

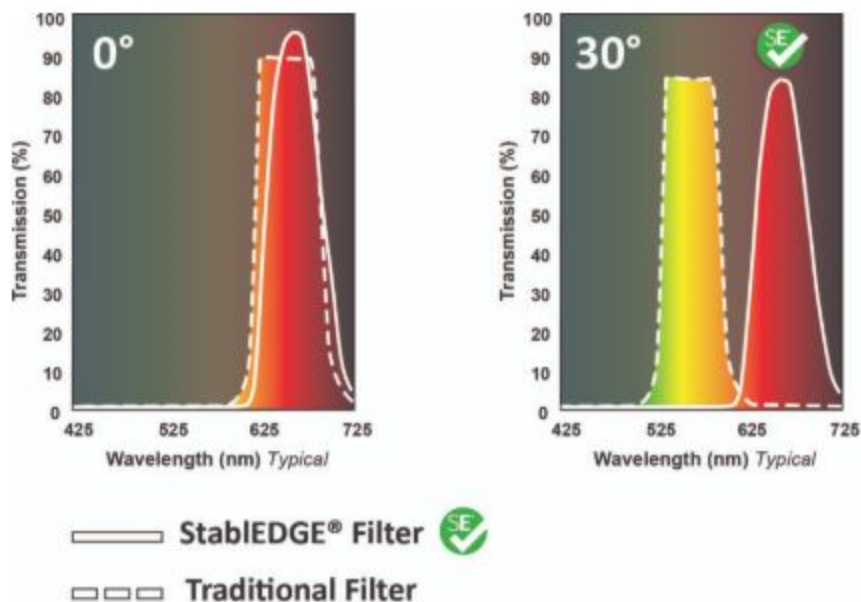


# Vision Light Tech

creating optical solutions

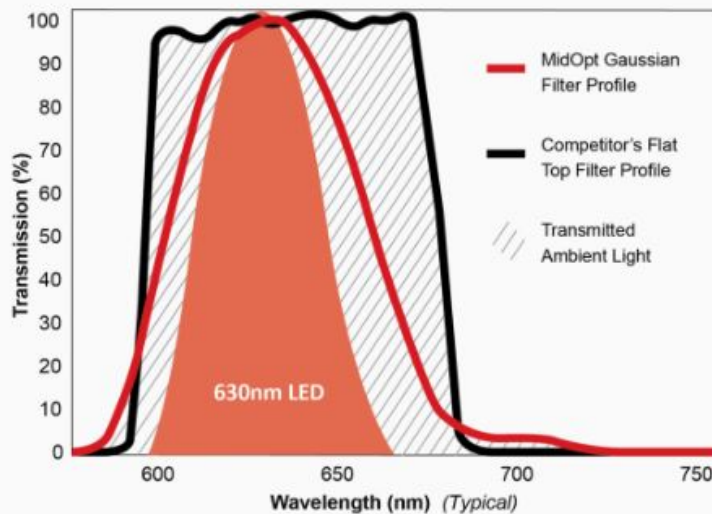
## 1. SUPERIOR WAVELENGTH CONTROL

Short-shifting occurs when the angle of light passing through a traditional filter increases. This is most commonly seen when the filter is placed in front of a lens with a focal length of 12mm or less. This accounts for almost 60% of all lenses used today – a number that continues to grow as the demand for space forces inspection footprints to shrink.



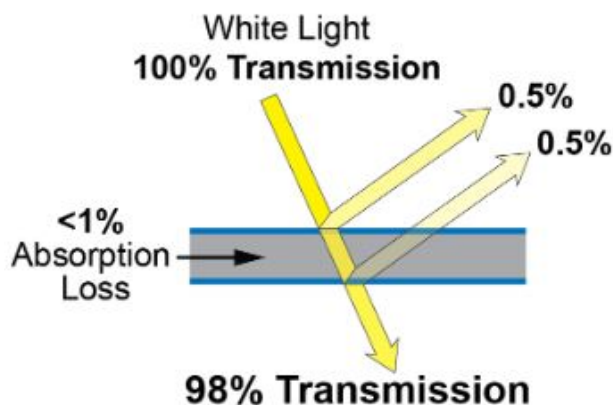
## 2. UNMATCHED PASSBAND PERFORMANCE

Some filters on the market have a high, flat transmission profile. With this design, an overwhelming amount of ambient light is able to pass through at the weaker tail ends of the LED spectral output curve. To ensure maximum performance, the position, height and width of the passband should emulate the bell-shaped spectral output curve of the LED illumination being used.



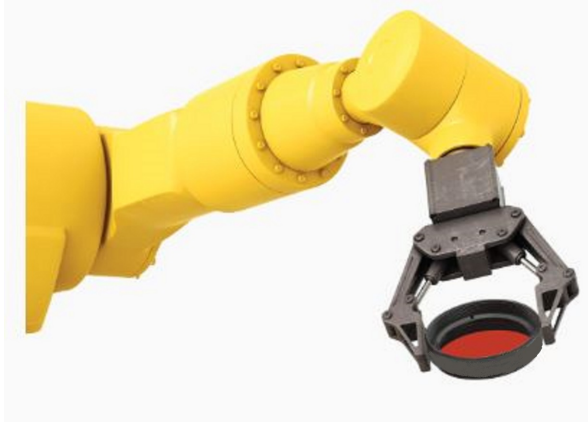
## 3. HIGH-TRANSMISSION ANTI-REFLECTION COATING

When a ray of light passes through a glass surface, a portion of the light is reflected, resulting in a 4% transmission loss per surface. MidOpt uses anti-reflection coating on all filter designs, reducing surface reflection to less than 1%. This improves the efficiency of the vision system by increasing transmission, enhancing contrast and eliminating ghost images.



#### **4. OPTIMAL PERFORMANCE & REPEATABILITY**

**We set the quality standard for machine vision filters. Every filter is examined to ensure near-flawless surface quality and is 100% inspected by state-of-the-art spectrophotometer technology to ensure optimal performance and repeatability. We use controlled torque when securing filters into their mounts, eliminating distortion and guaranteeing optical flatness.**



#### **5. CONVENIENT MOUNTING SOLUTIONS**

**We offer fast shipping and stock mounted filters, ranging in many different sizes. A variety of other mounting solutions are also available, including options for applications without filter threads, custom mounting solutions and the exclusive 25.4® C-Mount filter.**

