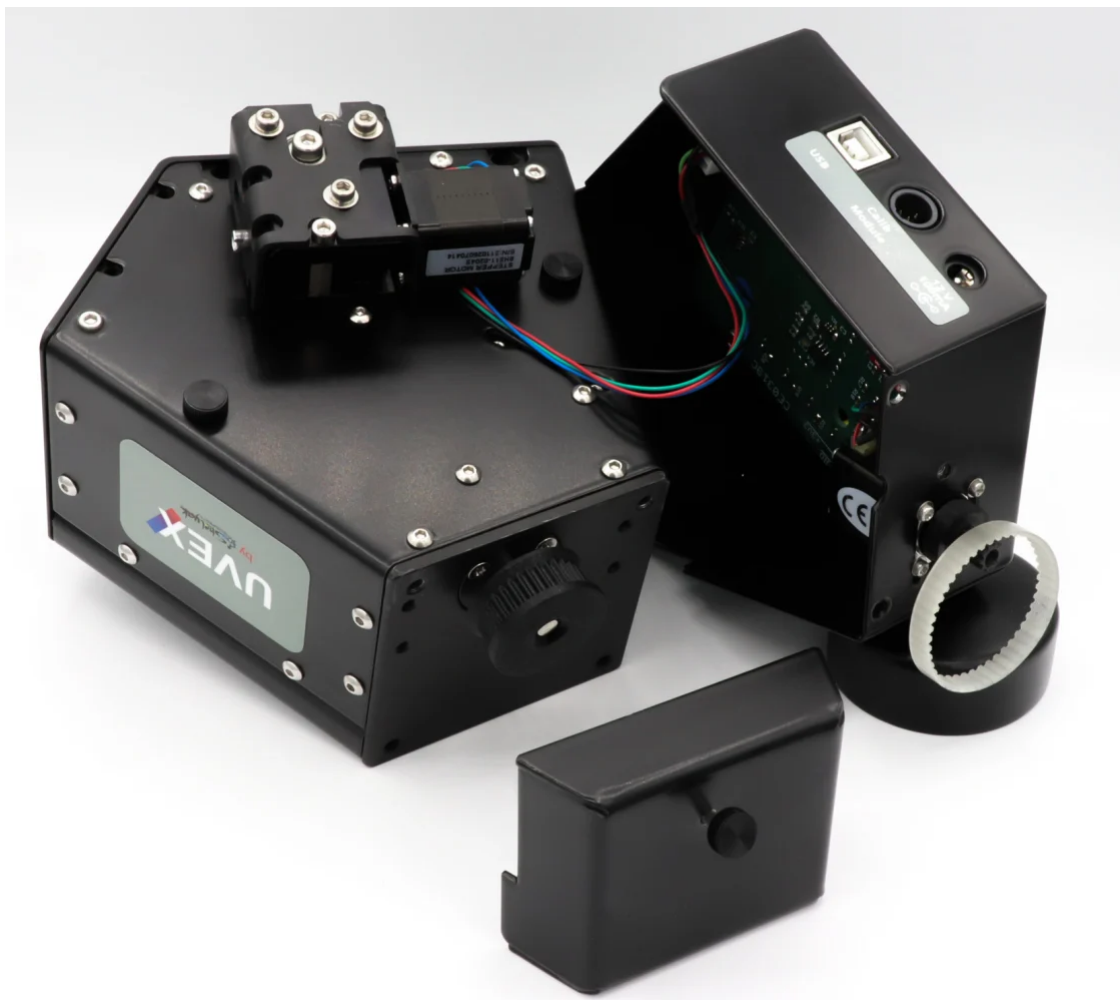




Stars won't look the same

## All about the UVEX Motors module

### UVEX Motors module: enter in the era of remote spectroscopy



The motorization of the UVEX is available from 30/09/2022

[See the product sheet](#)



## What does motorization bring?

The UVEX Motors module allows:

- to control the instrument remotely (spectro focusing, grating angle, flat lamps and calibration),
- to avoid touching the instrument during observations (risk of disconnecting a cable, modifying a setting),
- automate (or even robotize) observations.

### Motorization:

You can choose the center wavelength you want to observe (by changing the grating angle). It is even possible to observe at different wavelengths during an observing session.

You can also correct the focus of the spectroscope, to get the best optical performance.

### Integrated lamp control:

The module includes the control of the external calibration module. It allows you to activate the calibration lamp and the flat lamp, or simply put it in the "black" position. This function is identical to that of the SPOX module.

Order

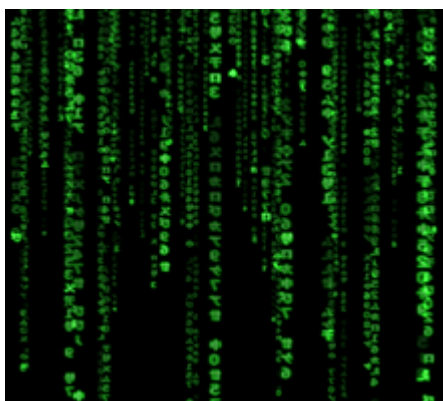
## New version of Demetra UVEX, optimized for remote use

The UVEX Motors module is accompanied by a new version of DEMETRA:

- Calibration "by set line". We establish once and for all the law of dispersion, and we can readjust it on a well identified line. Useful for calibrating extreme spectra (in the UV or IR), where there are few reference lines,
- Motor module management,
- Image sequences (to automate several series of images).
- Support of CMOS cameras (CMED correction step).



## USIS protocol: a standard for astronomical spectroscopy



### USIS Protocol

During the development of the UVEX Motors module release, Shelyak has defined the [USIS protocol](#), to communicate between the computer and the spectroscope. This is a widely documented protocol... that we'll



### USIS Controller

On the occasion of the release of the UVEX engine module, Shelyak provided an executable allowing

use for all the instruments to come in the future.

This protocol is set to become the standard for astronomical spectroscopy, to reduce future development efforts (hardware and software).

To help disseminate this protocol we provide several tools to developers, such as a C library and the ability to use a Raspberry Pi Pico to simulate a "USIS device".

the remote management of the engine without having to use DEMETRA.

[More about USIS](#)



## Come talk with us during our Zoom workshop

- Shelyak invites you to a [zoom workshop](#) on 10/13/2022 where you can ask all your questions about the UVEX Motors and the upgrade of the UVEX.
- [François Cochard](#) and [Olivier Garde](#) will lead this workshop and will present the functionalities of this remote control.
- [Workshop in English only](#)



Workshop registration

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