

ImageXpress® Confocal HT.ai: Filter Specifications and Calibration Compatibility

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Products : ImageXpress Confocal HT.ai

Filter Specifications and Calibration Compatibility for the ImageXpress Confocal HT.ai System

Filter Set ¹	Wavelengths ^{2,3,4}	Common Fluorophores	Shading Correction Plate	Calibration Slide
DAPI	Excitation: 405/20 nm Emission: 452/45 nm Dichroic: FF409-Di03	DAPI, Hoechst, Alexa Fluor 350, BFP	Pink	Green (GP-8)
CFP	Excitation: 445/20 nm Emission: 483/32 nm Dichroic: ZT 445/520	CFP	Pink	Yellow (GP-11)
FITC	Excitation: 467.5/21 nm Emission: 520/28 nm Dichroic: ZT 405/470/555/640/730 or FF506-Di03	FITC, GFP, FAM, Alexa Fluor 488, BODIPY, Calcein, Fluo-4, MitoTracker Green	Pink	Yellow (GP-11)
YFP	Excitation: 520/10 nm Emission: 562/40 nm Dichroic: ZT 445/520	YFP	Green	Red (GP-7)
TRITC	Excitation: 555 nm Emission: 598/28 nm Dichroic: ZT 405/470/555/640/730	Cy3, TRITC, Alexa Fluor 532 & 546 & 555, Rhodamine, TAMRA, LysoTracker Yellow, MitoTracker Orange	Red	Red (GP-7)
Texas Red	Excitation: 555 nm Emission: 624/40 nm Dichroic: FF593-Di03-25	Texas Red, mCherry, Alexa Fluor 568 & 594, Calcium Crimson, Cy3.5, HcRed, MitoTracker Red, Propidium Iodide	Red	Red (GP-7)
Cy5	Excitation: 638/17 nm Emission: 692/40 nm Dichroic: ZT 405/470/555/640/730	Cy5, Alexa Fluor 647 & 660, DRAQ5, APC (Allophycocyanin), BODIPY 650/665, DiD, SYTO Red, TOTO-3, and TO-PRO-3	Pink	Red (GP-7)
Cy7	Excitation: 725/30 nm Emission: 794/32 nm Dichroic: ZT 405/470/555/640/730	Cy7	not supported	not supported

Notes:

¹The filter combinations shown above are the standard filter sets. On the ImageXpress Confocal HT.ai system, the excitation, dichroic, and emission wavelengths are independently controlled, so you can create other combinations in the **Configure Illumination** dialog as appropriate for your fluorophores. Check the ImageXpress Confocal HT.ai user guide for more details on configuring illumination settings. See [High Content Screening Software Manual and Computer Specification Download Page MetaXpress software version 6](#).

²Interested in other excitation wavelengths? [Contact us](#) to inquire about custom light source options.

³The dichroic mirrors are not user-replaceable on the ImageXpress Confocal HT.ai system.

⁴The 8-position emission filter wheel uses standard, commercially available, 25 mm filters, 3.5 mm mounted thickness. Custom filters can be purchased through Molecular Devices or your preferred filter supplier. Molecular Devices offers and recommends Semrock filters, based on ImageXpress Confocal HT.ai System validation testing.