ODL developed a complete line of heat reflection filters to get a reduction of the thermal component of the light. The degree of reduction spans from 95% (IR < 5%) to 30% (IR = 70%).

The transmission of the visible light is not affected by the filtering action of the dichroic.

Dichroic Colour Filters

Specifically designed by ODL for any colour dichroic application, from show to architectural lighting, indicates a series of bright colour filters characterised by an excellent chromatic and mechanical stability even at extreme ambient conditions. There are more than 100 colours available as standard in dimensions up to 300 mm x 645 mm.

Heat Reflection Filters

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Ultraviolet Filters

Those products are specifically studied and manufactured to manage the UV spectrum. In particular the UV Block filter reduces the ultra-violet component of the emission light to a negligible value with an UV transmission < 0.2% below 380 nm.

The transmission in the visible spectrum is almost total (T > 90).

Cold Light Mirrors

Cold light mirror indicates a series of coatings by a nearly complete transmission of the thermal component of the radiation (IR radiation), the visible spectrum instead is reflected to match the specifications requested by the customer. A value of more than 85% of the transmission of the heat at the back of the reflector is easily possible while maintaining efficiency in reflection of the incident light greater than 95%.

The main fields in which ODL products are applied are entertainment industry, railway and airport signalling, architectural lighting, medical systems, solar cells and industry optics.

The ODL quality management system is in compliance with the SQS ISO 9001:2008.

The sales department and the technical division can support the customer to find solution to specific needs and requirements for any kind of application.
Three families of **colour temperature conversion filters** are available.
- Hot Light Filters: the final temperature of the light source decreases (the blue component of the light is lower, the red one is higher)
- Cold light filters: the final temperature of the light source increases (the blue component of the light is higher, the red one is lower)
- Special filters: used in food lighting to underline some colour characteristics of the light source, are manufactured to exalt some specific aspect of the lit object colour.

**Antireflection Coatings**

The **antireflection coating** improves the quality of the transmitted light by reducing the reflectivity of an uncoated glass ($n=1.52$) from more than 4% (for a substrate with an index reflection $n=1.52$) to less than 0.3% in the range between 440 nm and 650 nm, at $i=0^\circ$. The ODL antireflection coating can also be applied on customer’s glass substrates and also to extended ranges of functionality.

**Dichroic for Solar Applications**

ODL coatings are designed to combine advanced performance, heat resistivity, durability and stability at extreme environmental conditions for all the time of their utilization. The special coatings for the **renewable energy** Concentrated Photovoltaic (CPV) application increase the performance of the equipment and reduce the costs. The Anti Reflection coating, developed for the range 400-1700 nm, improves the transmission of the solar energy collectors with a residual reflection of 1.2% instead of the 4.25 % typical of one single surface of uncoated glass. ODL manufactures also dichroic filters and mirrors to split the solar light in two, three or more spectral ranges offering the maximum efficiency when the multi junction cells are used.

**Gobos**

The **gobos** are the most innovative, easy to use and multifunctional tool to carry out advertising messages, to personalise events and to give special effects to every exhibition space. By using gobos, it is possible to project images, pictures, logo on whatever surface both hard and flexible. They can be used both inside and outside of shopping centres, fair stands and halls. ODL offers a wide catalogue of ready to use gobos. Moreover, by a patented etching process, ODL can design and manufacture any customised image and obtain gobos from pictures, logos, drawings, messages provided by the customer.

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