

# Cut Filters For UV & IR

## CutFilter for UV & IR

UV & IR cut filters block troublesome UV/ VIS or NIR light. They are robust, cost-effective and insensitive to angle of incidence. Additional to their filter function they are also a protective window in imaging systems.

Cut filters are available unmounted in sizes from 10 mm to 74 mm diameter and mounted with common thread sizes M 25.5 to M 67. We offer several AR coating options, depending on filter type.

Call us to discuss your OEM and custom requirements.



### Key Features

- Unmounted in sizes 10 mm to 74 mm diameter.
- Mounted with common thread sizes M 25.5 to M 67 available
- AR coated and uncoated versions available
- Pass Wavelength Range:
  - UV cut: > 365 nm +/- 10 nm
  - UV-IR cut: 390 +/-15 nm to 690 +/- 20 nm
  - IR cut: T= 50% @ 750 nm

### Applications

- Scientific Research
- QA
- Landscaping
- Protective Windows
- Solar

### Technical Specifications

Filter type	UV cut IF 010, UV/IR cut UI 515, UV/IR cut IF 486, IR cut Filter IF 489
Surface <sup>1</sup>	5/2 × 0.16
Wave front distortion <sup>1</sup>	13/1 (0.25)
Parallelism	1 arc minute
Diameter tolerance	+0 - 0.3 mm
Thickness	2.0 ± 0.2 mm

<sup>1</sup> Specification according to ISO 10110

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# UV-IR Cut Filter (IF 486)

## IF 486 UV-IR cut Filter

UV-IR cut filters transmit only VIS spectrum and block all troublesome UV and IR light. Transmission range is from 390 to 690 nm. They are robust, cost-effective and sensitive to angle of incidence. Additional to their filter function they are also a protective window in imaging systems.

UV-IR cut filters are available unmounted in sizes from 10 mm to 74 mm diameter and mounted with common thread sizes M 25.5 to M 67.

The filters come with our superior broadband multilayer resistant AR coating MRC.

Call us to discuss your OEM and custom requirements.



### Key Features

- Unmounted 10 mm to 74 mm diameter.
- Mounted with common thread sizes M 25.5 to M 67 available
- MRC coated
- Pass Wavelength Range:  
UV-IR cut: 390 nm +/- 15 nm to 690 nm +/- 20 nm

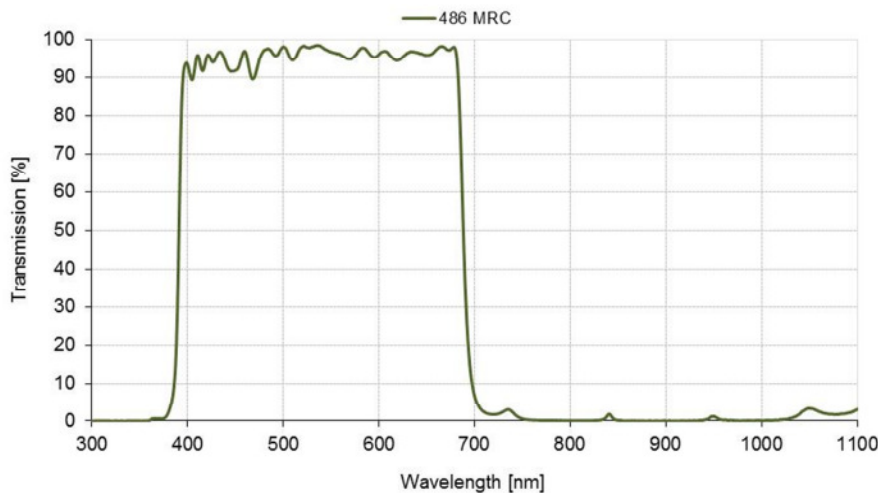
### Applications

- Scientific Research
- QA
- Protective Windows

### Technical Specifications

Filter type	IF 486		
Wavelength range	390 nm - 690 nm	Wave front distortion <sup>1</sup>	10 – 30 mm:13/1 (0.2) 31 – 50 mm:13/1 (0.25) 51 – 74 mm:13/1 (0.35)
Wavelength tolerance	± 10 nm	Parallelism	1 arc minute
Peak transmittance	> 90 %	Diameter	10 - 74 mm
Blocking	< 1 % (300 - 375 & 750 - 1035 nm)	Diameter tolerance	+0 - 0.3 mm
Surface <sup>1</sup>	5/2 × 0.16	Thickness	2.0 ± 0.2 mm

<sup>1</sup> Specification according to ISO 10110



<b>Order Instructions:</b>																										
<b>Mounted filter:</b>	IF																									
<b>Unmounted filter glass:</b>	IFG																									
<b>Type:</b>	010 UV Cut 486 UV-IR Cut UI 515 UV-IR Cut																									
<b>Coating:</b>	489 IR Cut E (broadband coating) - not for IF486																									
<b>Mount:</b>	MRC (multi resistant coating) SH (standard M- thread mounts) SN-1 (only for 30.5mm)																									
<b>Size:</b>	CMT (C-mount) Thread of mount for mounted filters (IF) or Diameter in mm for unmounted glass (IFG)																									
<b>Examples:</b>	<table border="0"> <thead> <tr> <th>IFx</th> <th>type</th> <th>coating</th> <th>mount</th> <th>size</th> </tr> </thead> <tbody> <tr> <td>IF</td> <td>489</td> <td>MRC</td> <td>SN1</td> <td>30.5</td> </tr> <tr> <td>Mounted filter,</td> <td>IR-cut,</td> <td>MRC coated,</td> <td>thread size</td> <td>M30.5</td> </tr> <tr> <td>IFG</td> <td>010</td> <td>E</td> <td></td> <td>50.0</td> </tr> <tr> <td>Unmounted filter, UV-cut</td> <td></td> <td>E coated,</td> <td></td> <td>diameter 50.0 mm</td> </tr> </tbody> </table>	IFx	type	coating	mount	size	IF	489	MRC	SN1	30.5	Mounted filter,	IR-cut,	MRC coated,	thread size	M30.5	IFG	010	E		50.0	Unmounted filter, UV-cut		E coated,		diameter 50.0 mm
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