Product Type: Ultraviolet Camera

Product Name: PiCam Permanent (without spectrometer)

Design Number: UV003b

Product Description: The PiCam Permanent (without spectrometer) is part of the family of Ultraviolet (UV) cameras built by the Department of Geography, University of Sheffield. The PiCam Permanent (without spectrometer) is designed specifically for usage at volcanoes for measurement of sulphur dioxide (SO<sub>2</sub>) emissions. The system has a bespoke dual camera setup, is powered via 12V input, and provides ethernet capabilities. The PiCam Permanent (without spectrometer) does not come with incorporated spectrometer or optical fibre for calibration, although comes with infrastructure for self-installation, including lens (scope).

## Specifications:

ConnectionEthernetPower input12V DCOperating voltage5V DC

**Control** 2 x Raspberry Pi 3B+

Storage (SD Cards) ~120 GB Storage (SSD) ~1 or 2 TB

**Exterior dimensions** 406 x 330 x 175 mm (casing only, not including lenses or lens cover)

Interior dimensions 380 x 266 x 153 mm

Approximate weight 3.8 kg

## **Camera Specifications**

Lens Custom Triplet

FOV (x) 28° FOV (y) 21°

**Image resolution** 648 by 486 (binned)

**Image format** .png

Acquisition rate Max 0.33 Hz

Data sheet approved by,

Dr Tom D. Pering 14/03/2024