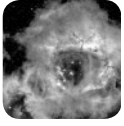


CTIO Instruments Available

Spectroscopy		Detector	Resolution	Slit
4-m	Hydra + Fiber Spectrograph	SiTe 2K CCD, 3300-11,000Å or Loral 3K CCD, 3300-11,000Å	300-2000	Fiber 120+fibers, 2 arcsec aperture
	R-C CCD Spectrograph Echelle Spectrograph + Blue Air Schmidt Echelle Spectrograph + Long Cameras OSIRIS IR Imager/Spectrometer	Loral 3K CCD, 3100-11,000Å Loral 3K CCD, 3100-11,000Å SiTe 2K CCD, 3100-11,000Å HgCdTe (1024 <sup>2</sup> , 1.0-2.4µm)	300-5000 15,000 98,000 1200 or 2900	5.5' 5.2' 5.2' 1.2'
1.5-m	Cass Spectrograph OSIRIS IR Imager/Spectrometer	Loral 1200x800 CCD, 3100-11,000Å HgCdTe (1024 <sup>2</sup> , 1.0-2.4µm)	<1300 1200 or 2900	7.7' 4'
	Imaging		Detector	Scale ("/pixel) Field
4-m	Mosaic II Imager OSIRIS IR Imager/Spectrometer	8Kx8K CCD Mosaic HgCdTe (1024 <sup>2</sup> , 1.0-2.4µm)	0.27 0.15 or 0.4	36' 1.2' or 3'
	1.5-m	Cass Direct Imaging ASCAP Optical Photometer OSIRIS IR Imager/Spectrometer	SiTe 1K/2K CCD HgCdTe (1024 <sup>2</sup> , 1.0-2.4µm)	0.44/0.24 0.4 or 1.1
0.9-m		Cass Direct Imaging	SiTe 2K CCD	0.40 13.6'
YALO	ANDICAM Optical/IR Camera	Loral 2K CCD HgCdTe 1K IR	0.3 0.2	10' 3.3'



# Observational Programs

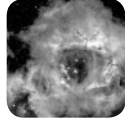
## HET Instruments Available

Detector	Resolution	Slit	Multi-object
Marcario Low-Res Spect.	600 1300	1.0"-10"x4' 1.0"-10"x4'	13 slitlets, 15" x 1.3" in 4' x 3' field
High Resolution Spectrograph	30,000-120,000	2" or 3" fiber	single

## Gemini Instruments Possibly Available

GEMINI NORTH	Detector	Spectral Range	Scale ("/pixel)	Field
NIRI (queue & classical)	1024x1024 Aladdin Array	1-5 $\mu$ m	0.022, 0.050, 0.116	22.5", 51", 119"
G/MOS (queue only, after 11/1)	3 - 2048 x 4068 CCDs	0.36-1.1 $\mu$ m	0.072	5.5' multislit & imaging
Hokup'a AO Camera (classical only)	QUIRC 1024x1024 HgCdTe	1-2.5 $\mu$ m	0.020	20"
OSCIR (classical only)	128x128 Si:As IBC	8-25 $\mu$ m	0.084	11"

GEMINI SOUTH	Detector	Spectral Range	Scale ("/pixel)	Field
OSCIR	128x128 Si:As IBC	8-25 $\mu$ m	0.084"	11"
FLAMINGOS I (classical only, until 11/30)	HgCdTe 2048 x 2048	0.9-2.5 $\mu$ m	0.075"	2.5' x 2.5' (imager)
Acquisition Camera (Queue, TOO)	1K x 1K frame-transfer CCD	UBVRI	0.12"	2' x 2'
Phoenix (classical only)	512 x 1024 InSb	1-5 $\mu$ m	0.1"	R = 70,000



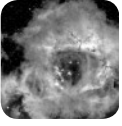
KPNO Instruments Available

Spectroscopy	Detector	Resolution	Slit	Multi-object
<b>Mayall 4-m</b>	R-C CCD Spectrograph CCD Echelle Spectrograph IR Cryogenic Spectrograph FLAMINGOS (3)	300-5000 18000-65000 300-1500 1000-3000	5.4' 2.0' 0.8' 10'	single/multi  single/multi
<b>WYTN 3.5-m</b>	Hydra + Bench Spectrograph DensePak (1)	700-22000 700-22000	NA IFU	~100 fibers ~90 fibers
<b>2.1-m</b>	GoldCam CCD Spectrograph FLAMINGOS (3)	300-4500 1000-3000	5.2' 20'	single/multi

Imaging	Detector	Spectral Range	Scale ("pixel)	Field
<b>Mayall 4-m</b>	CCD Mosaic SQUID FLAMINGOS (3) Prime Focus CCD Camera (2) IR Imager (2)	3500-9700Å JHK + L (NB) JHK 3300-9700Å JHK + NB	0.26 0.39 0.3 0.42 0.60	35.4' 3.3' circular 10' 14.2' 2.5'
<b>WYTN 3.5-m</b>	Mini-Mosaic 4Kx4K CCD	3300-9700Å	0.14	9.3'
<b>2.1-m</b>	CCD Imager IR Imager (2) SQUID FLAMINGOS (3)	3300-9700Å JHK + NB JHK + L(NB) JHK	0.305 1.1 0.68 0.6	10.4' 4.7' 5.8' circular 20'
<b>WYTN 0.9-m</b>	CCD Mosaic (4) 8Kx8K	3500-9700 Å	0.43	59'

(1) Integrated Field Unit: 30" x 45" field, 3" fibers, 4" fiber spacing.  
 (2) Limited to narrow-band filter work and scheduling backup.  
 (3) Available December-January only.  
 (4) Shared risk.



### MMT Instruments Available

Spectroscopy	Detector	Spectral Range	Scale ("/pixel)	Field
Spectrograph	Blue Channel	0.32-0.8 $\mu$ m	0.3	150"
	Red Channel	0.5-1.0 $\mu$ m	0.3	150"
MIRAC3	128 x 128 Si:As BIB array	2-25 $\mu$ m	0.14, 0.28	18.2, 36"
MiniCam	2 – EEV 2048 x 4608 CCDs	UBVRI	0.05	3.7'
FSPEC (Near-IR Spectrometer)	HgCdTe array	JHK	1.2	Resolving Power $\leq$ 3500