



# DeltaVision™ Elite Filter Set Charts

December 18<sup>th</sup>, 2014

**Imagination at work**

# DeltaVision™ Elite Filter Set Charts

## Recommended Use

Use the chart subtitles to determine which chart best represents the configuration of your DeltaVision system.

Print that chart and post it near the DeltaVision system for reference.

The chart shows the available filter sets as well as the individual channels that can be imaged with each filter set.

For non-standard dyes/fluorophores, match absorption and emission data with excitation and emission information in the chart to select the most appropriate channel to use for imaging.

Information is valid only for DV systems with SSI units (not Xe or Hg lamps).



# DeltaVision™ Elite Filter Sets

7 Color SSI with Manual Polychroic Turret and Standard Stage

Polychroic Position	Filter Set	Channels	Middle Wavelength/Bandpass	
			Excitation	Emission
1	DAPI-FITC-TRITC-Cy™5	DAPI	390/18	435/48
		FITC	475/28	525/48
		TRITC	542/27	597/45
		Cy5	632/22	679/34
2	DAPI-FITC-mCh-Cy5*	DAPI	390/18	435/48
		FITC	475/28	525/48
		mCherry	575/25	625/45
		Cy5	632/22	679/34
3	CFP-YFP-mCh*	CFP	438/24	475/24
		YFP	513/17	548/22
		mCherry	575/25	625/45

## To change filter sets:

1. Rotate the polychroic turret to the position indicated above.
2. In the Resolve3D window, click **Settings** then select the **Misc** tab.
3. In the Filter Set section, change Excitation, Emission and Eyepiece drop-down menus to the filter set indicated above.
4. Click **Activate Filter Sets**.

\* DAPI-FITC-mCh-Cy5 and CFP-YFP-mCh filter sets may have corresponding multi-bandpass emission filters associated. To use these filters, select one of the "hs" options (i.e. hsGFP) from the **EM Filter** drop-down menu.



# DeltaVision™ Elite Filter Sets

7 Color SSI with Motorized Polychroic Turret and/or Microtiter Stage

Polychroic Name (Position)	Filter Set	Channels	Middle Wavelength/Bandpass	
			Excitation	Emission
D-F-T-C (Position 1)	DAPI-FITC-TRITC-Cy™5	DAPI	390/18	435/48
		FITC	475/28	525/48
		TRITC	542/27	597/45
		Cy5	632/22	679/34
D-F-mCh-C (Position 2)	DAPI-FITC-mCh-Cy5*	DAPI	390/18	435/48
		FITC	475/28	525/48
		mCherry	575/25	625/45
		Cy5	632/22	679/34
C-Y-mCh (Position 3)	CFP-YFP-mCh*	CFP	438/24	475/24
		YFP	513/17	548/22
		mCherry	575/25	625/45

## To change filter sets:

1. In Resolve3D, use the **Polychroic** drop-down menu to choose the appropriate polychroic. If polychroic turret is non-motorized, rotate the turret to the position indicated above.
2. In the Resolve3D window, click **Settings** then select the **Misc** tab.
3. In the Filter Set section, change Excitation, Emission and Eyepiece drop-down menus to the filter set indicated above.
4. Click **Activate Filter Sets**.

\* DAPI-FITC-mCh-Cy5 and CFP-YFP-mCh filter sets may have corresponding multi-bandpass emission filters associated. To use these filters, select one of the "hs" options (i.e. hsGFP) from the **EM Filter** drop-down menu.



# DeltaVision™ Elite Filter Set

## 4 Color “Fixed” SSI

Polychroic Position	Filter Set	Channels	Middle Wavelength/Bandpass	
			Excitation	Emission
1	DAPI-FITC-TRITC-Cy™5	DAPI	390/18	435/48
		FITC	475/28	525/48
		TRITC	542/27	597/45
		Cy5	632/22	679/34

### To change filter sets:

1. Rotate the polychroic turret to the position indicated above.
2. In the Resolve3D window, click **Settings** then select the **Misc** tab.
3. In the Filter Set section, change Excitation, Emission and Eyepiece drop-down menus to the filter set indicated above.
4. Click **Activate Filter Sets**.



# DeltaVision™ Elite Filter Sets

## 4 Color “Fluorescent Protein” SSI

Polychroic Position	Filter Set	Channels	Middle Wavelength/Bandpass	
			Excitation	Emission
1	GFP-mCherry	FITC	475/28	525/48
		mCherry	575/25	625/45
2	CFP-YFP-mCh	CFP	438/24	475/24
		YFP	513/17	548/22
		mCherry	575/25	625/45

To change filter sets, rotate the polychroic turret to the position indicated above.



Products are for research purposes only. They are not approved for diagnosis of disease in humans or animals.

GE and GE Monogram are trademarks of General Electric Company.

Cy and DeltaVision are trademarks of GE Healthcare companies.

All goods and services are sold subject to the terms and conditions of sale of the company within GE Healthcare which supplies them. GE Healthcare reserves the right, subject to any regulatory and contractual approval, if required, to make changes in specifications and features shown herein, or discontinue the product described at any time without notice or obligation. Contact your local GE Healthcare representative for the most current information.

© 2014 General Electric Company – All rights reserved. First published December 2014.

GE Healthcare UK Limited  
Amersham Place  
Little Chalfont  
Buckinghamshire, HP7 9NA  
UK

