

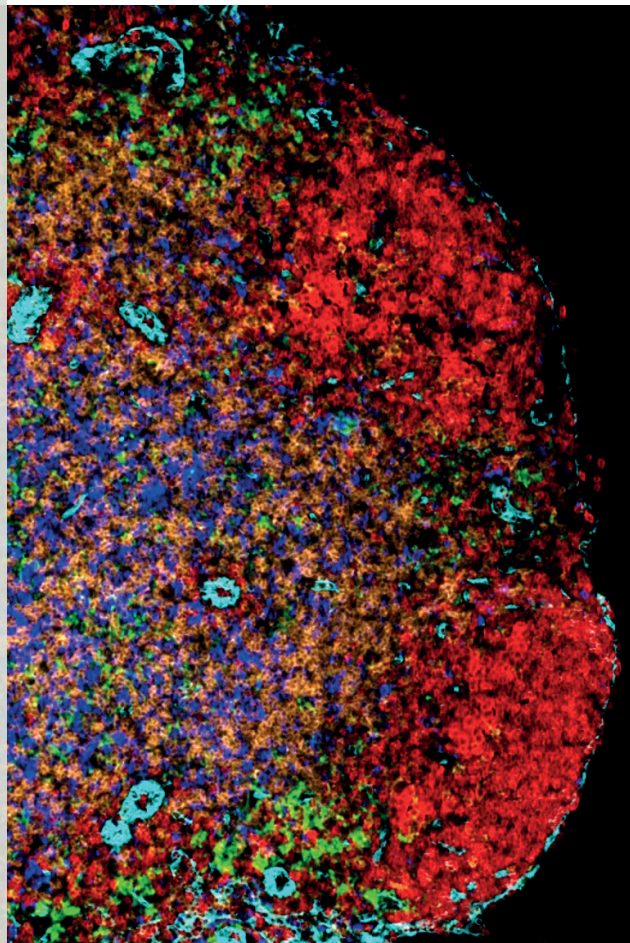
# SpectraSplit®

Simultaneous imaging in 7 or 10 channels for Spatial Biology



More channels.  
No spectral unmixing

SpectraSplit provides more channels in multiplex imaging without added complexity. The filter sets are optimized to separate fluorochromes directly in the optics, eliminating the need for spectral unmixing. The result is crisp, highfidelity multiplex images with direct signal separation.



SpectraSplit®

[www.kromnigon.com](http://www.kromnigon.com)

Image up to 10 fluorochromes  
in a single acquisition

No spectral unmixing required  
- what you see is what you collect

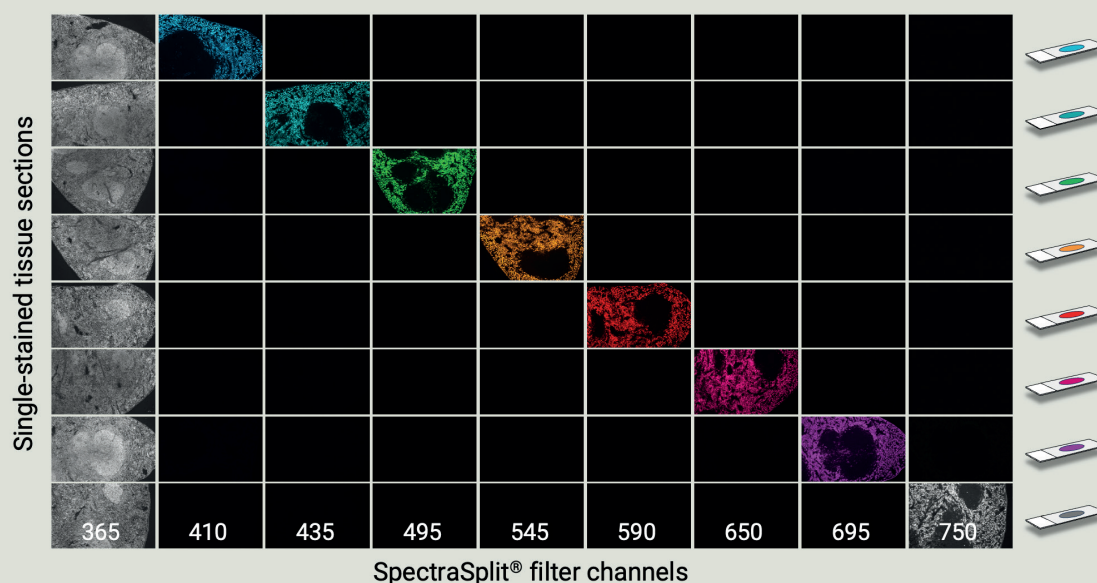
High signal-to-noise ratio  
- crisp images and fast scanning

Extends – not replaces  
your existing fluorochrome panel



# Unprocessed images. Clean signals in every channel

The figure below shows validation of the SpectraSplit®10 channels from DAPI to Cy7. Each row is a single-stained tissue section (DAPI + antibody fluorochrome) and each column corresponds to a SpectraSplit®10 channel. The validation confirms precise fluorochrome separation for each channel with no detectable bleed-through and high signal-to-noise ratios. SpectraSplit® delivers crisp, unprocessed images - what you see is what you collect.



## Specifications

### Easy integration with fluorescence microscopes

SpectraSplit is compatible with fluorescence microscopes using conventional optical filters. Filter sets can be installed in filter cubes or filter wheels and require no dedicated software.

### Light sources

SpectraSplit®7 is compatible with a range of light sources, including pE-800 and pE-4000 (CoolLED), X-Cite NOVEM (Excelitas), and SPECTRA X Light Engine, unfiltered version (Lumencor). SpectraSplit®10 is optimized for use with the pE-10 Illumination System (CoolLED) to ensure consistent performance across all channels.

### Filter set configuration

SpectraSplit®7 and SpectraSplit®10 include four and five filter sets, respectively. Each set comprises one excitation filter (25 mm diameter, 3.5 mm thickness), one emission filter (25 mm diameter, 3.5 mm thickness), and one dichroic mirror (25.5 × 36.0 × 1 mm).

### SpectraSplit®7

- Set 1: Triple-band set (375/495/740)
- Set 2: Double-band set (435/650)
- Set 3: Single-band set (545)
- Set 4: Single-band set (590)

### SpectraSplit®10

- Set 1b: Double-band set (495/750)
- Set 2b: Double-band set (435/650)
- Set 3b: Triple-band set (365/545/840)
- Set 4: Single-band set (590)
- Set 5: Double-band set (410/695)