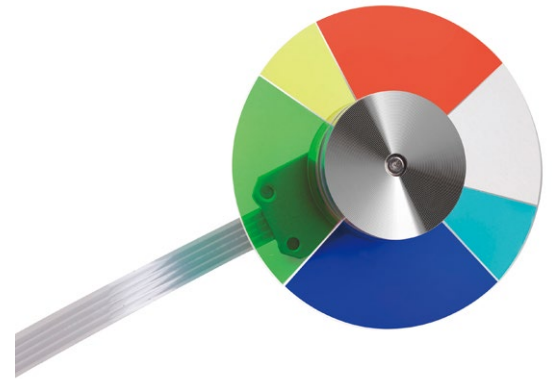




SilentWheel™

SilentWheel™ for Projection Display

Materion Balzers Optics offers new, improved SilentWheel™ with lower sound levels and longer projection life. It is the combination of our proven ColorWheel™ technology and the development of our innovative sleeve bearing motor technology.



Benefits

SilentWheel™ offers many additional benefits compared to standard product:

- Significantly improved lifetime
- Less initial sound level
- Less sound level increment in time
- Less high tone noise

The new and improved SilentWheel™ is produced with high precision engineering using state of the art machinery and has all the features the standard product offers including:

- High flexibility to customize diameter, segment angle, number of segments, etc.
- Patented (US pat.5,292,417) sputtering technology for the highest filter performance
- Patented construction

Applications

SilentWheel™ will meet the stringent requirements for sound, lifetime and cost sensitivity of projection systems. We also offer various configurations of the SilentWheel™ for various applications.

Technical Data

Diameter

From 33 to 100 mm

Operating speed

2 × 7200 rpm, 2.5 × 9000 rpm, 3 × 10,800 rpm

Spectral performance

According to customer specification

Spectral temperature stability

<0.3%, typical from 20°C to 100°C

Balancing

To better than G6.3 quality grade per ISO 1940 - 1986

Lifetime

L1 20,000 Hours (L1 = 1% failure point)

Sound pressure level

2 to 4 dBA less than ball bearing motor

Depending on rotation speed and Color Ring design

Operating temperature

0 to 85°C

Storage temperature

-20 to 85°C

Standard cable

180mm FFC

180mm FPC (other length may require tooling cost)

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