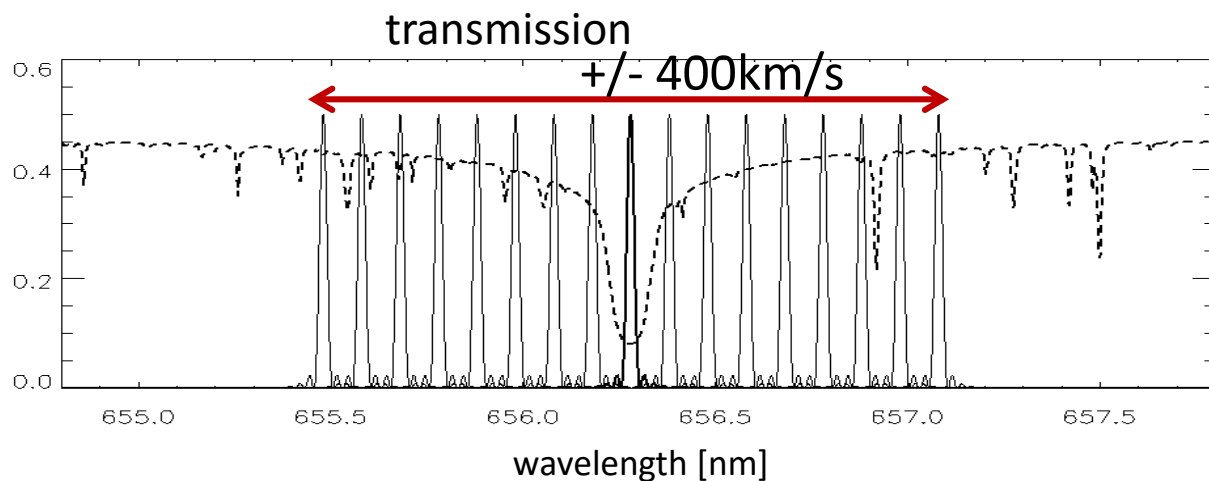
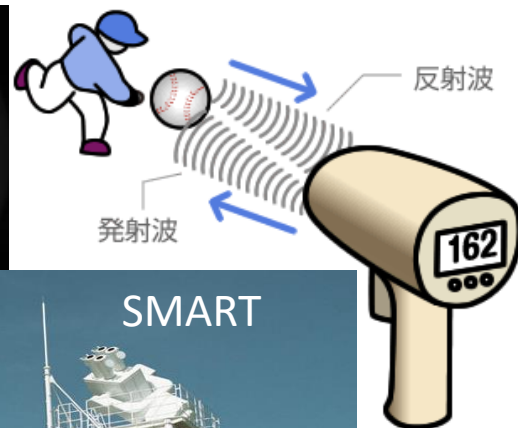
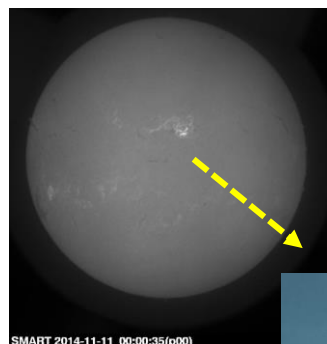
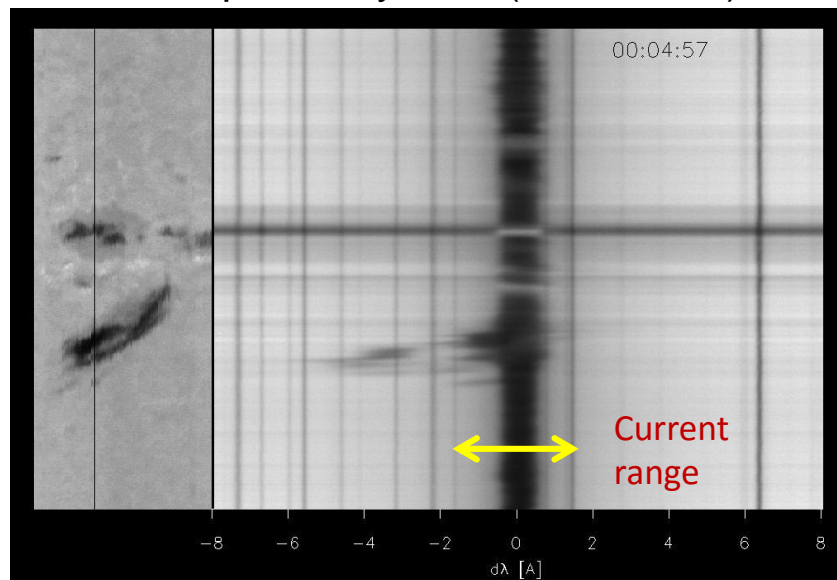


Solar Dynamics Doppler Imager on SMART

Capture the 3D velocity of high speed ejections to predict solar storms

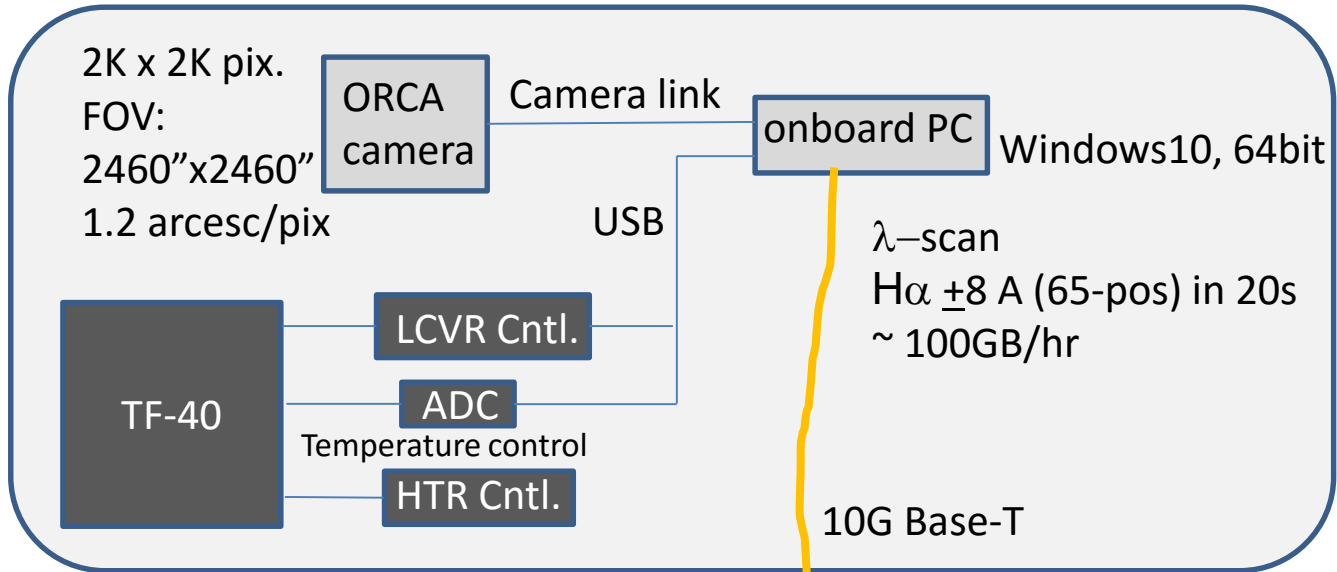
in operational 2016.5 ~ under PSTEP

H α spectra by DST (2014.11.11)

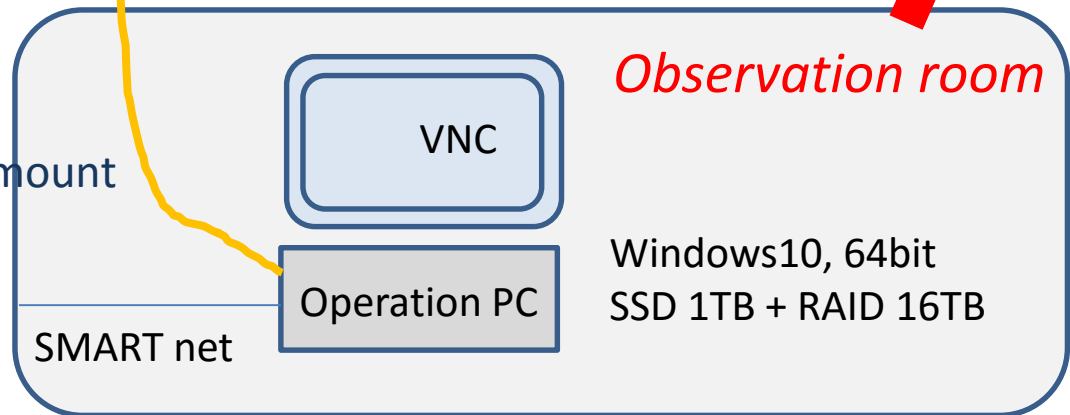


λ -scan by LCVR tunable filter over H α ± 8 Å (65-pos)

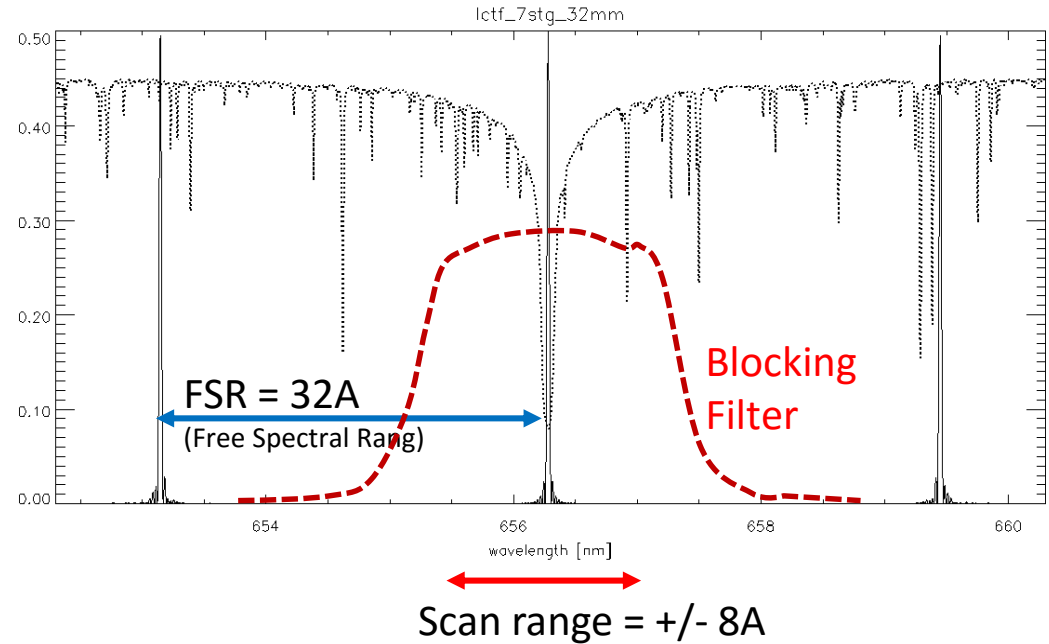
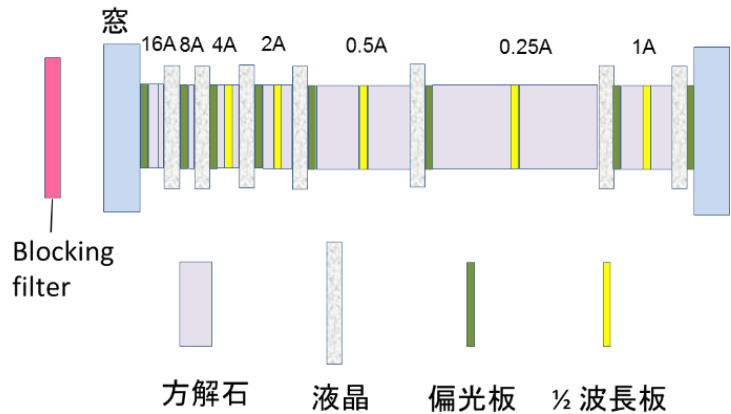
Solar Dynamics Doppler Imager (SDDI)



- Otsuji; filter control & test
- Kimura; filter assembly & mount
- Nakatani; imaging optics, camera mount
- Kaneda; PC assemble & mount
- Ishii; obs. Program & data archive
- Hirose; filter test
- Nagata; optics check,



TF-40 (Ha tunable filter w/LCVR)



Basic properties

	SDDI	original T1
• Wavelength range	H α -8 ~ +8 A	H α -1.2 ~ +1.2 A
• λ sampling	0.25A (65pos)	~0.4A (7pos)
• Field of view	~2460" x 2460" (same as AIA)	ϕ 2300"
• Spatial sampling	1.23" (diff. limit 0.83")	0.56"
• Time resolution	~30 sec	60 sec
• Data rate	~600 GB/day	~100 GB/day