

DICHROIC FILTER

Dichroic filters are optically coated with dielectric thin films vacuum-deposited onto glass substrate. They transmit light of certain color and reflect the complementary color. Kupo assures the quality filters and the absolute spectral stability that expresses consistent shades and perfect images. No matter applied indoors or outdoors, Kupo dichroic filters are excellently resistant to environmental degradation. We have a comprehensive selection of colors that provides the flexibility for you to choose the suitable ones for your projects.

Features :

- True-to-life colors
- High transmission of desired light
- Excellent heat resistance
- Low maintenance & cost-saving.

Color Tolerance :

Within +/-5nm of designed central wavelength

Technical Specification :

Humidity. Adhesion. Abrasion. Resistance MIL-M-13508C

Applications :

- Architectural lighting
- Entertainment and stage lighting
- Precise use for electronics and industrial applications

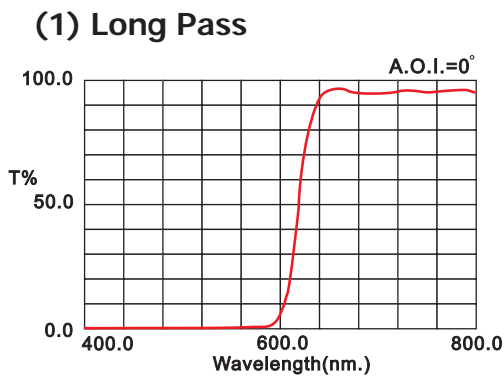
Maximum Operation Temperature

- Soda-lime Material: 150 degree C
- Tempered Material: 250 degree C
- Borofloat Material: 450 degree C

Available Size

- Square: 7-300mm
- Round:10-425mm

Note : Printed colors for reference only, not definitely identical to real dichroic colors.



Y10001 Spring Yellow (Y0200) LEE#765	Y1002 Medium Yellow	Y10103 Yellow
Y76704 Canary (Y89312) ROSCO#312 LEE#101	O10405 Amber	O01506 Straw
O17907 Deep Amber	O15808 Light Orange	O77809 Golden Amber (O5921) ROSCO#21 LEE#021
O2210 Gold Orange	O1911 Sunset Orange	O16412 Orange (O1823) ROSCO#19 LEE#019
R2613 Fire (O0819) LEE#182	R2714 Red (R9926) ROSCO#26 LEE#026	R15 Ruby Red
R16 Blood Red	R17 Dark Red (R0027) ROSCO#27 LEE#027	R2918 Plasa Red

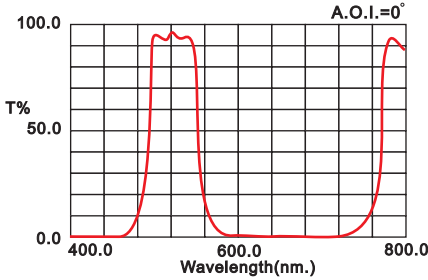
Installation :

To achieve a better effect, it is suggested to installing the coated side of filter toward the light source.

The filter should be set at the angle of 90 degrees to the light path to avoid undesirable color shift.

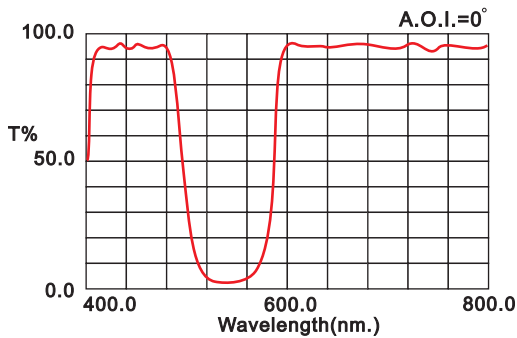
Moreover, for the best color performance, the filters are not recommended to be placed at an extreme angle greater than 40 degrees in the lighting fixtures.

(2) Band Pass



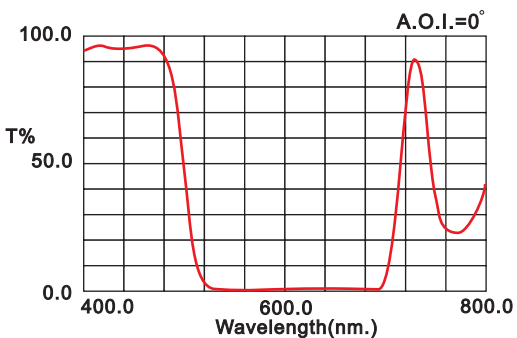
G32701 Forest Green	G32502 Mallard Green	G32503 Beryl Green	G73504 Velvet Green	G13905 Green (G28389)	G73606 Dark Green
G73607 Jelly Green	G73608 Grass Green	G13909 Primary Green	G2810 Light Green (G01)	G73611 Oasis Green	G2812 Fern Green
G73813 Pale Green	G73814 Lime Green	G74015 Yellow Green	G8916 Moss Green	G9017 Jade	G72918 Scuba Blue

(3) Notch



M5601 Magenta (M56339)	M79502 Magical Magenta	M79303 Vanity Fair	M4904 Plum
ROSCO#339 LEE#128			
M4905 Deep Magenta	M79506 Rose Pink	P12607 Mauve	M79508 Rose
P79909 Special Lavender	P12610 Light Purple	P79711 Purple	P79712 Deep Purple
M12613 Fantasy Magenta	M11114 Bright Pink	M32815 Pink (M63336)	M79516 Dark Rose
		ROSCO#336 LEE#002	

(4) Short Pass



V7101 Blue-Purple (V6700)	V79902 Special Blue	B18103 Dark Blue (B01)	B70704 Ultimate Violet
		ROSCO#59	
B71305 Blue (B4700)	B19506 Zenith Blue	B8507 Bright Blue (B2879)	B71408 Elysian Blue
ROSCO#56 LEE#715		ROSCO#79 LEE#079	
B6809 Sky Blue	B14110 Shiny Blue	B0611 Brilliant Blue (B06669)	B11812 Light Blue
		ROSCO#69 LEE#183	
C35413 Steel Blue	C11514 Peacock Blue	C11715 Italian Blue (C45370)	C13116 Marine Blue
		ROSCO#370	

**Reflective type of dichroic colors available :
Red, Orange, Yellow, Green, Blue, Purple, Pink**

Custom Design Available by Request

Kupo offers the standard dichroic filter for stage application with standard frame holder for PAR64, 56, 20, 16, MR16 lamp, S4, S4 PAR. Standard color (code): RED (R9926), YELLOW (Y89312), GREEN (G28389), MAGENTA (M56339).

Hot Mirror for Heat Reflection

High infrared energy reflection
 Block the near UV energy
 Excellent visible transmission
 Applications for museum and architectural professions

Cold Mirror for Heat Transmission

High infrared transmission
 High visible light reflection

UV Transmission

UV energy transmission
 Visible light reflection

UV Blocking Filter

High UV energy reflection
 High visible transmission
 Without damage to display objects when the light is increased
 Perfect on lighting and scientific applications due to its minimal color shifting



KP-DF50
 DIA. 50mm/1.3mm dichroic filter with holder for MR16 lamp

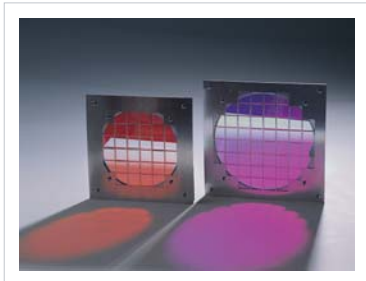


DFS-B Dichroic Sample Book

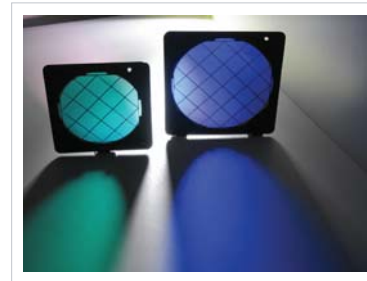
- Characteristics:
- * 68 standard dichroic colors
 - * 6 kinds of colors coorection filters
 - * 7 reflective color filters
 - * 4 kinds of patterned glass
 - * Color Comparison List with Kupo, Rosco and Lee colors
 - * Substrate: Borofloat



KP-DF68
 DIA. 68mm dichroic filter with plastic color frame for PAR20
 RED, GREEN, YELLOW, BLUE, PURPLE
KP-DF59
 DIA. 59mm dichroic filter with plastic color frame for PAR16
 RED, GREEN, YELLOW, BLUE, PURPLE



KP-DF168
 DIA. 168mm dichroic filter for PAR56 fixture with safety color frame (with mesh)
KP-DF210
 DIA. 210mm dichroic filter for PAR64 fixture with safety color frame (with mesh)



KP-DF130
 DIA. 130mm dichroic filter for S4 with safety color frame (with mesh)
KP-DF172
 DIA. 172mm dichroic filter for S4 PAR with safety color frame (with mesh)

Color Correction Series

KUPO Color Correction Filters are used in applications where it is desirable to change color temperature of various light sources. These subtle and less saturated tones are ideal for interior and exterior architectural lighting schemes.

Daylight Conversion

CTO-001
 Full C.T.O. Converts 5500K Daylight to 2800K

CTO-002
 Half C.T.O. Converts 5500K Daylight to 3800K

CTO-003
 Quarter C.T.O. Converts 5500K Daylight to 4500K

Tungsten Conversion

CTB-001
 Full C.T.B. Converts 3200K Sources to normal daylight, 5500K

CTB-002
 Half C.T.B. Boosts 3200K, Sources to 4200K

CTB-003
 Quarter C.T.B. Boosts 3200K, Sources to 3600K

HONEYCOMB

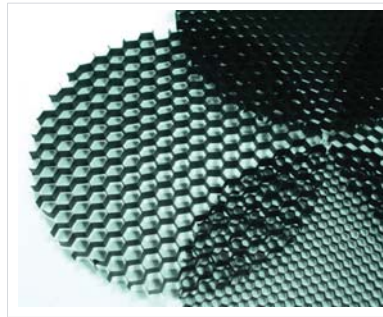
Honeycomb is made up of the aluminum foil with a hexagon shape. It can be a shield to prevent the dazzle of illuminator.

Feature

Dazzle Prevention
Light Weight
Control the Light Path

Quality Approval

RoHS certification
The consistency of painting coating
No painting fading under UV illumination
With 250 degree C heat resistance



Specification

Material: Aluminum Foil
Color: Black, Silver

Available Size

Square: 35mm~300mm
Round: 35mm~300mm

Available Thickness (Height)

3mm~20mm (or thicker)

Aperture Size

(1) 1/8": (available thickness: 3mm, 5mm)
(2) 3/16": (available thickness: 5mm, 6mm)
(3) 1/4": (available thickness: 6mm)

IG-CDM150 Image Gun CDM 150W

IMAGE GUN is the ideal product when it comes to provide logo projection for architecture or commercial use. The IP 65 design enables it feasible for both indoors and outdoors venues. Die-cast aluminum finish provides sturdy body, while compact dimension makes it low-key but standing out in performance with CDM 150W metal halide lamp. (Philips CDM-SA/T 150 lamp is recommended) Three built-in lenses give logo projection maximum flexibility in terms of image size and projection distance. The image rotary speed can be controlled by an adjustable knob inside easily. IMAGE GUN helps to show your advertising in the good way.

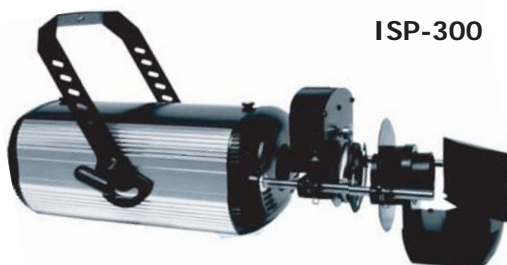
Features:

- * Lamp: PHILIPS CDM-SA/T 150 (Optional)
- * Power supply: AC220V/50Hz or AC 120V/60Hz
- * Power consumption: 200W
- * IP65 Aluminum Die-Cast Finish / Outdoors & Indoors is feasible
- * Built-in adjustable knob for image rotary speed control
- * Dimensions(LxWxH): 465x375x400mm
- * N.W.: 10kgs
- * G.W.: 12kgs

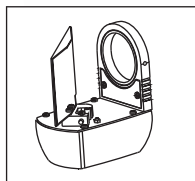


IMAGE SPOT

In discotheques, shop-fitting, fairs or on fashion display, the image spot can project your gobos and logos fairly.

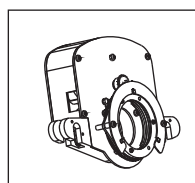


ISP-300



ISP-1

Adjustable pivoting mirror build-in on/off switch (sold separately)



ISP-2

Rotating/ Static gobo holder build-in on/off switch (sold separately)

Die-Casting and extruded aluminum finish

Standard fixture comes with a static gobo

Gobo DIA. 51.5mm/ Image DIA. 38mm

Twin lens condenser and spherical mirror

Two electrified guides carry a 24V supply and can accommodate a lens and three housing for gobos and colors

Micro switch cuts off electricity supply when cover is opened

Power supply: 110V/ 60Hz, 230V/ 50Hz

Lamp type: HTI 300W discharge lamp (included)

Dimension: 554.5 x 240 x 290 mm

Weight: 8.5 KG

Rotating Gobo: dichroic/ photographic (DIA. 51.88mm)

Static Gobo: metal (DIA. 62mm)

Rotating Gobo: metal (DIA. 66mm)