

OBS Filter Chart

Name	Excitation	Dichroic	Emission	Comments
DIC	Halogen	DIC cube	Empty	Halogen Lightsource Combined with DIC Polarising Filter Cube and Condensor Optics
Cy5 Fast	640 - 659	673-735	677-712	Individual Excitation Filters, Single Quad Band Dichroic Filter, Single Quad Band Emission Filter This is the fastest method of capture since only the high speed Excitation Filter wheel moves. However you may experience some bleedthrough* of dyes into other channels.
mCherry Fast	548 - 573	586-628	590-624	
GFP Fast	473 - 497	506-531	510-531	
DAPI Fast	381 - 394	412-462	420-460	
Cy5 HQ	640 - 659	673-735	672-712	Individual Excitation Filters, Single Quad Band Dichroic Filter, Individual Emission Filters. This is the slower method of capture, since both the high speed Excitation and Emission Filters move. The Benefit is that you are less likely to experience bleedthrough*.
mCherry HQ	548 - 573	586-628	590-625	
GFP HQ	473 - 497	506-531	510-540	
DAPI HQ	381 - 394	412-462	420-460	
RFP Triple	570-599	614-642	614-642	Individual Excitation Filters, Single Triple Band Dichroic Filter, Individual Emission Filters. This is the slower method of capture, since both the high speed Excitation and Emission Filters move. The Benefit is that you are less likely to experience bleedthrough*.
GFP Triple	473 - 497	520-540	520-540	
DAPI Triple	381 - 394	446-468	446-468	
RFP Dual	570-599	610-660	613-644	Individual Excitation Filters, Single Triple Band Dichroic Filter, Individual Emission Filters. This is the slower method of capture, since both the high speed Excitation and Emission Filters move. The Benefit is that you are less likely to experience bleedthrough*.
GFP Dual	473 - 497	510-560	510-538	
YFP	498-510	530-569	532-555	Individual Excitation Filters, Single Triple Band Dichroic Filter, Individual Emission Filters. This is the slower method of capture, since both the high speed Excitation and Emission Filters move. The Benefit is that you are less likely to experience bleedthrough*.
CFP	422-432	449-483	457-476	
GFP LP	473-497	488 LP	505-950	Individual Excitation Filters, Single Long Pass Dichroic Filter, Single Long Pass Emission Filter. This is the slower method of capture, since both the high speed Excitation and Emission Filters move. The Benefit is that you are less likely to experience bleedthrough*.

*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.