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Award

ADM Camera

University of Exeter

F15: Voluntary ex ante transparency notice
Notice identifier: 2022/S 000-018059
Procurement identifier (OCID): ocds-h6vhtk-034d32
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Section I: Contracting authority/entity

I.1) Name and addresses

University of Exeter

Northcote House

Exeter

EX4 4QH

Contact

Jill Callicott

Email

procurement@exeter.ac.uk

Country

United Kingdom

NUTS code

UKK4 - Devon

National registration number

RC000653

Internet address(es)

Main address

http://www.exeter.ac.uk

I.4) Type of the contracting authority

Body governed by public law

I.5) Main activity

Education

Section II: Object

II.1) Scope of the procurement

II.1.1) Title

ADM Camera

Reference number

UOE-2022-032-JC

II.1.2) Main CPV code

- 31682210 - Instrumentation and control equipment

II.1.3) Type of contract

Supplies

II.1.4) Short description

The University intends to purchase two fast ultra-low noise cameras based on the e-APD SAPHIRA which offers 320x256 pixels and enables noise-free multiplication gain and non-

destructive readout abilities at wavelengths between 1 and 2.5 micrometer technology for use in astronomical observations.

The university also intends to intend to upgrade the existing CR1-2016-002 camera.

II.1.6) Information about lots

This contract is divided into lots: No

II.1.7) Total value of the procurement (excluding VAT)

Value excluding VAT: 700,000 EUR

II.2) Description

II.2.3) Place of performance

NUTS codes

- UKK4 - Devon

II.2.4) Description of the procurement

The delivery requirements of both the upgraded and new cameras are

The University intends to purchase two fast ultra-low noise cameras based on the e-APD SAPHIRA which offers 320x256 pixels and enables noise-free multiplication gain and non-destructive readout abilities at wavelengths between 1 and 2.5 micrometer technology for use in astronomical observations.

Specification:-

1. The cameras must use the Leonardo SAPHIRA sensor (Mark 20 or newer; with ME1001 ROIC) based on the electron-avalanche photodiode technique with pixel formats of 256x320 pixel and electronics with 16 bit quantization

2. The cameras must have a quantum efficiency > 60% in the near-infrared wavelength regime between 1.0 and 1.75 micrometer. A set of filters (HKHK band filters or customer-agreed alternatives) shall provide efficient long-wavelength suppression.

3. The cameras must support full-frame read-out rates up to 3500 Hz, with the possibility to read at least 3 sub-windows at higher frame rate

4. The cameras must use pulse tube cooling to reach an operational temperature