

IRIDIAN PCR FILTERS



Iridian Spectral Technologies

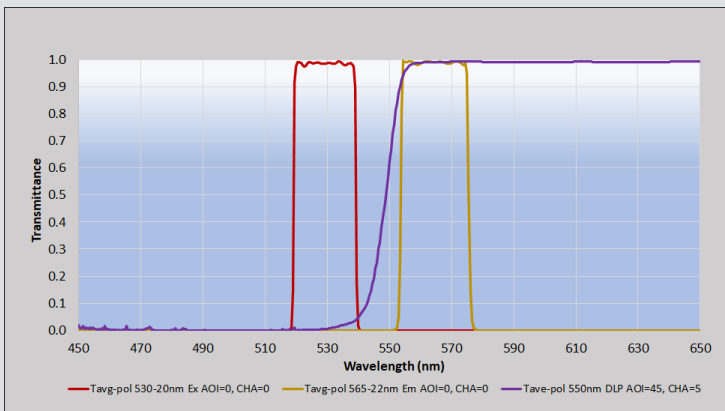
Iridian, the leader in optical filter solutions, now offers ultra performance filters specially designed for Real-Time PCR applications. Our standard filter solutions are compatible with common excitation sources and fluorophores but we specialize in customized filter solutions. The ultra PCR fluorescence filter sets are designed to provide a high signal-to-noise ratio of the probes contained in Real-Time PCR samples when illuminated with a LED light source.

Iridian's emission, excitation and dichroic filters provide more signal with less background to the fluorescence instrument users and OEMs. They provide:

- High transmission/reflection levels
- Low ripple
- Steep edges
- Deep blocking outside of pass band

HEX/VIC/JOE Channel:

EX Filter: 530-20nm; Dichroic: 550DLP; EM Filter: 565-22nm



Excitation and Emission Filters

- Tx >95% average on passband
- Blocking > OD6 outside passband
- AOI: 0 - 5 degrees; CHA 5 degrees
- Edge Steepness < 0.5% (50%Tmax - OD5)
- Wavelength Range: 350-850 nm
- Custom sizing available

Dichroic Filters

- Tx >95% average for the passband
- Reflection >97% over the reflection range
- AOI: 45 +/- 2 degrees; CHA 5 degrees
- Edge Steepness < 1% (10%T - 90%T)
- Wavelength Range: 350-850 nm
- Custom sizing available

Other fluorochrome and wavelengths are also available upon request.

Iridian specializes in partnering with our customers to develop custom filter solutions and provides a proven high volume optical filter supply chain. Please contact us to discuss your optical filter needs.



Iridian Spectral Technologies Ltd (Iridian) is a diversified optical filter manufacturer that is an international leader in filter design and manufacture especially for application in the fields of fiber optic communications, optical spectroscopy, 3D entertainment, and in aerospace. Iridian is a global supplier with distributors in many countries.

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IRIDIAN THE LEADER IN OPTICAL FILTER SOLUTIONS

SPECTRAL TECHNOLOGIES

Iridian Spectral Technologies Ltd. 2700 Swansea Crescent, Ottawa, ON K1G 6R8

Tel: 613-741-4513 | Fax: 613-741-9986 | E-mail: inquiries@iridian.ca | www.iridian.ca

PCR Dichroic Filters

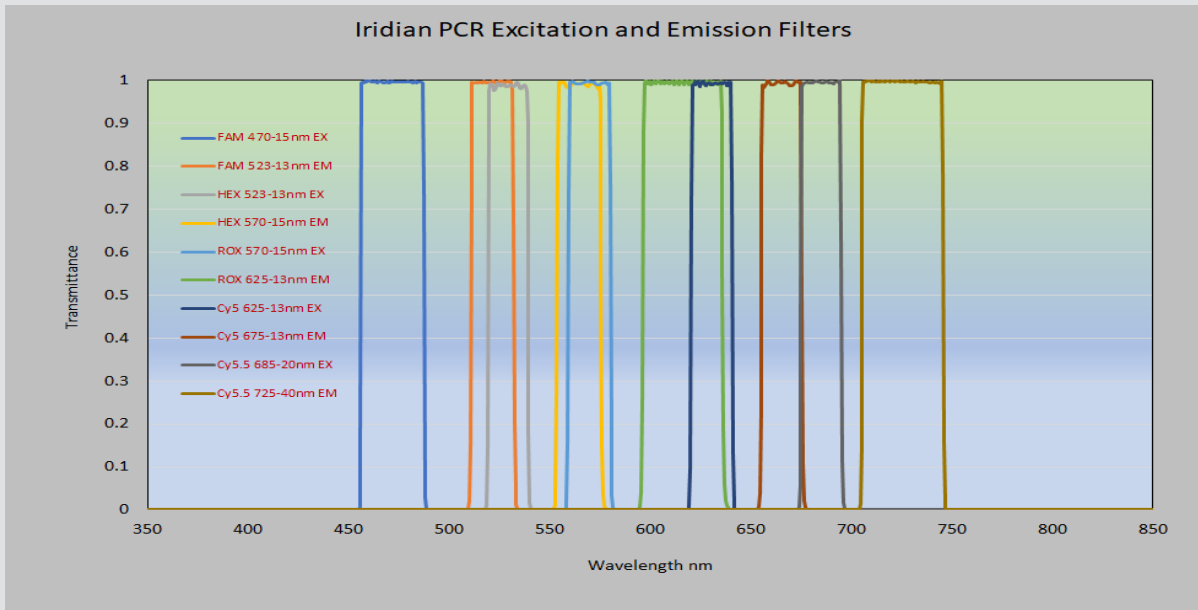
- Mechanical:
 - Filters: 12 x 8 mm, 12 x 17 mm
 - Filter Thickness 1.1 mm
 - Clear aperture: > 90%
 - Substrate: Fused Silica
 - Scratch/Dig: 60/40
- Optical:
 - Tx > 95% average on passbands
 - Reflection > 97% over blocking range
 - AOI: 45 +/- 2 degrees; CHA: 5 degrees
 - Steep slope: < 1% (90%T - 10%T)

PCR Excitation and Emission Filters

- Mechanical:
 - Filters: 8 x 8 mm, 12 x 12 mm, 25 mm diam.
 - Filter Thickness 1.1 mm
 - Clear aperture: > 90 %
 - Substrate: Fused Silica
 - Scratch/Dig: 60/40
- Optical:
 - Tx >95 % average on passbands
 - Average blocking > OD6 from 350-850 nm outside of passband
 - Steep slope: < 0.5% (50% Tmax- OD5)
 - AOI: 0 - 5 degrees; CHA: 5 degrees

Dichroic Filters	
Fluorochrome	Filter Name
FAM Channel	PCR 505nm DLP
HEX Channel	PCR 550nm DLP
ROX Channel	PCR 590nm DLP
Cy5 Channel	PCR 647nm DLP
Cy5.5 Channel	PCR 700nm DLP

Excitation and Emission Filters	
Fluorochrome	
FAM Channel	470-15nm EX /523-13nm EM
HEX Channel	523-13nm EX/570-15nm EM
ROX Channel	570-15nm EX/625-13nm EM
Cy5 Channel	625-13nm EX/675-13nm EM
Cy5.5 Channel	685-20nm EX/725-40nm EM



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