

NEWFIRM Filters for 2008A

This document tabulates the filter set installed in NEWFIRM for 2008A. The first table lists the user names and associated filter wheel position pairs for the user interface GUIs. The second table lists the individual pieces of glass in each wheel position.

For filter transmission curves and other properties of the individual pieces of glass, see the Filter Properties document.

Table 1. Filter user names and associated filter wheel position pairs for 2008A.

User name	FW1 (upper) Position	FW2 (lower) position
J	1	8
H	2	1
Ks	3	8
1056	4	4
1063	4	5
J1 Yale	5	6
J2 Yale	6	7
J3 Yale	7	7
H1 Yale	2	2
H2 Yale	2	3
Dark	3	6

Table 2. Individual filter (single piece of glass) in each filter wheel position.

Filter wheel	Pos 1	Pos 2	Pos 3	Pos 4	Pos 5	Pos 6	Pos 7	Pos 8
Upper FW1	JX	H1+2 blocker	KXs	1060 blocker	J1	J2	J3	open
Lower FW2	H 127	H1	H2	1056 nm	1063 nm	J1 blocker	J2+3 blocker	open

Important changes from previous configurations:

1. Broadband JX filter moved to permanent position in upper wheel.
2. Broadband Ks is now defined by KXs, a new, single piece filter in upper wheel.
3. H bandpass is still defined by H 127, but out of band blocking is provided by the Yale H1+2 blocker rather than the H+K blocker. This allows the full Yale set to be accommodated.
4. The 1056 nm and 1063 nm filters are moved to the lower wheel, and the 1060 blocker is moved to the upper wheel.
5. The “dark” position is a pair of filters with non-overlapping bandpasses and high optical density out-of-band blocking. This is another choice that allows the full Yale set to be accommodated.
6. First use of the Yale intermediate band J and H set.