

Vergabebekanntmachung

1) Name und Anschrift des Auftraggebers und dessen Beschaffungsstelle

Bezeichnung	ITWM
Zusatz	Fraunhofer Institut für Techno- und Wirtschaftsmathematik
Postanschrift	Fraunhofer Platz 1 67663 Kaiserslautern
Telefon-Nummer	+49 631316004174
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2) Name des beauftragten Unternehmens

Bezeichnung	IRScope GmbH
Postanschrift	Ernst-Ruska-Ring 15 07745 Jena

3) Verfahrensart

Verhandlungsvergabe ohne Teilnahmewettbewerb nach UVgO

4) Art und Umfang der Leistung

Aktenzeichen	4501031569 PR1244740
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Prepare Broad FRS: Datenerfassungs- und Verarbeitungssystem

For a Fraunhofer-internal research project focusing on fast-scan optical sampling technology in the Erbium-band, we need 1 unit of an 8-channel data-acquisition and -processing system for two-color interferometrically-calibrated spectroscopy data with the below specification and kindly ask for an official offer:

- 8 analog input channels (female SMA connector), each with a sample rate of 200 MS/s, 16 bit vertical resolution, and an acquisition bandwidth of DC to 150 MHz.
- Possibility to synchronously and continuously record for at least 5 minutes (best effort 30 minutes)
- Fast evaluation of two-color interferometry data (at most 2 seconds of processing time per second of measurement time for two-color interferometry). Real-time evaluation speed is included on a best effort basis.
- Evaluation includes robust processing of the calibration data channels (robust to noise, baseline drift, and harmonics due to electrical nonlinearities or remaining laser-repetition-rate signal), derivation of the delay axis from the calibration data, subsequent interpolation of the spectroscopy data to the extracted delay axis, and calculation of the respective complex-valued spectra.
- Streaming of the complex-valued spectra via a 10 GBit/s network interface during processing
- Control web interface

5) Zeitraum der Leistungserbringung

startend Q3 2026

Datum der Information

02.07.2026 - 16:10 Uhr