

Instrument	Telescope	Mode	Detector Format	Wavelength Range microns	Resolution dlambda/lambda Blaze/(2.5*dispersion)	Resolution arcsec	Filters	Field of View arcmin (unless noted)	Scale arcsec/pix	Dispersers lines per mm/Blaze(microns)	Multiplex/Quantity	Approx Sensitivity (See web pages for details and (some) ETCs)	Avail?	Restrictions/ Features	Comments	
IMACS	Baade/West	f/4 Direct (4x2 array)	2x4 2kx4k CCDs	0.37-1.00		< 0.35	BVRI + blockers	15.4 x 15.4 (~3" gaps)	0.11		Imaging	1 cps@V=27.0 (ETC)	Now	No Swap	Alan Dressler	
	Baade/West	f/2 Direct (4x2 array)	2x4 2kx4k CCDs	0.39-1.05		< 0.50	BVRI + blockers	27.4 diam (~5" gaps)	0.2		Imaging	1 cps@V=26.9 (ETC)	Now	No Swap		
	Baade/West	f/4 Spectroscopy	2x4 2kx4k CCDs	0.37-0.97	3600 (0.7")	< 0.35		7 x 15.4 (gaps)	0.11	300/0.67	Yes/100's slits	20-40% Full System	Now			
				0.37-0.68	5500 (0.7")					600/0.52			Now			
				0.65-1.00	8600 (0.7")					600/0.84			Now			
				0.37-0.52	9100 (0.7")					1200/0.44			Now			
				0.75-0.87	18000 (0.7")					1200/0.86			Now	Mechanical		
				0.37-0.44	16000 (0.7")					1200/0.40 (2nd order)			Now	Mechanical		
		Baade/West	f/2 Spectroscopy	2x4 2kx4k CCDs	0.39-1.00	1100 (0.7")	< 0.50		11 x 27	0.2	150/0.72	Yes/100's slits	<10-40% (Full System)	Now		
					0.39-1.00	1300 (0.7")					200/0.66			Now		
				0.39-1.00	2000 (0.7")					300/0.67			Now			
				0.56-1.00	5300 (0.7")					600/0.77 (Poor t.p.)		<10%	Now	Contact Dressler		
				0.39-0.52	5400 (0.7")					600/0.39 (2nd Order; Poor t.p.)		<10%	Now	Contact Dressler		
				0.4-0.9	20-150					Prism	Yes/1000's slits	High	Now			
IMACS-IFU	Baade/West	f/2 IFU	25x40 (IFU array)	0.4-0.9	<1800-10000	0.2 per element		6.92" x 5.00"	0.2" elements	see f/2 spectroscopy	Yes/1000 fibers	? (~50% of direct?)	Now		Durham	
	Baade/West	f/4 IFU	24x25 (IFU array)	0.4-0.9	<1800-10000	0.2 per element		5.00" x 4.15"	0.2" elements	see f/4 spectroscopy	Yes/600 fibers	? (~50% of direct?)	Now			
IMACS-MOE	Baade/West	f/4 MOE	2x4 2kx4k CCDs	0.34-0.95	21000	< 0.35		5 x 15.4	0.11	Echelle (9 orders)	Yes/10 slits	V=17.5/SN=50/3 hrs	Now		Andy McWilliams	
IMACS-MMTF	Baade/West	f/2 MMTF	2x4 2kx4k CCDs	0.5-0.92	300-1100	< 0.35	Tunable/Narrow	7-11 diameter	0.2	Fabry-Perot Etalon	Imaging	?	Now		Sylvain Veilleux	
IMACS-GISMO	Baade/West	f/4 GISMO	2x4 2kx4k CCDs	0.37-0.97	see f/4 spectroscopy	< 0.4		4 x 4	0.05	see f/4 spectroscopy	Yes/100's slits	? (~50% direct??)	2008A?	Shared Risk	Mike Gladders	
PANIC	Baade/East	Direct (Reimages)	1024x1024 HgCdTe	1.0-2.5		0.2	YJHKs + narrow	2 x 2	0.13		Imaging	ETC?	Now		Eric Persson	
MagIC	Baade/Aux	Direct	2k x 2k CCD (4amp)	0.36-1.00		0.2	BVRI, Sloan, custom	2.35 x 2.35	0.07		Imaging	1cps@V=27.0 (ETC?)	2008A	25 sec readout	Jim Elliot	
		Direct/FAST	2k x 4k w/fr. transfer	0.34-1.00		0.2	up to 16 in 18 slots	1.2 x 1.2	0.04		Imaging	Similar?	2008A	400 kpix/sec		
LDSS-3	Clay/West	Direct (Reimages)	4k x 4k CCD	0.40-1.10		0.4	Sloan, B, blocker	8.3 diameter	0.19		Imaging	? Similar to IMACS?	Now		John Mulcahey	
	Clay/West	Spectroscopy	4k x 4k CCD	0.40-1.00	850 (1")	0.4	OG590	8.3 diameter	0.19	300 'Medium Red' Grism	Yes/100's slits	??	Now			
			4k x 4k CCD	0.60-1.10 (Varies!)	1810 (1"; Varies!)	0.4	OG590	8.3 diameter		660 'VPH Red' Grism			Now			
			4k x 4k CCD	0.40-0.75 (Varies!)	1900 (1"; Varies!)	0.4	No blocking needed	8.3 diameter		1090 'VPH Blue' Grism			Now			
			4k x 4k CCD	0.40-1.10 (Varies!)	~800-1000 (1"; Varies!)	0.4	OG590	8.3 diameter		???? 'VPH All'			Now?	Available?		
MIKE Direct	Clay/East	Blue Spectroscopy	2k x 4k CCD	0.32-0.50 (full format)	28000 (1") to 85000	0.25		Single Object (5" slit)	0.12	Echelle (R2.4)	No	1 cps/A @ 19.4, 0.4 mic	Now	Dichroic	R. Bernstein	
		Red Spectroscopy	2k x 4k CCD	0.49-1.00 (full format)	22000 (1") to 65000	0.25		Single Object (5" slit)	0.13	Echelle (R2)	No	1 cps/A @ 18.5, 0.65 mic	Now			
MIKE-MMFS	Clay/East	Blue Spectroscopy	2k x 4k CCD	0.36-0.55 (few orders)	19000	1.4" ap/14" sep		23 diam	0.2	Echelle (R2.4)	Yes/128 fibers	1 cps/A @ 18.7, 0.5 mic	Now	Campaign/PI	Mario Mateo	
		Red Spectroscopy	2k x 4k CCD	0.47-1.00 (few orders)	15500	1.4" ap/14" sep		23 diam	0.2	Echelle (R2)	Yes/128 fibers	1 cps/A @ 17.9, 0.5 mic	Now			
MagE	Clay/Aux	Spectroscopy	2k x 2k ? CCD	0.31-1.00 (full format)	4500 (1")	0.2		Single Object (10" slit) ?		Echelle (Optimize < 0.4 mic)	No	30% overall	2008A?		Scott Burles	
PFS	Clay/East	Spectroscopy	4k x 4k CCD	0.39-0.62 (full format)	38000 (1")	0.2		Single Object (3.7" slit)	0.09	Echelle	No	?	2008B	Iodine/Stability	Iodine/Stable	
FourStar	Baade/East	Direct (2x2 array)	4 2k x 2k Rockwell	1.0-2.5		0.25	JHKs, narrow, input	10.9 x 10.9	0.16		Imaging	?	2009A	Replaces PANIC	Eric Persson	
FIRE	Baade/Aux(2)	IR Spectroscopy	2k x 2k Rockwell	0.85-2.5 (full format)	6000 (0.6")	0.25		Single Object (7-8")	0.1-0.18	Echelle	No	?	2009B		Rob Simcoe	
		IR Spectroscopy		0.85-2.5	1000	0.25		Single Object (60" slit)	0.18	Prisms only	No	?				
		IR Imaging		0.85-2.5		0.25	JHKs	~2 diam?	0.09 ?		Imaging	?				
MegaCam	Clay f/5	Direct (9x4 array)	36 2k x 4k CCD (!)	0.35-0.95		0.25	Sloan	24 x 24 (6" gaps)	0.08		Imaging (35" ROT)		2009B	F/5 has to work!	A. Szentgyorgyi	
MMIRS	Clay f/5	IR Spectroscopy	2k x 2k Hawaii-2	1.0-2.5	3000 (0.4")	0.35		4 x 6.8	0.2	80-230/J, H, K, JH, HK Grisms	Yes/-50 slits	J=19, S/N=20, 4 hrs	2010	F/5 has to work!	A. Szentgyorgyi	
		Direct		1.0-2.5		0.35	JHKs + others	6.8 x 6.8	0.2		Imaging	?				
PISCO	Clay/Aux(2)	Direct (Reimages)	8 2k x 4x LNL CCD	0.45-1.0		0.3	griz simultaneously	5 x 5	0.12		Imaging	Comparable to IMACS	>2009B		Chris Stubbs	
<i>f/16 AO + MIRAC4</i>	Clay/West	Direct		2.0 - 24	10-100		Many + Grism	0.5 x 0.5 or 1 x 1			No/Imaging	?	>2010	Whither LDSS3?	L. Close/P. Hinz	