x 330 x 175 mm (casing only, not including lenses or lens cover)Interior dimensions380 x 266 x 153 mmApproximate weight 4 kg

Camera Specifications Lens Custom Triplet

28°
21°
648 by 486 (binned)
.png
Max 0.33 Hz

Data sheet approved by,

Dr Tom D. Pering 14/03/2024