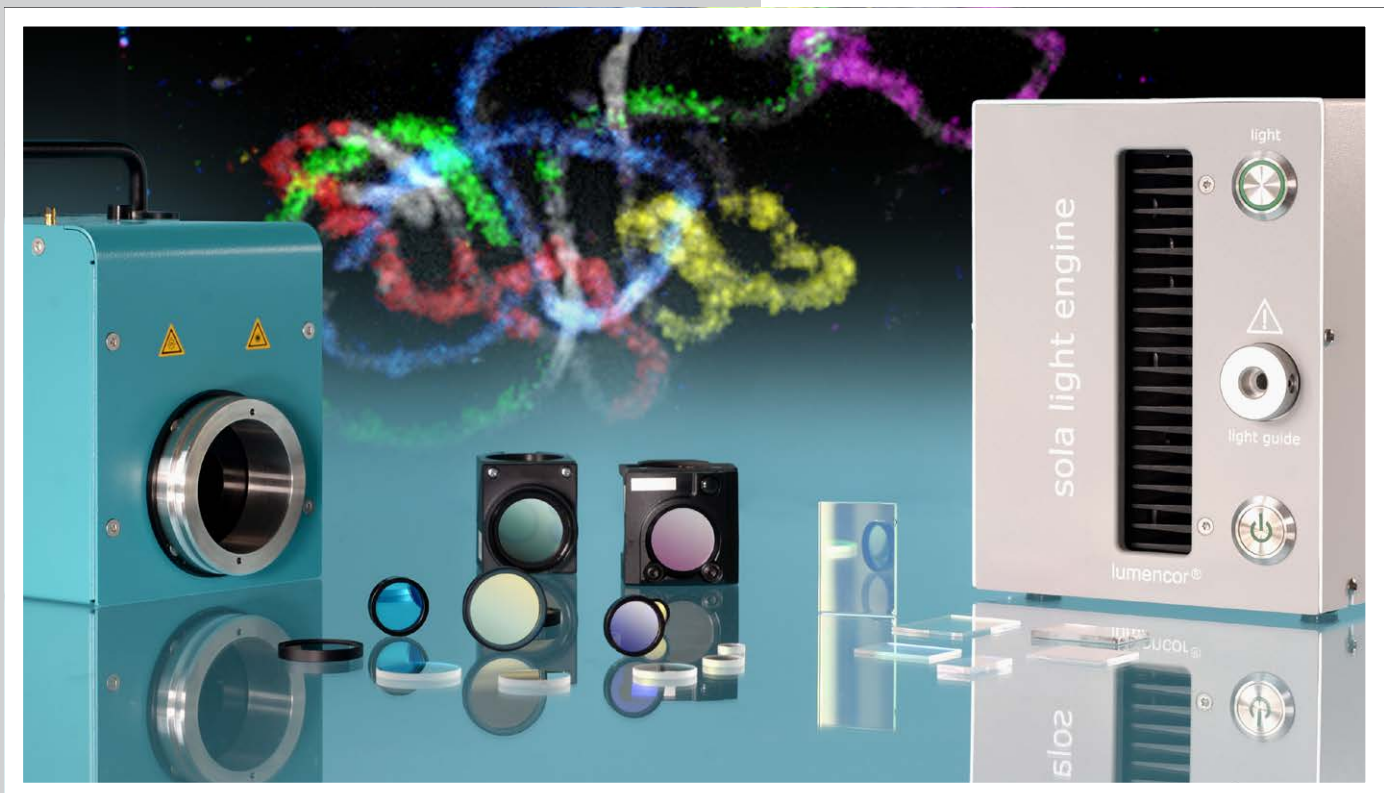


# OPTICAL FILTERS AND LED LIGHTING

For DNA diagnostics with FISH, mFISH, CGH and PCR



## A PERFECT MATCH FOR FISH

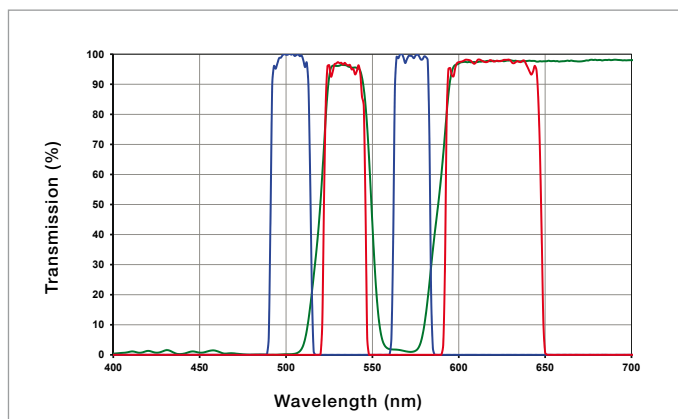
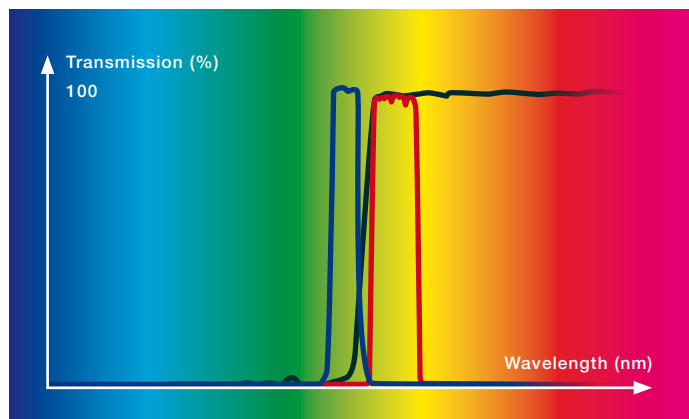
Fluorescence in situ hybridization is a widely used method to approach cytogenetic analysis of nucleic acids. Precise selection of optical filters and light sources plays a key role to achieve brilliant fluorescence signals with almost no background and cross talk. AHF offers state-of-the-art LED illumination and filter sets consisting of excitation filter, emission filter and beamsplitter which perfectly match your microscope set-up and fluorescence dyes.

## YOUR BENEFITS

- ✓ Reliable FISH results
- ✓ Optimum contrast of fluorochromes
- ✓ Precise blocking of autofluorescence plus adjacent dyes
- ✓ For every microscope
- ✓ Less maintenance costs

## FISH FILTER SETS: DYE AND MICROSCOPE-SPECIFIC

Our singleband and multiband filter sets for FISH applications with fluorescence microscopy are characterized by durability, excellent brightness, selectivity and minimal crosstalk. They are perfectly matched to probes from Abbott, MetaSystems, ZytoVision, Cytocell, Kreatech (Leica), etc.



### SINGLEBAND SETS

- :: Series of specific narrowband mFISH filter sets
- :: High transmission, minimum crosstalk
- :: For kits stained with DAPI – Blue – Aqua – Green – Gold – Orange – Red – Far Red – NIR – IR
- :: Matched to probes from Abbott, MetaSystems, ZytoVision, Cytocell, Kreatech (Leica)

### DUALBAND SET FOR mFISH

- :: Excellent for routine analysis
- :: Quick screening of Green/Orange-Red signals and Yellow colocalization signals
- :: Various multiband sets are available, fitting to various microscope set-ups

## LED LIGHT SOURCES: THE BETTER WAY OF ILLUMINATION

LED light sources are completely mercury-free and have a 10–100 times longer lifetime compared to arc lamps. They produce much less heat and can be switched on/off instantaneously as no warm-up or cooling-down time has to be considered. During their lifetime, LED light sources are maintenance-free.



### LUMENCOR SOLA FISH

- :: Highest output power avg > 5000 mW
- :: Spectral output 365 – 680 nm
- :: Light-guide-coupled
- :: Lifetime > 20,000 hours
- :: Control via software/controller



### AHF AF-2100

- :: High output power avg > 4000 mW
- :: Spectral output 365 – 680 nm
- :: Silent and vibration-free
- :: Direct microscope coupling
- :: Lifetime > 25,000 hours
- :: Control via software/controller