

BACHES Echelle Spectrograph



A new level of science for spectroscopy with small telescopes

BACHES (deliveries start 2014)

High resolution Echelle Spectrograph with autoguiding port and remote calibration port

- resolution $\lambda/\Delta\lambda$ up to 18000
- optimized wavelength range 395-700nm free of gaps
- 25 μ m and 50 μ m slits, changeable, length of slit 100 μ m
- compact and lightweight, only 1350g (without CCD-camera)
- high mechanical stability, FE designed, torsion deformation below 9 μ m at 180° tilt
- optimized for KAF-1603 sized detectors (~ 15x10mm, 9 μ m pixel), useable from 7x4mm (ST-402)
- useable with DSLR's
- collimator aperture ratio f/10
- optimized for 8"-24" f/10 optics (full resolution from f/8 to f/12)
- will be delivered in calibrated condition with protocol
- fully remote controlled via internet with optional RCU-unit
- a solenoid motor switches between ThAr calibration light or internal flatfielding lamp
- manual red LED for slit focussing
- optional **BACHES**-version available with fiber coupling entrance

www.baader-planetarium.de/news/baches/baches.htm

BACHES RCU

(deliveries start 2014)

Accurate and professional calibration of BACHES Echelle Spectrograph

Remote Calibration Unit for BACHES Echelle Spectrograph

- switchable between fully manual control and fully remote control
- ThAr and continuous white light lamp for spectral calibration and flatfielding
- integrated power supply for all components
- high voltage 15mA current control for maximum ThAr efficiency light
- prealigned fiber coupling to Baches with removable 50 μ m fiber, 2,5m length
- 6 pin cable connection to Baches for solenoid motor and slit LED, 2,5m length
- fiber and cables delivered with RCU
- remote control with 10/100 MBit/s 10base Ethernet (RJ45), TCP/IP protocol
- integrated webserver for fast and easy internet access with any browser
- additional local PC remote control via RS232 serial line
- size 320mm (L) x 215mm (W) x 125mm (H) (L = 345mm with handles)
- weight net 5,6 kg
- power 230V AC, 25W
- delivered with four rubber pads, mounting tracks for direct telescope attachment as option.



Front and back of RCU-unit



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