

Denmark-Aarhus: Laboratory, optical and precision equipments (excl. glasses)

OJ S 161/2023 23/08/2023

Contract award notice

Supplies

Legal Basis:

Directive 2014/24/EU

Section I: Contracting authority

I.1. Name and addresses

Official name: Aarhus Universitet
National registration number: 31119103
Postal address: Nordre Ringgade 1
Town: Aarhus C
NUTS code: DK042 Østjylland
Postal code: 8000
Country: Denmark
Contact person: Jens August Aastrup Munch
E-mail: aumu@au.dk
Telephone: +45 93522562
Internet address(es):
Main address: <https://www.au.dk/>

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**

Purchase of the HARPIA-TA Ultrafast Spectroscopy Extension - 2023-0505126

II.1.2. Main CPV code

38000000 Laboratory, optical and precision equipments (excl. glasses)

II.1.3. Type of contract

Supplies

II.1.4. Short description

The purchase of the HARPIA-TA Ultrafast Spectroscopy Extension from Light Conversion will be used to investigate molecular reaction dynamics. The device will be integrated into an existing laser setup to provide ultrafast measurements of photoreactions and excited state dynamics. The HARPIA-TA is the only device on the market with the ability to fully integrate into the existing Light Conversion Pharos laser setup.

II.1.6.

Information about lots

This contract is divided into lots: no

II.1.7. Total value of the procurement

Value excluding VAT: 155 981,00 EUR

II.2. Description

II.2.3. Place of performance

NUTS code: DK042 Østjylland

II.2.4. Description of the procurement

The customer is an associate professor at the Chemistry Department of Aarhus University and head of the surface spectroscopy facility SurfLab. We intend to extend our existing Pharos laser setup with a HARPIA-TA Ultrafast Spectroscopy Extension for a planned research project.

Reactions, chemical conversion and excited state dynamics all take place at molecular timescales – femtoseconds to picoseconds. The properties and performance of an active material is in large parts determined by these processes. Typical examples include catalysis, nucleation, photoreactions, quantum oscillations and electron transfer. However, relative to static, steady-state properties, it is extremely challenging to obtain information at ultrafast timescales about molecular structure, molecular motion and energy transfer. Ultrafast pump probe spectroscopy can provide this information and has proven to be a reliable tool to probe ultrafast molecular processes. For a pump probe experiment it is required to prepare trains of femtosecond laser pulses across a wide range of wavelengths using an optical parametric amplifier (OPA) with exquisite control of temporal spacing, relative phase and spectral shape to drive, pump, a chemical reaction. Then a synchronous train of broad-band pulses must be generated as the UV/VIS probe. It is a requirement for the planned experiments, that the pump pulse energy must be tunable without any gaps between 2 micrometers and 210 nanometers. Since the experiment will be offered as a facility for outside users, it is a minimum requirement that the setup integrates fully with the existing experiment and that the alignment of the pulse preparation can be done electronically and be maintained by the vendor with online access. The setup must be extendable to meet future user needs such as microscopy modules and additional beam options.

The Customer has performed a systematic search for commercially available pulse shapers. The HARPIA-TA in combination with an ORPHEUS NEO is the only instrument available on the market offering the integration, performance and hands-off reliability needed for successful operation. The HARPIA-TA provides us with extremely high-performance pump and probe pulses as well as the fully integrated data acquisition and analysis options needed to visualize molecular reactions, motions and energy transfer with unprecedented detail.

II.2.5. Award criteria

Price

II.2.11. Information about options

Options: no

II.2.13. Information about European Union funds

The procurement is related to a project and/or programme financed by European Union funds:
no

II.2.14. Additional information

Section IV: Procedure

IV.1. Description

IV.1.1. Type of procedure

Award of a contract without prior publication of a call for competition in the Official Journal of the European Union in the cases listed below

- The works, supplies or services can be provided only by a particular economic operator for the following reason:
 - absence of competition for technical reasons

Explanation:

I have performed a systematic search for commercially available pump probe spectrometers. The HARPIA-TA offered by Light Conversion is the only extension for a Yb-based Pharos laser system available on the market offering the minimum requirements needed for the proposed research:

- Seamless integration into the software and hardware of the current Yb-based laser system
- Designated software control, fully compatible with PHAROS
- Upgradable with microscopy, third beam delivery, nanosecond transient absorption modules
- Optical parametric amplifier with integrated monitoring and diagnostic tools
- Integrated OPA and spectroscopy system solution that enables down to 210 nm excitation
- Comparable optical path for second and third OPA harmonic

IV.1.3. Information about a framework agreement or a dynamic purchasing system

IV.1.8. Information about the Government Procurement Agreement (GPA)

The procurement is covered by the Government Procurement Agreement: yes

IV.2. Administrative information

IV.2.8. Information about termination of dynamic purchasing system

IV.2.9. Information about termination of call for competition in the form of a prior information notice

Section V: Award of contract

A contract/lot is awarded: yes

V.2. Award of contract

V.2.1. Date of conclusion of the contract

18/04/2023

V.2.2. Information about tenders

Number of tenders received: 1

Number of tenders received from SMEs: 0

Number of tenders received from tenderers from other EU Member States: 1

Number of tenders received from tenderers from non-EU Member States: 0

Number of tenders received by electronic means: 1

The contract has been awarded to a group of economic operators: no

V.2.3.

Name and address of the contractor

Official name: Light Conversion

Town: Vilnius

NUTS code: LT Lietuva

Country: Lithuania

The contractor is an SME: no

V.2.4. Information on value of the contract/lot

Total value of the contract/lot: 155 981,00 EUR

V.2.5. Information about subcontracting**Section VI: Complementary information**

VI.3. Additional information**VI.4. Procedures for review****VI.4.1. Review body**

Official name: Klagenævnet for udbud

Postal address: Toldboden 2

Town: Viborg

Postal code: 8800

Country: Denmark

E-mail: klfu@naevneneshus.dk

Telephone: +45 72405708

Internet address: <https://erhvervsstyrelsen.dk/klagenaevnet-for-udbud>

VI.4.3. Review procedure

Precise information on deadline(s) for review procedures:

Please contact Aarhus University, if you have a comment about this notice - udbud@au.dk

In case of complaints about tenders or decisions, e.g. award of contracts covered by Section II or III in the Danish Public Procurement Act must be submitted to the Complaints Board for Public Procurement (Klagenævnet for Udbud) within 45 calendar days from the day after the contractor published a notice in the Official Journal on the conclusion of a contract. At the latest concurrently with submission of an appeal to the Complaints Board for Public Procurement, the complainant must inform the Contracting Authority of the alleged infringement, and whether the appeal is to be referred to the board.

VI.4.4. Service from which information about the review procedure may be obtained

Official name: Konkurrence- og Forbrugerstyrelsen

Postal address: Carl Jacobsens Vej 35

Town: Valby

Postal code: 2500

Country: Denmark

E-mail: kfst@kfst.dk

Telephone: +45 41715000

Internet address: www.kfst.dk

VI.5. Date of dispatch of this notice

18/08/2023