

NIRISS Aperture Masking Interferometry (AMI)

Program, Obs(.Exposure_Spec)	Comment
656 1	NIRISS AMI template exists
Target Acquisition Exposure	
656 2	Field: Acquisition Target choose from list
656 2	Field: Acquisition Acq Mode AMIBRIGHT, AMIFAINT
656 2	Field: Acquisition Filter F480M
656 2	Field: Acquisition Readout Pattern NIS, NISRPID
656 2	Field: Acquisition Number of Groups/Integration choose from list
Science Imaging Exposures	
656 1	Field: Primary Dither choose from list
656 1	Field: Subpixel Positions choose from list
656 1	Field: Subarray choose from list
656 1.01	Field: Filter choose from list
656 1.01	Field: Readout Pattern choose from list
656 1.01	Field: Number of Groups/Integration number
656 1.01	Field: Number of Integrations/Exposure number
Direct Imaging Exposures (optional)	
656 1	Field: Direct Image TRUE or FALSE
656 2	Field: Image Dithers choose from list
656 2	Field: Subarray copied from Science observation
656 DI2.01	Field: Filter copied from Science exposure
656 DI2.01	Field: Readout Pattern choose from list
656 DI2.01	Field: Number of Groups/Integration number
656 DI2.01	Field: Number of Integrations/Exposure number
PSF Reference Observations	
656 1	Field: This is a PSF Reference Observation checkbox
656 5	Field: PSF Reference Observation choose from list
659 1	Field: Additional Justification checkbox
Target Acquisition Exposure	
Acquisition Target	
656 4	if offset select from list
659 43	if science SS target, acq can't be other SS target
656 1	if no acquisition needed select NONE, only allowed for FULL
902 20	ACQUISITION TARGET name should always be present and defaulted to SAME TARGET AS OBSERVATION
659 44	Error if Acq and Science target too far apart
Acquisition Mode	
656 3	AMIBRIGHT
656 2	AMIFAINT
656 1	NONE
656 1	NONE only allowed with FULL
Acquisition Filter	
656 2	F480M uneditable
Acquisition Readout Pattern	
656 2	NIS
656 3	NISSRAPID

656 2, 656 3	NIS only available for AMIFAIN
Acquisition Number of Groups/Integration	
656 3	3
656 5	5
656 9	7
656 7	9
656 6	11
656 10	13
656 2	15
656 8	17
656 4	19
Acquisition Number of Integrations/Exposure	
656 2	automatically set to 1 uneditable
Science Exposure	
Dither Pattern	
Primary Dithers	
656 1	NONE
659 3	2
659 4	3
659 2	4
902 20	4 default
Subpixel Positions	
656 1	NONE
902 20	NONE default
659 4	5
659 3	9
659 7	25
Subarray	
656 2	SUB80
902 20	SUB80 default
656 1	FULL
Filters	
656 1.01	F277W
656 1.03	F380M
656 1.02	F430M
656 1.04	F480M
Readout Pattern	
656 1.01 (902 21)	NISRAPID (default)
656 1.02	NIS
not in APT	NIS only available for FULL
Number of Groups/Integration	
656 1.01	number
656 1.02, 656 1.03	min/max NIS 1,200
902 14.04, 902 14.03	illegal NIS 0,201
656 1.01, 902 14.01	min/max NISRAPID 1,800
902 14.05, 902 14.01	illegal NISRAPID 0,801
Number of Integrations/Exposure	
656 1.01	number
656 1.03, 902 14.10	min,maximum 1,10000

902 14.04 902 14.02	illegal 0,10001
Direct Imaging Exposures	
Direct Imaging	
656 1	FALSE
902 20	FALSE default
656 2	TRUE
656 DI2.01-2.04	same filter and subarray for DI as science exposure
Image Dithers	
656 2	NONE
659 8	2
659 7	3
659 14	4
902 31	4 default
Readout Pattern	
656 DI2.01 (902 DI31.01)	NISRAPID (default)
659 DI14.02	NIS
not in APT	NIS only available for FULL
Number of Groups/Integration	
659 DI14.01	number
902 DI14.04 902 DI 14.01	min/max NIS 1,200
902 DI 14.11 902 DI 14.13	illegal NIS 0,201
656 DI2.01	min/max NISRAPID 1,120
902 DI14.12 902 DI1.08	illegal NISRAPID 0,121
Number of Integrations/Exposure	
656 DI2.01	number
902 DI14.01 902 DI14.09	min,maximum 1,65535
902 DI14.12 902 DI14.02	illegal 0,65536
656 2	direct imaging flag set to Y in DB niriss_exposure_specification.direct_image
656 2	exposures populated in order AMI then Direct
PSF Reference Observations	
885 1-4	generally two observations with PA OFFSET and SEQ NON-INT
gen req	warning Science observations should be linked to at least one other compatible science observation by an Aperture PA Offset of 1-14 degrees
656 1	This is a PSF Reference Observation
656 1	display in GUI "proprietary period will be 0 months"
656 3	PSF Reference Observations, select for science obs
659 1	exception self reference survey
656 5	only list obs which use same instrument, coron mask, and filter ordered so PSF Ref Obs checked come first
659 1	Additional Justification, will not have separate PSF obs as part of a self reference survey

659 4	error to have nothing checked in PSF Reference Obs
659 2	error to choose other science obs that aren't designated PSF