

# RoBoTT

Twin telescope: 2x [Takahashi© TOA-150 OTA](#)  
Designation V6A & V6B

- Aperture = 150 mm
- Focal length = 825 mm
- FoV = 2°42' x 2°42'

CCD: 2x [Apogee Alta U16M](#)

- Pixel size = 9  $\mu\text{m}$
- Field = 4096 x 4096 pixel
- Pixel scale = 2.37"/pix

Filter wheel: 2x [Apogee AI-FW50-7S](#)

- 13 x 50 mm square filters
- [Astrodon-Schuler BVRi:](#)
  - $B = 440 \text{ nm}$  (V6B)
  - $V = 540 \text{ nm}$  (V6A)
  - $Rs = 620 \text{ nm}$  (V6A)
  - $Is = 780 \text{ nm}$  (V6B)
- [Astrodon narrow band](#) (5 nm FWHM):
  - $H\alpha = 656 \text{ nm}$  (V6A)
  - $OIII = 501 \text{ nm}$  (V6B)
  - $SII = 672 \text{ nm}$  (V6A)
- [Sloan ugriz:](#)
  - $u = 355 \text{ nm}$  (V6B)
  - $g = 469 \text{ nm}$  (V6A)
  - $r = 617 \text{ nm}$  (V6B)
  - $i = 748 \text{ nm}$  (V6A)
  - $z = 893 \text{ nm}$  (V6B)

Reference: Haas et al. 2012, AN 333, 706

## BEST II

Telescope: [Takahashi© BRC-250](#)

- Aperture = 250 mm
- Focal length = 1268 mm
- FoV = 1°42' x 1°42'

CCD: [FLI ProLine 16801](#)

- Pixel size = 9  $\mu\text{m}$
- Field = 4096 x 4096 pixel
- Pixel scale = 1.5"/pix

Filters:

- Johnson *BVR*

Reference: Kabath et al. 2009, AJ 137, 3911

# BMT

Telescope: Equinox Interscience

- Aperture = 413 mm
- Focal length = 2337 mm
- FoV = 41.2' x 27.5'

CCD: SBIG STL-6303

- Pixel size = 9  $\mu\text{m}$
- Field = 3072 x 2048 pixel
- Pixel scale = 0.79"/pix

Filters:

- [Astrodon-Johnson](#)

*B, V*

- [Asahi narrow band](#) (12 nm FWHM):

YBPA670 = 670 nm

YBPA680 = 680 nm

YBPA690 = 690 nm

Reference: Ramolla et al. 2013, AN 334, 1115

# IRIS

## Telescope: Halfmann Teleskop-Technik

- Focal length = 2337 mm
- Aperture = 800 mm
- FoV = 13' x 13'

## IR detector: HAWAII-1

- Pixel size = 9  $\mu\text{m}$
- Field = 1024 x 1024 pixel
- Pixel scale = 0.74"/pix

## Filters:

- 2MASS

*J, H, K*

- Narrow band filters in the *K* window:

He I

H<sub>2</sub>

1-0 S(1)

Br  $\gamma$

*K* cont.

CO bandhead

Reference: Hodapp et al. 2008, SPIE 7012E, 14

Hodapp et al. 2010, SPIE 7735E, 44

# HPT

Telescope: Vertex Antennen-Technik

- Aperture = 1500 mm

Spectrograph BESO

- $R = 50.000$

The telescope is currently decommissioned!