

NIRCam Focus

Program, Obs(.LinActPos)	Comment
Template Specific Information	
616 1	NIRCam Focus template exists
616 1	Field: Module A or B
616 1	Field: Filter choose from list
616 1	Field: Pupil choose from list
616 1	Field: Readout Pattern choose from list
616 1	Field: Number of Groups/Integration number
616 1	Field: Number of Integrations/Exposure number
616 1	Field: Starting position in Steps number
616 1	Field: Starting Position in Sensor Units number
616 1	Field: Starting Motor Phases number
616 1.01	Field: Linear Actuator Positions array of 1-10 positions
Module	
706 1	A
706 2	B
Filter	
706 3	May select filter pair
706 1	May select single filter
706 2	May select no filters
Short Filter	
706 3	F070W
706 4	F090W
706 5	F115W
706 6	F150W
706 7	F150W2
706 8	F200W
706 9	F140M
706 10	F182M
706 11	F210M
706 12	F187N
706 13	F212N
706 14	WLP4
Long Filter	
706 15	F277W
706 16	F322W2
706 17	F356W
706 18	F444W
706 19	F250M
706 20	F300M
706 21	F335M
706 22	F360M
706 23	F410M
706 24	F430M
706 25	F460M
706 26	F480M

Pupil	
Short Pupil	
706 28	May select pupil pair
706 27	May select single pupil
706 1	May select no pupils
706 27	CLEAR
706 28	MASKRND
706 29	MASKBAR
706 30	F162M
706 31	F164N
706 34	GDHS0
706 35	GDHS60
706 36	PINHOLES
706 37	WLP8
706 38	WLM8
Long Pupil	
706 39	CLEAR
706 40	MASKRND
706 41	MASKBAR
706 42	F323N
706 43	F405N
706 45	F466N
706 46	F470N
706 48	GRISMR
706 49	GRISMC
706 50	PINHOLES
Readout Pattern	
706 59	RAPID
706 58	BRIGHT1
706 57	BRIGHT2
706 56	SHALLOW2
706 55	SHALLOW4
706 54	MEDIUM2
706 53	MEDIUM8
706 52	DEEP2
706 51	DEEP8
Number of Groups/Integration	
706 3	number max value is 10 except 20 for DEEPs
Number of Integrations/Exposure	
706 3	number max value is 10
Legal NGROUPS NINTS maximums	
6815 19	RAPID
6815 18	BRIGHT1
6815 17	BRIGHT2
6815 16	SHALLOW2
6815 15	SHALLOW4
6815 14	MEDIUM2
6815 13	MEDIUM8
6815 12	DEEP2

6815 11	DEEP8
Legal NGROUPS NINTS minimums	
6815 54	RAPID
6815 53	BRIGHT1
6815 52	BRIGHT2
6815 51	SHALLOW2
6815 50	SHALLOW4
6815 49	MEDIUM2
6815 48	MEDIUM8
6815 47	DEEP2
6815 46	DEEP8
Illegal NGROUPS NINTS maximums	
941 28	RAPID
941 27	BRIGHT1
941 26	BRIGHT2
941 25	SHALLOW2
941 24	SHALLOW4
941 23	MEDIUM2
941 22	MEDIUM8
941 21	DEEP2
941 20	DEEP8
Legal NGROUPS NINTS minimums	
941 54	RAPID
941 53	BRIGHT1
941 52	BRIGHT2
941 51	SHALLOW2
941 50	SHALLOW4
941 49	MEDIUM2
941 48	MEDIUM8
941 47	DEEP2
941 46	DEEP8
Linear Actuators	
Starting Position in Steps	
706 1	Starting Position of each actuator in steps (-11900 to +11900)
706 3	Linear Actuator 1, Linear Actuator 2, Linear Actuator 3 = -11900
706 15	Linear Actuator 1, Linear Actuator 3 = -11899
706 50	Linear Actuator 2 = -11899
706 38	Linear Actuator 1 = Linear Actuator 2 = 11900
706 59	Linear Actuator 3 = 11900
706 39	Linear Actuator 1, Linear Actuator 3 = 11899
706 15	Linear Actuator 2 = 11899
941 56	illegal max
941 55	illegal min
Starting Position in Sensor Units	
706 3	Starting Position of each actuator in sensor units (-32767 to 32767)

706 3	Linear Actuator 1, Linear Actuator 2, Linear Actuator 3 = -32767
706 15	Linear Actuator 1 = -32766
706 38	Linear Actuator 2 = -32766
706 26	Linear Actuator 3 = -32766
706 39	Linear Actuator 1 = 32767
706 59	Linear Actuator 2 = 32767
706 50	Linear Actuator 3 = 32767
706 38	Linear Actuator 1 = 32766
706 26	Linear Actuator 2 = 32766
706 51	Linear Actuator 3 = 32766
941 56	illegal max
941 55	illegal min
Starting Motor Phases	
706 1	Starting Motor Phase of each actuator (1-6)
706 1	Linear Actuator 1=1, Linear Actuator 2=5, Linear Actuator 2=1
706 3	Linear Actuator 1=2, Linear Actuator 2=6, Linear Actuator 2=2
706 15	Linear Actuator 1=3, Linear Actuator 2=4, Linear Actuator 2=5
706 27	Linear Actuator 1=6, Linear Actuator 2=2, Linear Actuator 2=4
706 39	Linear Actuator 1=5, Linear Actuator 2=1, Linear Actuator 2=3
706 51	Linear Actuator 1=4, Linear Actuator 2=3, Linear Actuator 2=6
941 56	illegal max
941 55	illegal min
Linear Actuator Positions	
616 1 (1) 616 8 (10)	1-10 sets of positions
941 55	illegal 0 positions
941 56	illegal 11 positions
706 1	Individual actuator values -11900 to 11900
706 3	Linear Actuator 1, Linear Actuator 2, Linear Actuator 3 = -11900
706 27	Linear Actuator 1, Linear Actuator 3 = -11899
706 26	Linear Actuator 2 = -11899
706 50	Linear Actuator 1 = 11900
706 51	Linear Actuator 2 = 11900
706 26	Linear Actuator 1, Linear Actuator 3 = 11899
706 27	Linear Actuator 2 = 11899
616 1	one position focus adjusted to that position and stays there
706 59	If multiple positions listed, executed in exact order specified (can test with timing output PR 84030 and PR 87320)