Nikon Filter Chart

Name	Excitation	Dichroic	Emission	Comments
Cy5 Faster	640 - 659	673-735	677-712	Individual Excitation LEDs, Single Quad Band Dichroic Filter, Single Quad Band Emission Filter
mCherry Faster	548 - 573	586-628	590-624	This is the faster method of capture since only the high speed LEDs turn on/off via USB control.
GFP Faster	473 - 497	506-531	510-531	However you may experience some bleedthough* of dyes into other channels.
DAPI Faster	381 - 394	412-462	420-460	LED on/off time ~1 usec, Dichroic Change time ~1 sec, Emission Change time ~ 100 msec
DIC Faster	Halogen	Quad Band	Polariser	
Cy5 Fast	640 - 659	673-735	672-712	Individual Excitation LEDs, Single Quad Band Dichroic Filter, Individual Emission Filters.
mCherry Fast	548 - 573	586-628	590-625	This is the slower method of capture, since Bandpass Emission Filters move.
GFP Fast	473 - 497	506-531	510-540	The Benefit is that you are less likely to experience bleedthrough*.
DAPI Fast	381 - 394	412-462	420-460	
DIC Fast	Halogen	Quad Band	Polariser	
RFP Triple	570-599	614-642	613-649	Individual Excitation LEDs, Single Quad Band Dichroic Filter, Individual Emission Filters.
	473 - 497	520-540	520-540	This is the slower method of capture, since Bandpass Emission Filters move.
	381 - 394	446-468	446-468	The Benefit is that you are less likely to experience bleedthrough*.
	Halogen	Triple Band	Polariser	
RFP Dual	570-599	610-660	613-649	Individual Excitation LEDs, Single Quad Band Dichroic Filter, Individual Emission Filters.
GFP Dual	473 - 497	510-560	510-538	This is the slower method of capture, since Bandpass Emission Filters move.
DIC Dual	Halogen	Dual Band	Polariser	The Benefit is that you are less likely to experience bleedthrough*.
YFP	497-512	520-595	529-555	Individual Excitation LEDs, Single Quad Band Dichroic Filter, Individual Emission Filters.
CFP	421-434	440-485	459-499	This is the slower method of capture, since Bandpass Emission Filters move.
DIC Dual	Halogen	Dual Band	Polariser	The Benefit is that you are less likely to experience bleedthrough*.
GFP LP	473-497	488 LP	505-950	Individual Excitation LEDs, Single Quad Band Dichroic Filter, Individual Emission Filters.
				This is the slower method of capture, since Bandpass Emission Filters move.
DIC	Halogen	Polariser	Empty	The Benefit is that you are less likely to experience bleedthrough*.
Cy5 Fastest	640 - 659	673-735	677-712	Individual Excitation LEDs, Single Quad Band Dichroic Filter, Single Quad Band Emission Filter
mCherry Fastest	548 - 573	586-628	590-624	This is the fastest method of capture since only the high speed LEDs turn on/off via TTL pulses
GFP Fastest	473 - 497	506-531	510-531	However you may experience some bleedthough* of dyes into other channels.
DAPI Fastest	381 - 394	412-462	420-460	
Multi Fastest				Multiple Fastest captures at the highest speed possible, with the same camera exposure time

^{*}Bleedthrough - This occurs when two dyes are excited by the one excitation filter and then emit at different wavelengths.

If the emission filter transmits both wavelengths, then the monochrome camera is unable to distinguish them.