Key Instrument Characteristics

Instrument	Channel/Mode	Wavelength (microns)	Typical Spectral Resolution (λ/Δλ)	FOV	Angular Resolution (arc sec)	Number of Sensor Chip Arrays	Mega Pixels	Detector Type / Format NIR=18 um pixels MIR=25 um pixels	Detector Temp (K)
NIRCam	Shortwave	0.6 - 2.3	4,10,100 filters	2.2' x 2.2' each of 2 modules	0.032 / pixel	8	34	HgCdTe / 2048 x 2048	40
	Longwave	2.4 - 5.0	4,10,100 filters, 200 grism	2.2' x 2.2' each of 2 modules	0.065 / pixel	2	8	HgCdTe / 2048 x 2048	40
NIRSpec	Multi-Object Spec	1.0 - 5.0 0.6 - 5.0	1000 100	203 x 463 mas clear shutter aperture, 267 x 528 mas pitch, 4 x 171 x 365 shutter array format, 9.7 sq arcmin mulit-object targetable solid angle	see FOV	2	8	HgCdTe / 2048 x 2048	37
	Long Slits (5)	1.0 - 5.0	100, 1000, 2700	200 x 3500 mas x 3, 400 x 4000 mas, 1600 x 1600 mas					
	IFU	0.7 - 5.0	2700	3 x 3 arc-sec	0.10 slice width				
MIRI	Imager	5 - 27	4-6	1.9' x 1.4'	0.11 / pixel	1	1	Si:As / 1024 x 1024	7
	Low Res Slit	5 - 11	100	5" x 0.6"	see FOV	1	1	Si:As / 1024 x 1024	7
	Med Res IFU	4.87 - 7.76 7.45 - 11.87 11.47 - 18.24 17.54 - 28.82	3000 3000 3000 2250	3.7" x 3.7" 4.7" x 4.5" 6.2" x 6.1" 7.1" x 7.7"	0.18 slice width 0.28 slice width 0.39 slice width 0.65 slice width	1	1	Si:As / 1024 x 1024	7
NIRISS	Imager	0.8 - 5.0	4,10 filters	2.2' x 2.2'	0.065 / pixel	1	4	HgCdTe / 2048 x 2048	40
	Wide-field slitless spectroscopy	0.8-2.25	150	2.2' x 2.2'					
	single-object slitless spectroscopy	0.7 - 2.5	700	2.2' x 2.2'					
	Aperture masking interferometry	3.8,4.3,3.8	20,20,10 filters	2.2' x 2.2'					
FGS-Guider		0.8 - 5.0	0.7	2.3' x 2.3' each of 2 modules	0.068 / pixel	2	8	HgCdTe / 2048 x 2048	40
						Total ISIM	66		