

AR Antireflection Coatings

AR Coatings

Uncoated glass surfaces reflect about 4-8% of incident light, causing ghost images by stray light and reduce image contrast. Anti reflection coatings minimize reflects. Schneider offers 4 types of AR coatings. A standard broadband Coating (E) for visible spectrum and 2 broadband multilayer resistant coating (MRC for VIS and MRCIR for NIR). They are hydrophobic and withstand mechanical and environmental stress.

V coatings are available on request; those custom coatings have an extreme low reflex at an optimized wavelength. Especially V-coatings are sensitive to angle of incidence.

Key Features

- Higher performance
- Reduce stray light
- MRC: high resistance to mechanical and environmental stress

Applications

- High quality filters for imaging
- Measurement Instruments
- High performance lenses

Technical Specifications

[AR Coating types](#)

E, MRC, MRCIR, V

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E Coating

E Coating

Uncoated glass surfaces reflect about 4-8% of incident light, causing ghost images by stray light and reduce image contrast. Anti reflection coatings minimize reflects. The E Coating is a broadband for VIS range.

Key Features

- Broadband AR Coating
- Reduce reflects for VIS Spectrum

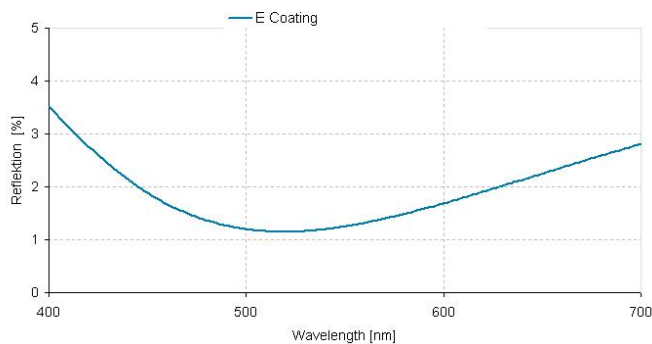
Applications

- High quality filters for imaging
- Measurement instruments

Technical Specifications

Coating types	E
Wavelength range	400 - 700 nm
Residual reflectivity ¹	1.3 %

¹ At $\lambda=525$ nm, for refractive index of substrate $n=1.52$



MRC Coating

MRC Coating

Uncoated glass surfaces reflect about 4-8% of incident light, causing ghost images by stray light and reduce image contrast. Anti reflection coatings minimize reflects.

The MRC Coating is a multilayer resistant broadband anti reflection coating for VIS range. It's hydrophobic and withstands mechanical and environmental stress.

Key Features

- Broadband AR Coating
- Multi resistant, withstand mechanical and environmental stress
- Hydrophobic
- reduce reflects for VIS Spectrum

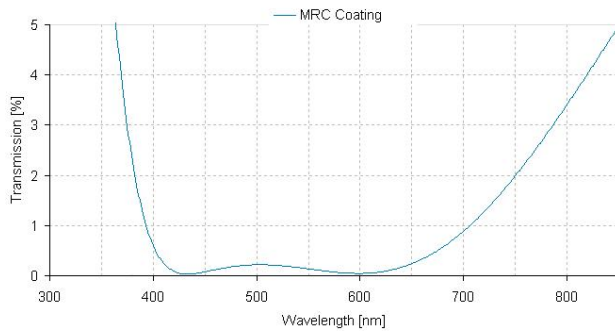
Applications

- High quality filters for imaging
- Measurement Instruments

Technical Specifications

Coating types	MRC
Wavelength range	400 nm - 680 nm
Residual reflectivity ¹	0.5 %

¹ For 420 nm < λ < 640 nm; 1% for full range



MRCIR Coating

MRCIR Coating

Uncoated glass surfaces reflect about 4-8% of incident light, causing ghost images by stray light and reduce image contrast. Anti reflection coatings minimize reflects.

The MRCIR Coating is a multi resistant broadband anti reflection coating for NIR range. It's hydrophobic and withstands mechanical and environmental stress.

Key Features

- Broadband AR Coating
- Multi resistant, withstand mechanical and environmental stress
- Hydrophobic
- reduce reflects for NIR Spectrum

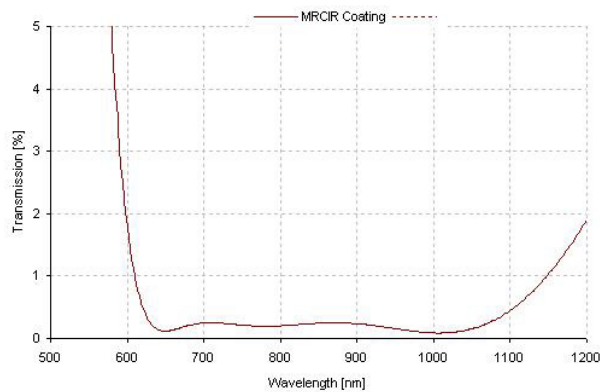
Applications

- High quality filters for NIR imaging
- Measurement Instruments

Technical Specifications

Coating types	MRCIR
Wavelength range	620 nm - 1100 nm
Residual reflectivity ¹	0.6 %

¹ For 640 nm < λ < 1064nm; 1% for full range



V Coating

V Coating

Uncoated glass surfaces reflect about 4-8% of incident light, causing ghost images by stray light and reduce image contrast. Anti reflection coatings minimize reflects.

Custom specific V-coatings have extremely low residual reflectivity at the optimized wavelength.

High damage threshold available

V- Coatings are all custom designs, only available on request. Please contact us, to discuss the specifications needed for your application.

CUSTOM COATING

Key Features

- AR Coating
- Reduce reflexion for specific wavelength
- Optimized for application
- High Power Laser Coating for 1064nm available

Applications

- High quality imaging
- Measurement Instruments
- Holography

Technical Specifications

Coating types	V
Wavelength range	Customized
Residual reflectivity ¹	0.4 %
Laser Damage Threshold ²	> 60 J/cm ²

¹ For optimized wavelength

² 50% LIDT S-on-1, 9ns for 1064nm V Coating

