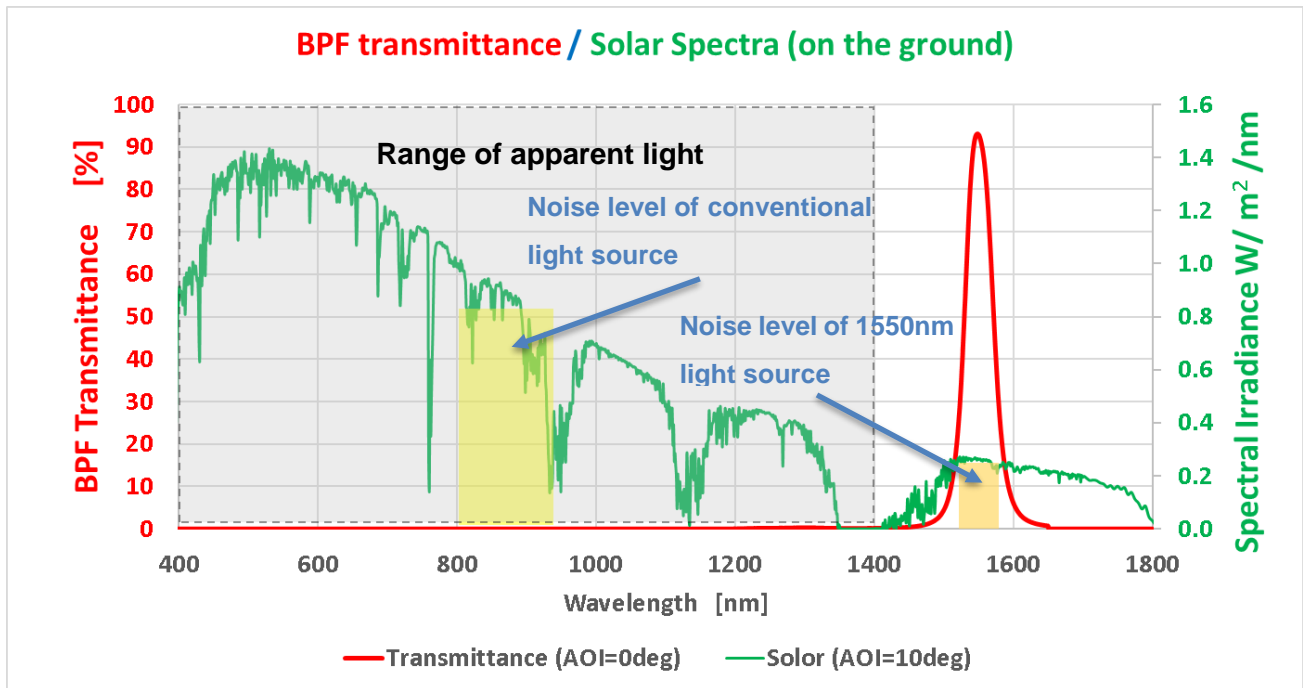


Optical Filters for Next Generation 1550nm Light Source

1. Features

New infrared transmission optical filters can be used with a 1550nm light source instead of a conventional 900nm one. The 1550nm light source is not subject to the output limits of IEC recommendations for eye protection because it is outside the apparent light range. You can get a better SN performance even under sunlight because the intensity of solar radiation around 1550nm is very weak.



2. Target Application

For a wavelength selection filter of optical sensing devices such as LiDAR, which uses a 1550nm band laser as a light source.

3. HOYA Material Solutions

A) RM100 (Colored Filter)

RM100 absorbs the visible light range below 800nm. The appearance is deep black.

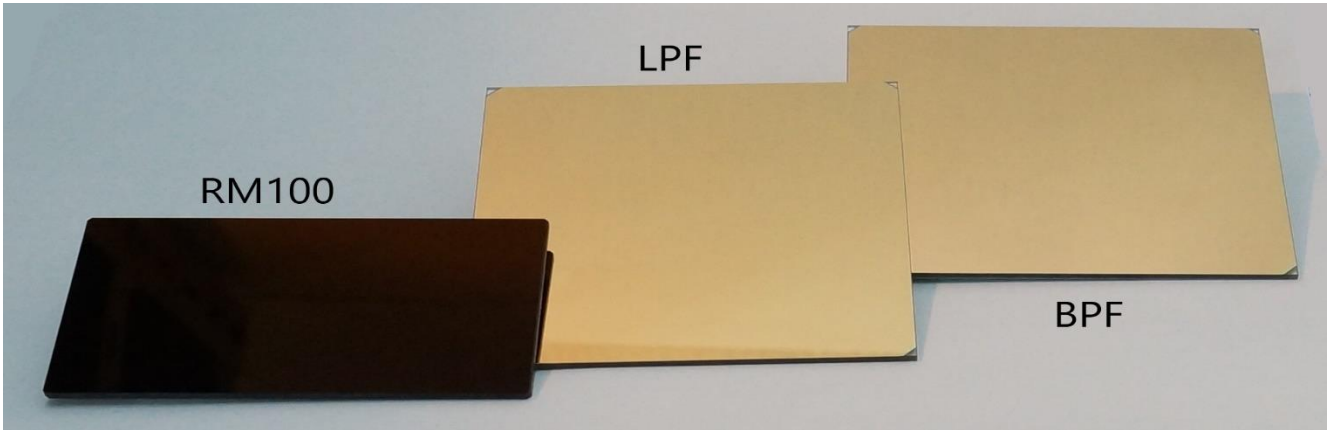
B) Long-pass filter (Coated Filter)

A coated filter that shields light below 1250nm and has a high transmittance above 1500nm.

Due to reducing the reflection of visible light, it is suitable for the exterior.

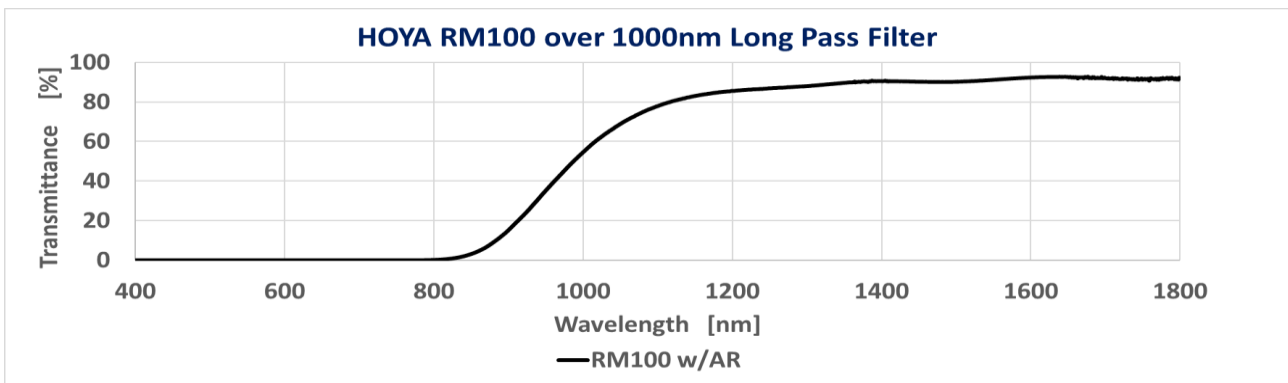
C) Band-pass filter (Coated Filter)

Designed with optimum optical characteristics for 1550nm narrow band devices that require high level SN. The reflection in the visible light range is reduced.

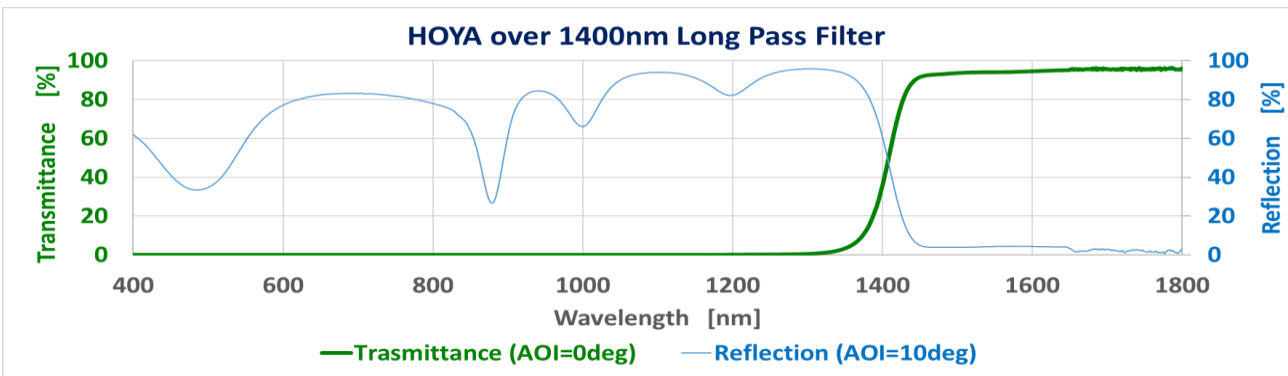


4. Spectral Characteristics

A) RM100 (t=2.5mm, double side AR coating)



B) Long Pass Filter



C) Band Pass Filter

