

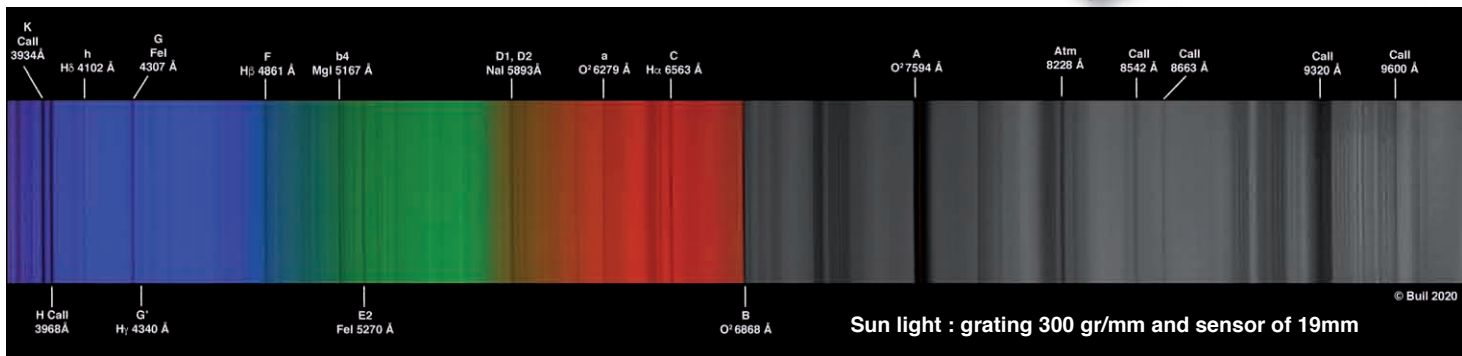
## Push the limits of Spectroscopy !

Discover the new generation of Shelyak spectroscopes with **UVEX** and take spectra from **350 nm to 1  $\mu$ m** to get the best from new cameras and achromatic telescopes.

- Easy set up and tuning.
- Remote control and automatic observations capability.
- Low to medium resolutions with a simple change of grating.
- Precise scientific results thanks to Demetra software.

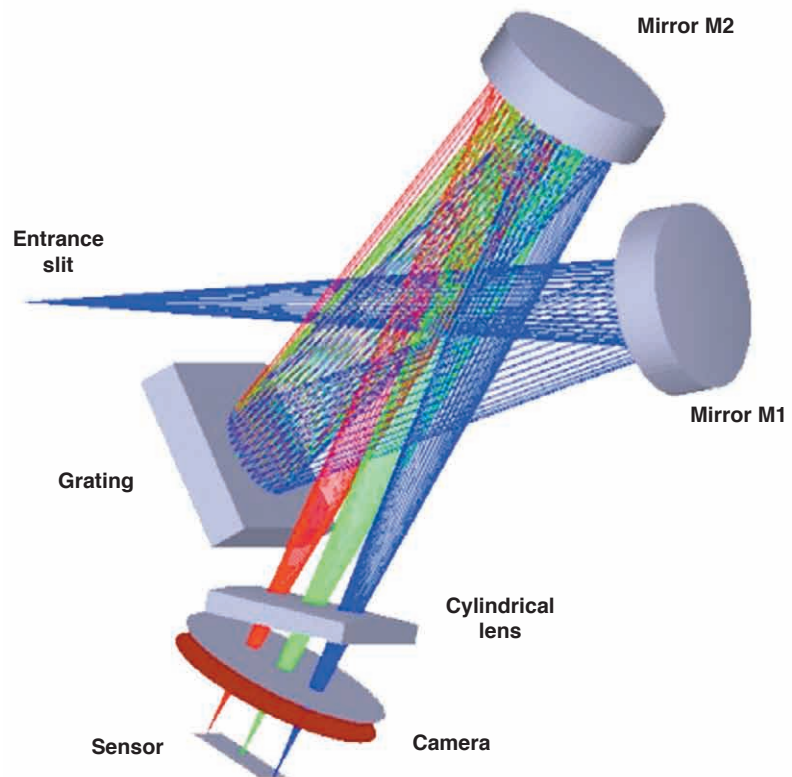


Skilled Observers



### Features

- Multi-purpose spectroscope with wide wavelength range (from near UV to near IR: **from 350nm to 1  $\mu$ m**).
- Compact and rigid: **145 x 140 H=120 mm**  
Weight: **1,2Kg**
- Large choice of spectral resolutions (**R=400 to R=7000**)
- Internal focusing adjustment using an external multi-turn button.
- Quickly interchangeable grating without additional adjustments (keep focus).
- Compliant with Alpy guiding and calibration modules.
- Optimized for Ritchey-Chrétien telescopes diameter up to 350mm at F/8.
- Adapter plate for several brands of spectral cameras.
- Vernier for adjusting the wavelength range for each grating. (simply slips under the adjustment needle).
- Grating and focus motorization possible for remote control use.



### Schematic diagram

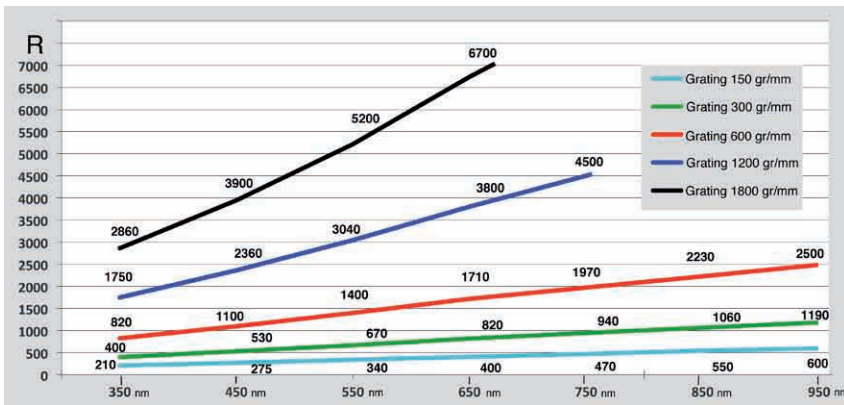
UVEX optical design was made by Christian Buil based on a so-called «cross» Czerny-Turner spectroscope to obtain a compact and rigid device. A cylindrical lens is added near the detector to correct the astigmatism of the initial Czerny-Turner combination.

Diagram: Christian Buil

## Grating modules

UVEX can be used with a large choice of gratings. The grating change is done in few seconds. A keying device ensures the right orientation of the grating. Each grating modules is shipped with a case to safely store your grating.

The UVEX is delivered with a 600 gr/mm grating blazed at 500nm which gives a resolving power  $R = 1700 @ 650 \text{ nm}$ . You can complete your spectroscope with other gratings (in option) from 150 to 1800 gr/mm to get resolutions from  $R = 400$  to  $7000 @ 650 \text{ nm}$ .

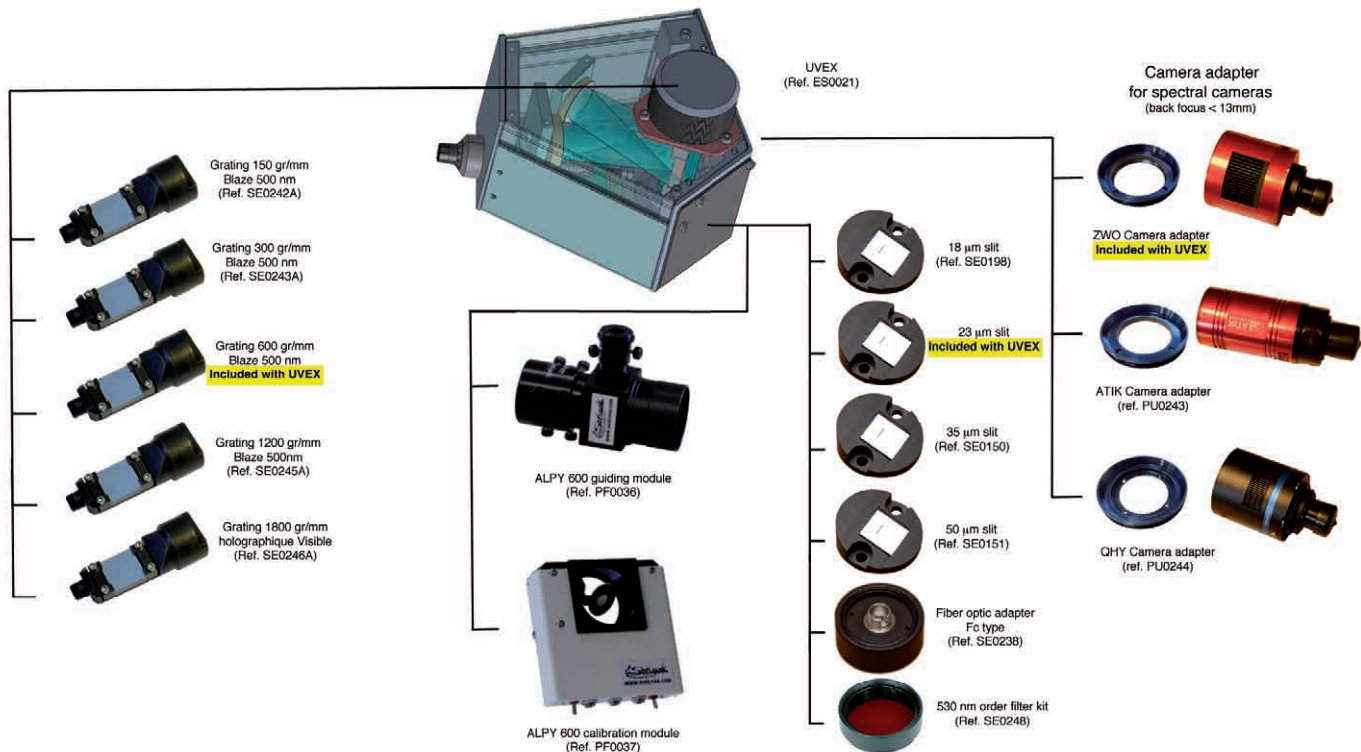


## Camera adapter

UVEX can be used with various cameras. The only restriction is having a back focus of 13mm maximum. Camera adapter are available for ATIK, ZWO and QHY cameras (contact us for other models).

## Slits

Alpy slits are compliant with the UVEX. You can also use a fiber optics instead of the slit. An order filter can be mounted in the slit holder (to avoid order overlap in the near IR).



## Information request

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