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Award

Purchase of Hamamatsu Streak Camera

Cardiff University

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Notice identifier: 2025/S 000-082551

Procurement identifier (OCID): ocds-h6vhtk-05f4fc

Published 12 December 2025, 2:41pm

Scope

Description

The Hamamatsu C16910 Universal Streak Camera system is essential to restore a unique capability for ultrafast time-resolved spectral measurements at Cardiff University. This system enables time-resolved photoluminescence (TRPL) experiments with sub-picosecond resolution, which are critical for investigating the dynamic behaviour of photo-excited carriers in semiconductor materials and ultra-fast optoelectronic devices, such as quantum dot lasers.

The previously held system, also manufactured by Hamamatsu, is now non-functional, obsolete, and irreparable. It was approximately 25-30 years old and had been operating until recently. Replacement parts are incompatible with the legacy hardware, and thus repair is not possible. The replacement system must ensure continuity of prior capability, and for future uses must be able to satisfy the requirements of a number of research projects, with one requirement of this specification including a patented internal MCP technology, which drastically reduces dark noise by several orders of magnitude (e.g. 25,000 times) compared to external image intensifier configurations.

Contract 1. Hamamatsu C16910 Universal Streak Camera system

Supplier

- Hamamatsu Photonics UK Limited

Contract value

- £376,734 excluding VAT
- £452,080.80 including VAT

Above the relevant threshold

Earliest date the contract will be signed

5 January 2026

Contract dates (estimated)

- 12 January 2026 to 27 February 2026
- 1 month, 16 days

Main procurement category

Goods

CPV classifications

- 38540000 - Machines and apparatus for testing and measuring

Contract locations

- UKL22 - Cardiff and Vale of Glamorgan

Other information

Conflicts assessment prepared/revised

Yes

Procedure

Procedure type

Direct award

Direct award justification

Single supplier - intellectual property or exclusive rights

The university requires a Streak Camera with very specific capabilities. Amongst a long list of required features are two noteworthy requirements which validate the reasoning of directly sourcing this equipment. Those are the following -

Requirement for patented internal MCP technology

The replacement system must ensure continuity of prior capability

Supplier

Hamamatsu Photonics UK Limited

- Public Procurement Organisation Number: PYQN-3218-MQDR

2 Howard Court, 10 Tewin Road,

Welwyn Garden City

AL7 1BW

United Kingdom

Email: info@hamamatsu.co.uk

Region: UKH23 - Hertfordshire

Small or medium-sized enterprise (SME): No

Voluntary, community or social enterprise (VCSE): No

Contract 1. Hamamatsu C16910 Universal Streak Camera system

Contracting authority

Cardiff University

- Public Procurement Organisation Number: PHVT-4343-HWYR

Procurement Services

Cardiff

CF24 4HQ

United Kingdom

Email: rower4@cardiff.ac.uk

Website: <http://www.cardiff.ac.uk/business/why-work-with-us/for-suppliers>

Region: UKL22 - Cardiff and Vale of Glamorgan

Organisation type: Public authority - sub-central government

Devolved regulations that apply: Wales