

MIRI Low Resolution Spectroscopy

Program, Obs only 1 expspec	Comment
Template Specific Information	
602 1	MIRI Low Resolution Spectroscopy template exists
602 1	Field: Acquisition Target choose from list
602 1	Field: Acquisition Filter chose from list
602 1	Field: Acquisition Readout Pattern choose from list
602 1	Field: Acquisition Number of Groups/Integrations choose from list
602 1	Field: Acquisition Number of Integrations/Exposure 1 only allowed value
602 1	Field: Subarray choose FULL or SUBPRISM
6582 3	Field: Dither Type choose from list
6582 3	Field: Number of Spectral Steps 1,2,3...
6582 3	Field: Spectral Step Offset any positive number
6582 3	Field: Number of Spatial Steps 1,2,3...
6582 3	Field: Spatial Step Offset any positive number
602 1	Field: Readout Pattern choose from list
602 1	Field: Number of Groups/Integration number
602 1	Field: Number of Integrations/Exposure number
602 1	Field: Number of Exposures/Dither number
Target Acquisition	
602 2	Science target generally used for acquisition
602 1	Offset star may be used for target acquisition
Acquisition Target	
602 1	if offset star select ACQUISITION TARGET NAME from list targets previously entered
	if Solar System Target acq target must be self
602 9	if no targ acq needed select NONE
903 31	ACQUISITION TARGET name should always be present and defaulted to prime target for the observation
602 6	Warning if Acq and Science target too far apart
602 1, 6	LRS will use FULL Subarray (FULL, SLITLESSPRISM)
Acquisition Target Filter	
602 3	F560W
602 1	F1000W
602 4	F1500W
602 2	FND
Acquisition Readout Pattern	
602 1 (903 31)	FAST (default)
602 3	FASTGRPavg
Acquisition Number of Groups/Integration	
602 1	5
602 2	7
602 3	9
602 4	11
602 5	13

602 6	19
602 7	27
602 8	39
602 11	57
602 12	85
602 13	99
Acquisition Number of Integrations/Exposure	
602 1	1 only allowed value
Science Exposures	
Subarray	
602 1	FULL
602 6	SLITLESSPRISM
602 10	TSO sr must have NO PARALLEL
Dither Specifications	
602 1	Dither pattern doesn't apply to acquisition image
602 6	No Dither Pattern for SUBPRISM unless LAP
Dither Type	
602 6	PATTERN TYPE: NONE
602 1	PATTERN TYPE: ALONG SLIT NOD
6582 3	PATTERN TYPE: MAPPING
Mapping Parameters	
6582 3	SPECTRAL STEPS: 1, 2, 3, ...
6582 3	SPECTRAL STEP OFFSET: units are arcseconds
6582 3	SPECTRAL STEP OFFSET: any positive floating point value
6582 3	NUMBER OF SPATIAL STEPS: 1, 2, 3, ...
6582 3	SPATIAL STEP OFFSET: units are arcseconds
6582 3	SPATIAL STEP OFFSET: any positive floating point value
Readout Pattern	
602 10 (903 31)	FAST (default)
602 4	SLOW
602 6	FASTGRPAVG LAP
602 6	SLOW only allowed with SUBARRAY=FULL
Number of Groups/Integration	
602 10, 903 32	must be > 2 legal, illegal
903 39	FASTGRPAVG, recommended at least 4
903 36-38	SLOW 2-4 allowed but not recommended
903 33-35	FAST 2-4 allowed but not recommended
Number of Integrations/Exposure	
903 31	1 (default)
903 40	nondefault
Number of Exposures/Dither	
903 31	1 (default)
903 41	> 1 NO PARALLEL required
Dither	
602 10	SLITLESSPRISM: NONE
Dither LAP only	
637 1	SLITLESSPRISM: 1PIXEL_SLIT_SCAN
637 2	SLITLESSPRISM: 2PIXEL_SLIT_SCAN
637 3	SLITLESSPRISM: 7PIXEL_SLIT_SCAN

637 4	SLITLESSPRISM: 7X3_PIXEL_MAP_CENTER
637 5	SLITLESSPRISM: 7X3_PIXEL_MAP_NOD1
637 6	SLITLESSPRISM: 7X3_PIXEL_MAP_NOD2
637 7	SLITLESSPRISM: INTRAPIXEL_SLIT_SCAN_CENTER
637 8	SLITLESSPRISM: INTRAPIXEL_SLIT_SCAN_NOD1
637 9	SLITLESSPRISM: INTRAPIXEL_SLIT_SCAN_NOD2
637 10	SLITLESSPRISM: LONG_CROSS_SCAN_CENTER
637 11	SLITLESSPRISM: LONG_CROSS_SCAN_NOD1
637 12	SLITLESSPRISM: LONG_CROSS_SCAN_NOD2
637 13	SLITLESSPRISM: SHORT_CROSS_SCAN_CENTER
637 14	SLITLESSPRISM: SHORT_CROSS_SCAN_NOD1
637 15	SLITLESSPRISM: SHORT_CROSS_SCAN_NOD2
637 16	SLITLESSPRISM: 1PIXEL_SLITLESS_SCAN_LONG
637 17	SLITLESSPRISM: 1PIXEL_SLITLESS_SCAN_SHORT
637 18	SLITLESSPRISM: 2PIXEL_SLITLESS_SCAN_SHORT
637 19	SLITLESSPRISM: 7X3_PIXEL_MAP_CENTER
637 20	SLITLESSPRISM: 7PIXEL_9X3_MAP_SLITLESS
637 21	SLITLESSPRISM: 5PIXEL_8X4_MAP_SLITLESS
637 22	SLITLESSPRISM: 7PIXEL_SLITLESS_SCAN
637 23	SLITLESSPRISM: 5PIXEL_SLITLESS_SCAN