

DF075

Technical Datasheet





A diffuser can be any translucent material that scatters light, most commonly applied in the form of a panel or cover that is placed directly over a light source. Its main purpose is to diffuse (or "spread out") light in a more uniform manner. It can help reduce the sharpness of shadows or greatly reduce harsh, unwanted glare

Specification Highlights

USEFUL RANGE:

lmm

DIFFUSE LIGHT TRANSMISSION:

72% 3%

THICKNESS: COLOR TEMPERATURE: 6750K

400-1100nm

PARALLEL LIGHT TRANSMISSION:

96%

TOTAL LIGHT TRANSMISSION:

75%

Revised 06/05/2023







HAZE:



Full Specifications

Useful Range: 400-1100nm **Diffuse Light Transmission:** 72%

Thickness: **Parallel Light Transmission:** 3% lmm

Color Temperature: 6750K 96% Haze:

Total Light Transmission: 75%

How to Order

This Item is cut to order and is therefore available in nearly any shape and size. To order, please reference the tables below to generate a part number or provide a custom drawing and send a quote request to support@machinevisiondirect.com

For Circular Parts
DF075-D
DIAMETER IN MM

EXAMPLE PART NUMBERS: DF075-D10.75 10.75mm Diameter: DF075-D20 20mm Diameter: DF075-D32 32mm Diameter:



EXAMPLE PART NUMBERS: DF075-R10.75 10.75mm Square: DF075-R20 20mm Square: DF075-R32 32mm Square:



EXAMPLE PART NUMBERS: DF075-R10.75x20 10.75mm x 20mm Rectangle: DF075-R30x20 30mm x 20mm Rectangle: DF075-R32x24 32mm x 24mm Rectangle:



support@machinevisiondirect.com



CUSTOM CUT TO ORDER



MidOpt is the industry leader in machine vision filters and optical solutions, and custom shape and size requests are our specialty. All MidOpt filters can be precision cut to your exact specifications and system requirements—in high volumes and with short lead times (custom shapes and sizes are typically fabricated with one day to two week lead times). A wide variety of shapes are available, and custom sizing options up to 165mm sq. are possible for most filters. Acrylic filters can be custom cut up to 900mm sq.

ABOUT DIFFUSERS

A diffuser can be any translucent material that scatters light, most commonly applied in the form of a panel or cover that is placed directly over a light source. Its main purpose is to diffuse (or "spread out") light in a more uniform manner. It can help reduce the sharpness of shadows or greatly reduce harsh, unwanted glare. One common application is to eliminate lamp filament or LED "hot spots", which can_at times be very intense. A diffuser is commonly used over LEDD liigmhteinngs itoo dnisstribute light output more evenly over a given area while also affording some protection for the LEDs.

Machine Vision Direct offers both glass and acrylic options. Various thicknesses and specific transmission levels (from 5 – 93%) can be provided. Common diffuser types include ground glass, molded/textured acrylic, thin plastic film, flashed or solid opal glass, molded/textured glass and diffractive diffusers. The latter are generally much more costly but can be used to manipulate LED light output to provide a more precise spatial configuration and intensity profile, all while keeping light loss due to back-scattering to a minimum.