

NIRSpec Internal Lamp

Program, Obs(.Exposure_Spec)	Comment
906 15.01	NO PARALLEL sr automatically added
906 15.01	PARALLEL SLEW ONLY sr automatically added
667 1	Field: NIRSpec Internal template exists
667 1.01	Field: Operating Mode choose from list
667 1.01	Field: Subarray choose from list
667 1.01	Field: MSA Configuration ALLOPEN, ALLCLOSED
667 1.01	Field: Lamp choose from list
667 1.01	Field: Grating choose from list
667 1.01	Field: Readout Pattern choose from list
667 1.01	Field: Number of Groups/Integration number
667 1.01	Field: Number of Integrations/Exposure number
Operating Mode	
667 4.01	MSASPEC
667 2.01	IFU
667 1.01	IMAGE
667 14.01	FIXEDSLIT
667 15.04	BRIGHTOBJ
667 23.01	GRATING_ONLY
Subarray with IMAGE	
667 1.01	FULL
667 5.01	ALLSLITS
667 8.01	SUBS200A1
667 12.01	SUBS200A2
667 12.05	SUBS200B1
667 1.02	SUBS400A1
667 21.01	SUB2048
667 21.02	SUB1024A
667 21.03	SUB1024B
667 21.04	SUB512
667 21.05	SUB512S
667 21.06	SUB32
Subarray with MSASPEC	
667 4.01	FULL
Subarray with IFU	
667 2.01	FULL
Subarray with FIXEDSLIT	
667 14.01	FULL
667 14.02	ALLSLITS
667 14.03	SUBS200A1
667 14.04	SUBS200A2
667 14.05	SUBS200B1
667 14.06	SUBS400A1
667 22.01	SUB2048
667 22.02	SUB1024A
667 22.03	SUB1024B

667 22.04	SUB512
Subarray with BRIGHTOBJ	
667 15.04	SUB2048
667 15.03	SUB1024A
667 15.02	SUB1024B
667 15.01	SUB512
667 20.04	SUB512S
Subarray with GRATING_ONLY	
667 23.01	FULL
MSA Configuration	
667 7.01, 667 3.01	MSASPEC ALLOPEN, ALLCLOSED
667 1.01, 667 19.04	IMAGE ALLOPEN, ALLCLOSED
667 14.01	FIXEDSLIT ALLCLOSED (default)
667 15.01	BRIGHTOBJ ALLCLOSED (default)
667 23.01	GRATING_ONLY -
667 2.01	IFU -
Lamp	
667 17.01	NONE
667 8.01	FLAT1
667 2.01	FLAT2
667 7.01	FLAT3
667 11.01	FLAT4
667 6.01	FLAT5
667 1.01	LINE1
667 10.01	LINE2
667 9.01	LINE3
667 4.01	LINE4
667 3.01	REF
667 5.01	TEST
Grating	
667 14.03	G140M
667 2.01	G235M
667 6.01	G395M
667 3.01	G140H
667 7.01	G235H
667 14.01	G395H
667 4.01	PRISM
667 1.01	MIRROR
Grating available for	
667 4.01	MSASPEC
667 14.01	FIXEDSLIT
667 2.01	IFU
667 15.04	BRIGHTOBJ
667 1.01	IMAGE doesn't allow Grating, MIRROR will be automatically used
906 5.01	BRIGHTOBJ doesn't allow MIRROR
	APT needn't populate grating field in sql; set to NULL by DB
Readout Pattern	
667 1.01	NRS
667 1.02	NRSRAPID

667 16.01	NRSIRS2
667 16.02	NRIRS2RAPID
906 5.02, 5.03	IRS2 patterns only available with Subarray FULL
667 16	100 second overhead switching between IRS2 and non-IRS2 in an observation
906 8.01	GROUPS x INTS must be less than 256 for NRSIRS2
906 8.02	GROUPS x INTS must be less than 1024 for NRSIRS2RAPID
667 16	warn if 100 second overhead added
Number of Groups/Integration	
667 1.01	number
906 16.01,16.02	min/max 1, 65535
906 16.03,16.04	illegal min,max 0, 65536
Number of Integrations/Exposure	
667 1.01	number
906 16.02,16.01	min/max 1, 65535
906 16.04,16.03	illegal min,max 0, 65536