

## NEWFIRM Filters for 2009B

This document tabulates the filter set installed in NEWFIRM for 2009B. 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 filter wheel position pairs for 2009B.

User name	FW1 (upper) Position	FW2 (lower) position
J	8	1
H	2	8
Ks	3	8
1056	4	4
1063	4	5
1187	1	1
2096	3	3
1644	5	6
2124	6	7
2168	7	7
Dark	2	2

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	1187 nm	HX	KXs	1060 blocker	1644 nm	2124 nm	2168 nm	open
Lower FW2	JX	Dark slide	2096 nm	1056 nm	1063 nm	1644 blocker	2124/68 blocker	open

Important changes from previous configurations:

1. "Dark" is a cold black metal blank, a true "dark slide".
2. JX is moved to wheel 2 at the request of the science user for the 1187 nm narrowband filter. These two are used in series, and this order has been shown to be less affected by ghosting from bright stars than the reverse order. Since broadband J imaging uses only the single JX piece of glass, it should be unaffected by this move.