



Spectroscopic Record Sheet



Details on acquisitions

Object	Mul-IR 26
Coordinates (J2000)	18:33:51.45 -24:02:50.20
Type	/

Observation date	14.205/06/2021
Weather conditions	/
Observer	2SPOT
Location	Deep Sky Chile (CL)

Mount	10 Micron GM3000 HPS
Telescope	Ritchey-Chrétien RC12
Spectroscope	Alpy 600 (23um slit)
Resolution (bin 1x1)	~1 Å at I656 nm
Principal camera	Atik 414 EX
Dispersion (bin 1x1)	~0,3 nm/pixel at I656 nm
Cam temperature	-10°C
Binning	1x1
Guiding camera	Atik 314L+
Data acquisition Soft	Prism v10.4.12.911
Data processing soft	ISIS V6.1.1

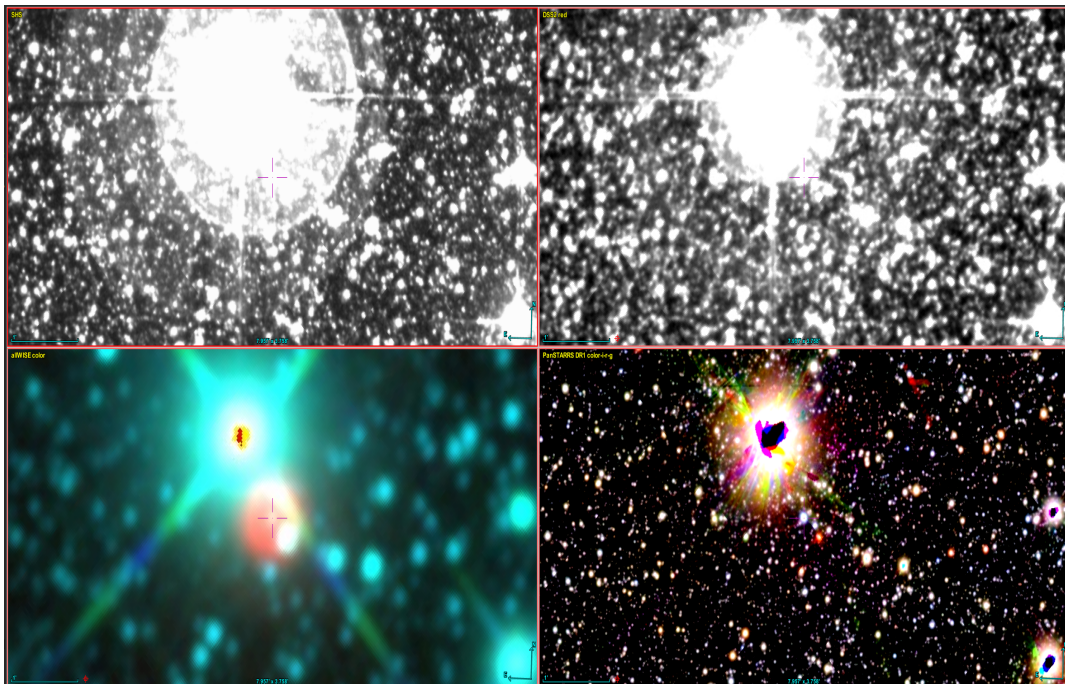
Exposure on object	5 x 1200 s
Master Dark	Corrected
Master Flat	Corrected
Master Offset	Corrected
Neon-Argon calibration	Corrected

Reference star calib.	HD170479_A5V
Exposure on ref star	15 x 10 s
Ref star Sp. date	14.265/06/2021

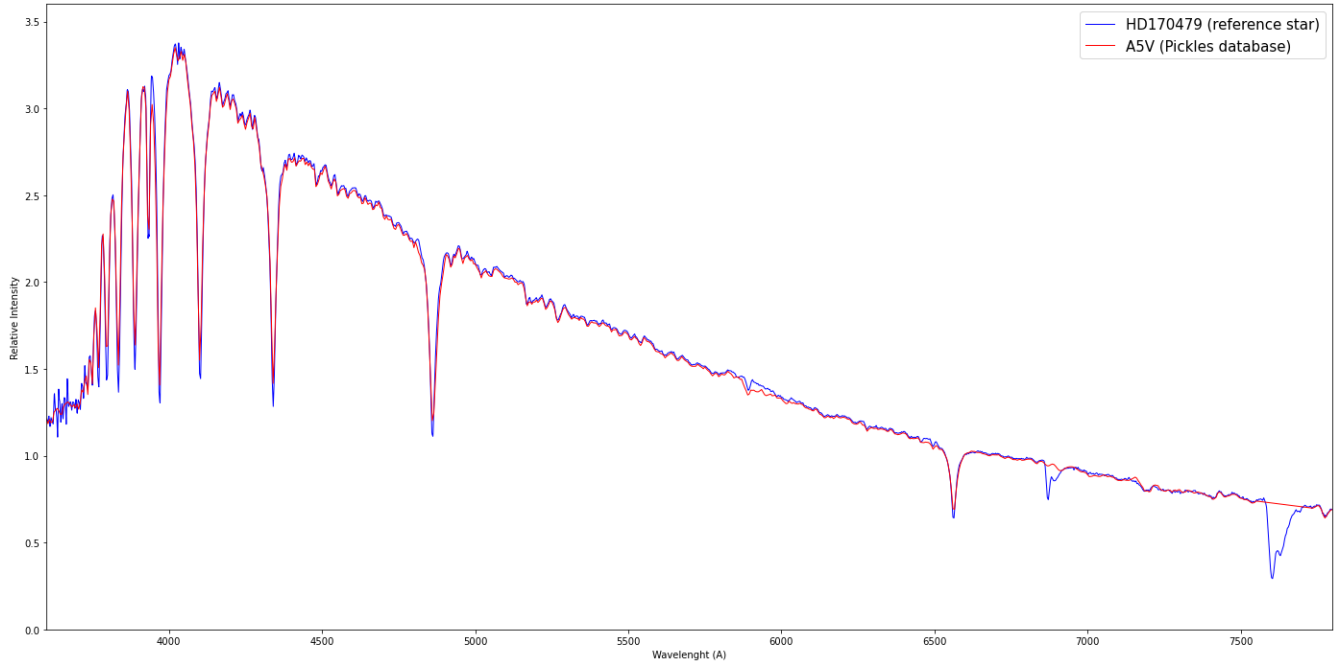
Slit position



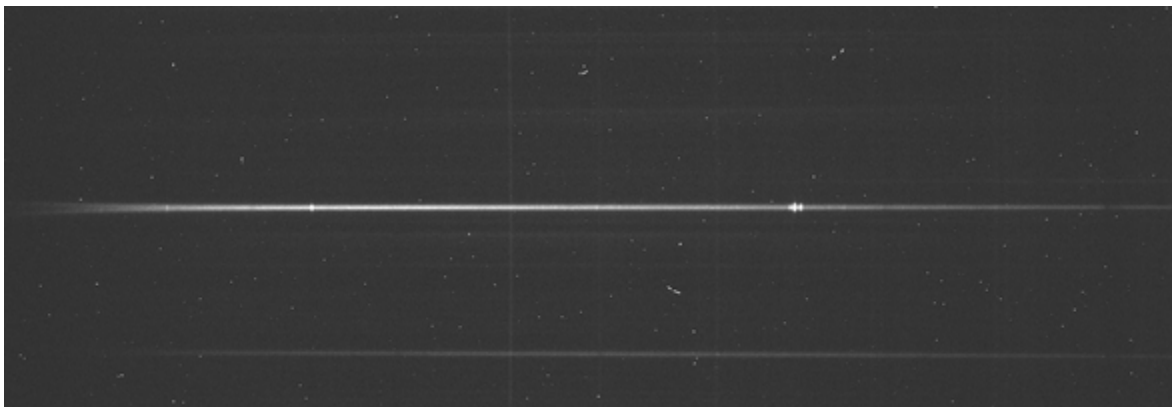
Object picture(s)



Instrumental response (red = theoretical ref star spectrum ; blue = acquired ref star spectrum with instrumental response correction applied)

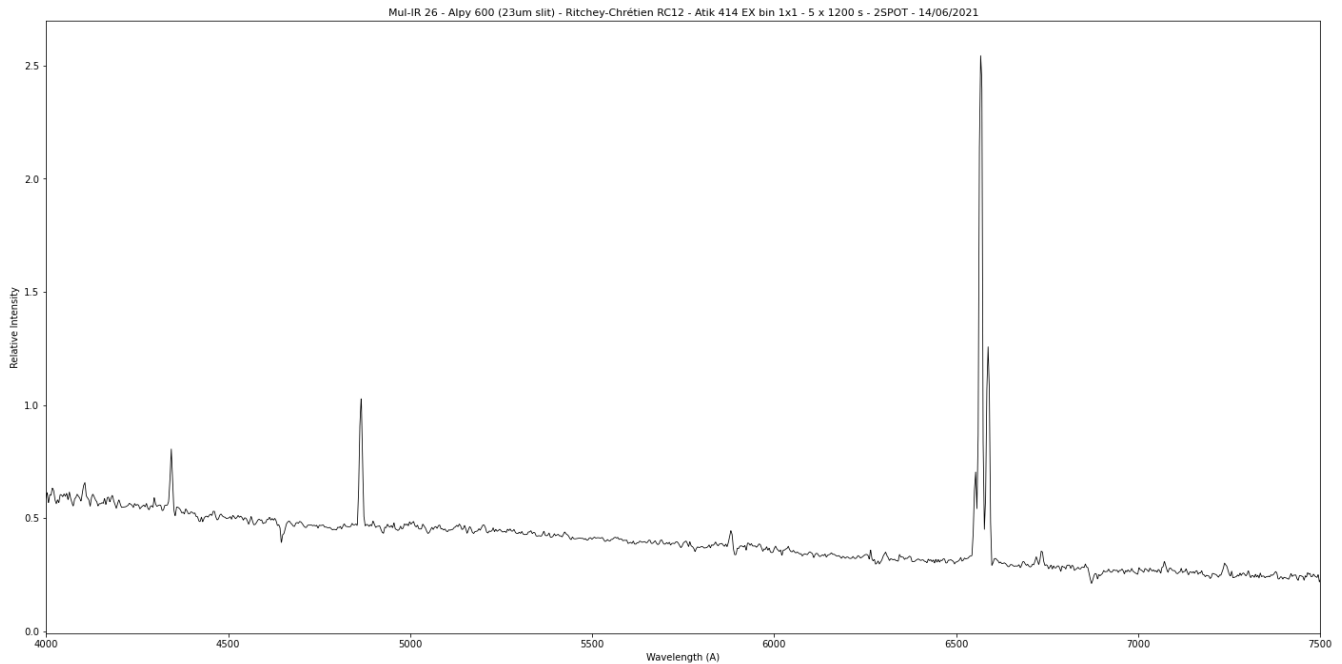


2D Raw spectrum



2D Processed spectrum





Comments

Compact source emission in SHS, strong WISE source.

Hot continuum detected

Detected lines :

H Balmer serie only in blue, $H\alpha > [N II] \gg [S II]$

$[S II] 6731/6716 \sim 0,9$ - medium density

He I

The light curve of Mul-IR 26 shows some brightenings:

<https://asas-sn.osu.edu/sky-patrol/coordinate/43f0378f-7a3b-4797-8783-950b67c47e19>

Noticeable redshift also detected (200 km/s), seems too high to be reliable for a galactic object.

Mul-Ir 26 may be an emission line star (B[e] ?) rather than a VLE PN.