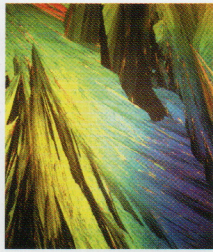
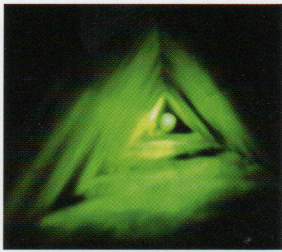


K r a n g e

EFFECTS PROJECTORS



OPTIKINETICS

K4

effects projector

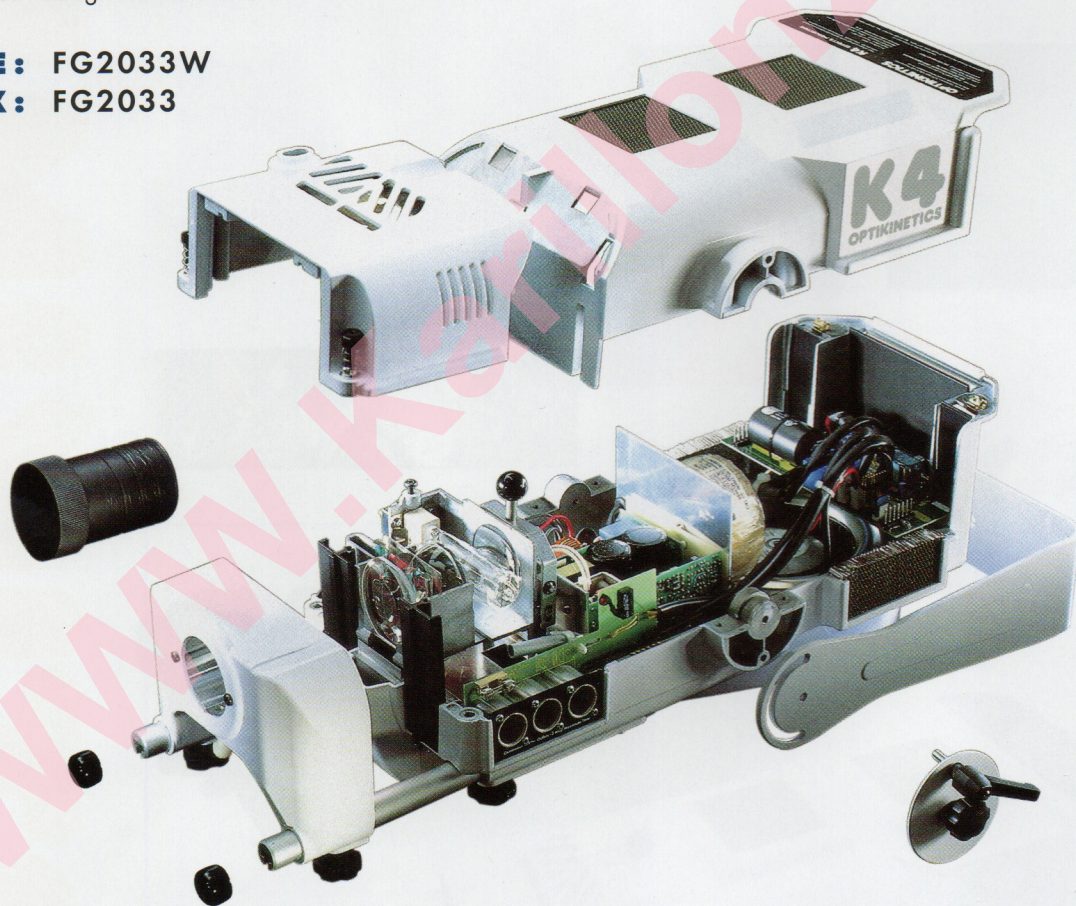
The K4 is perfect for projection of clear images over long distances or use in high ambient light conditions. Top of the Optikinetics K range of effects projectors, the K4 is compact, lightweight and cool for a projector of its power. This makes K4 ideal for in-store promotions, shopping malls, hotel lobbies, leisure facilities, exhibitions, entertainment, theatre, television and many other applications. K4 uses the full range of Optikinetics effects and effects accessories (see the Optikinetics Effects Catalogue).

The K4 is the professional lighting designer's choice. Its clean lines and stylish black or white case design can make it a feature of the interior concept or blend into the environment created by the designer.

Weighing from just over 12kg, much smaller than its predecessor, K4 is a deceptively powerful effects projector for its compact size. A specially designed ballast enables the K4 to be plugged in anywhere in the world and powers a 750 hour MSR575/2 metal halide arc lamp with 4000 lumen light output at lens. All this, combined with an efficient forced air cooling system, gives designers new solutions to demanding challenges presented by exciting new market opportunities throughout the world.

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Overall Size

655mm long x 315mm wide x 210mm high (400mm with bracket)
(Packed Size 800mm x 346mm x 246mm)

Weight

From 12.3kg (Packed Weight 14 kg)

Standard Lens

Three Element 85mm f2.8 52.5mm Helical Groove Focussing

Mains Voltage

100 - 120V~ or 220 - 240V~ 50/60Hz (Automatic Voltage Sensing)

Power Consumption

880 watts max. (8A @ 100 - 120V~ or 4A @ 220 - 240V~)

Lamp Type

MSR575/2 or direct equivalent

Nominal Lamp Life

750 hours

Total Lumen Output

Approximately 4000 (with new lamp)

Colour Temperature

5600 K

Cooling

Centrifugal fan, forced air duct and plenum system



K2+ *effects* projector

Technological advances in lamp design have produced the MSD250 lamp which has 30% more light output than the MSD200, used in the K2, with the same 2000 hour life. Optikinetics have taken full advantage of this and incorporated the new lamp in the K2 housing without sacrificing any of the renowned optical resolution to create a new projector. The K2+ supersedes the K2.

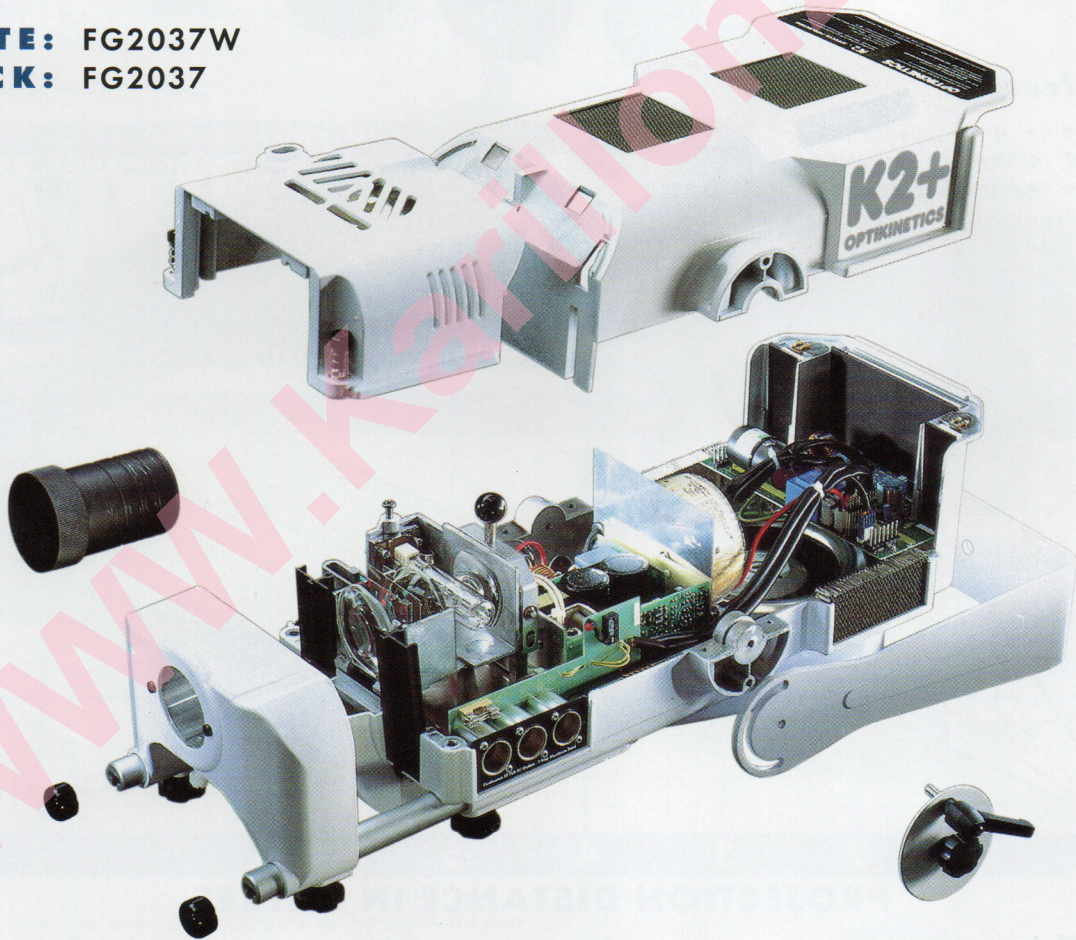
The K2+ is designed for continuous use in a wide variety of interior applications including exhibitions, retail, leisure, promotions and entertainment.

The K2+ has a 2600 lumen light output at lens and colour temperature closer to daylight to ensure that true colours are retained when projected. The computer optimised optical system and individual lamp adjustment produce a uniform field of illumination for edge to edge clarity of the projected image.

The K2+ uses the full range of Optikinetics effects and effects accessories (see the Optikinetics Effects Catalogue).

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Overall Size

655mm long x 315mm wide x 210mm high (400mm with bracket)
(Packed Size 800mm x 346mm x 246mm)

Weight

From 12.3kg (Packed Weight 14 kg)

Standard Lens

Three Element 85mm f2.8 52.5mm Helical Groove Focussing

Mains Voltage

100 - 120V~ or 220 - 240V~ 50/60Hz (Automatic Voltage Sensing)

Power Consumption

550 watts max. (5A @ 100 - 120V~ or 2.5A @ 220 - 240V~)

Lamp Type

MSD250 or direct equivalent

Nominal Lamp Life

2000 hours

Total Lumen Output

Approximately 2600 (with new lamp)

Colour Temperature

6500 K

Cooling

Centrifugal fan, forced air duct and plenum system



K2+ & K4

LENSES

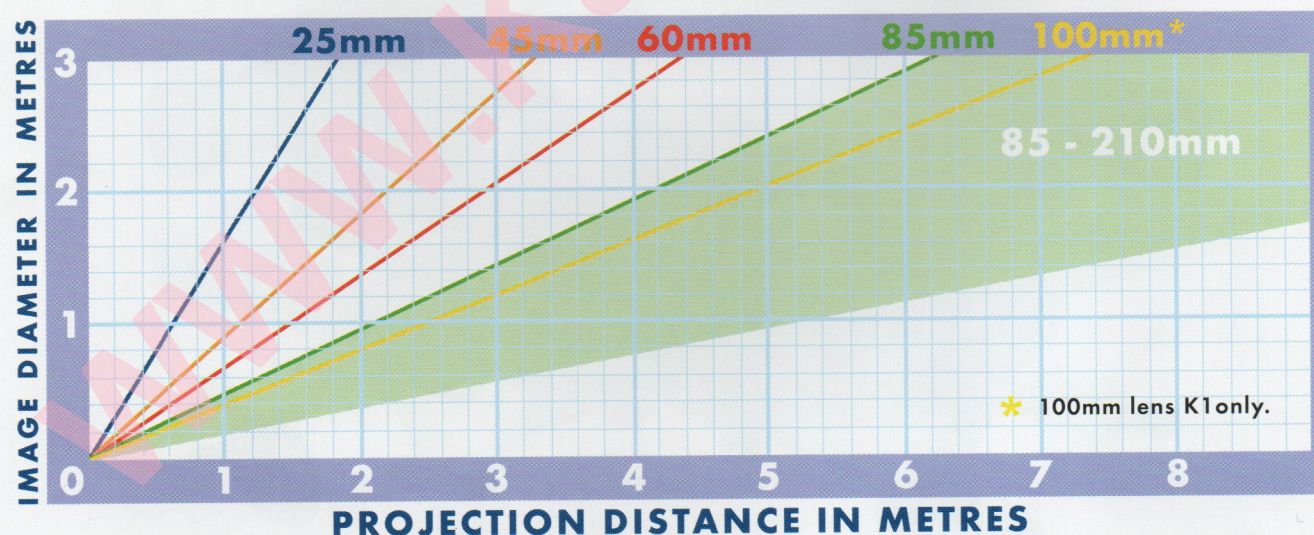
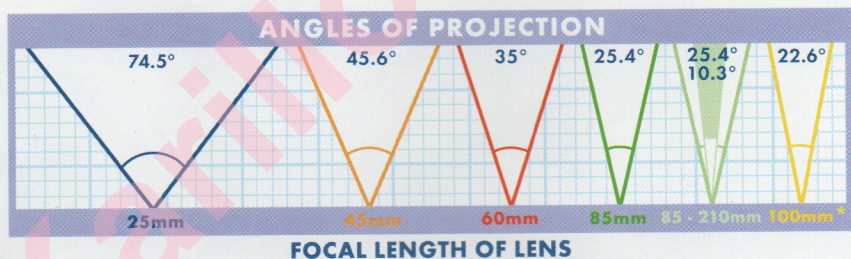
The K2+ and K4 Effects Projectors use metal 52.5mm diameter helical groove focussing lenses. They are fitted with a three element 85mm lens as standard. To achieve a specific image size over a set projection distance a different focal length lens may be fitted. The full range of lenses available from Optikinetics are:

FG6200	85 - 210mm Zoom
FG6205	85mm
FG6190	60mm
FG6180	45mm
FG6175	25mm



lens selection

The chart below gives approximate image sizes relative to projection distances. The lines indicate image size at varying distances using different lenses. The shaded area indicates the range of image sizes possible when using the Optikinetics 85 - 210mm Zoom Lens.



Calculations

These simple equations enable the following values to be calculated.

1 $IMAGE\ SIZE = \frac{PROJECTION\ DISTANCE}{FOCAL\ LENGTH} \times OBJECT\ SIZE$

3 $FOCAL\ LENGTH = \frac{PROJECTION\ DISTANCE}{IMAGE\ SIZE} \times OBJECT\ SIZE$

2 $PROJECTION\ DISTANCE = \frac{IMAGE\ SIZE}{OBJECT\ SIZE} \times FOCAL\ LENGTH$

4 $OBJECT\ SIZE = \frac{IMAGE\ SIZE \times FOCAL\ LENGTH}{PROJECTION\ DISTANCE}$

* 40mm diameter is the OBJECT SIZE of most Standard Effects in the Optikinetics range. Custom Images have a maximum OBJECT SIZE of 35mm.

K2+ & K4

OPTIONS

Plug-in Modular Options are easily fitted into the K2+ and K4 Effects Projectors to add functionality and versatility.

SHUTTER/DIMMING FG2041

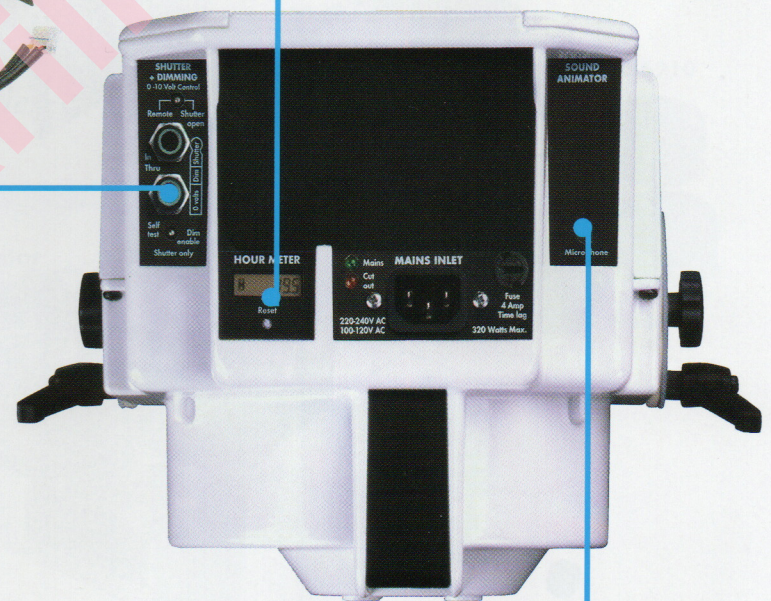
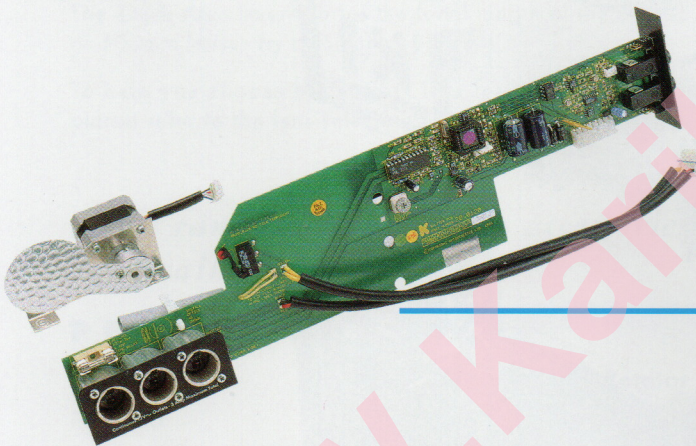
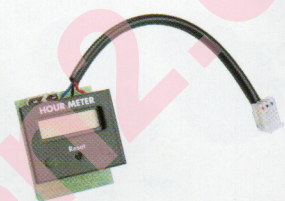
A mechanical shutter provides a local or remote blackout facility. It can also operate at speeds up to 8 cycles per second giving a 'strobe-like' effect.

Lamp dimming from 100% down to 40% can be achieved via the electronic Automatic Voltage Sensing ballast.

These functions may be switched locally or controlled remotely by a 0 - 10V connection to the stereo jack sockets provided.

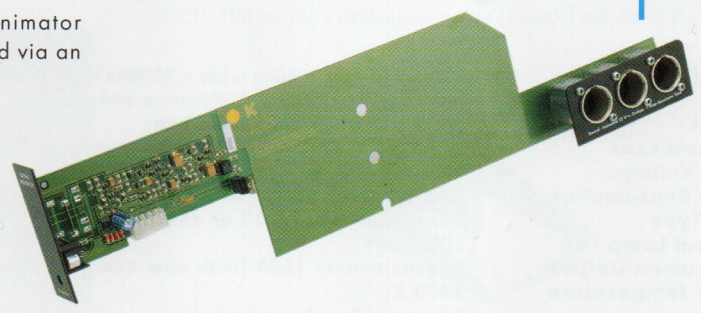
HOUR METER FG2044

The Hour Meter connects to the lamp circuit monitoring the actual 'lamp on' time.



SOUND ANIMATOR FG2040

Provides three pulsed 12V~ outputs to power Animator accessories or the Solar System in response to sound via an integral microphone.



K1 effects projector

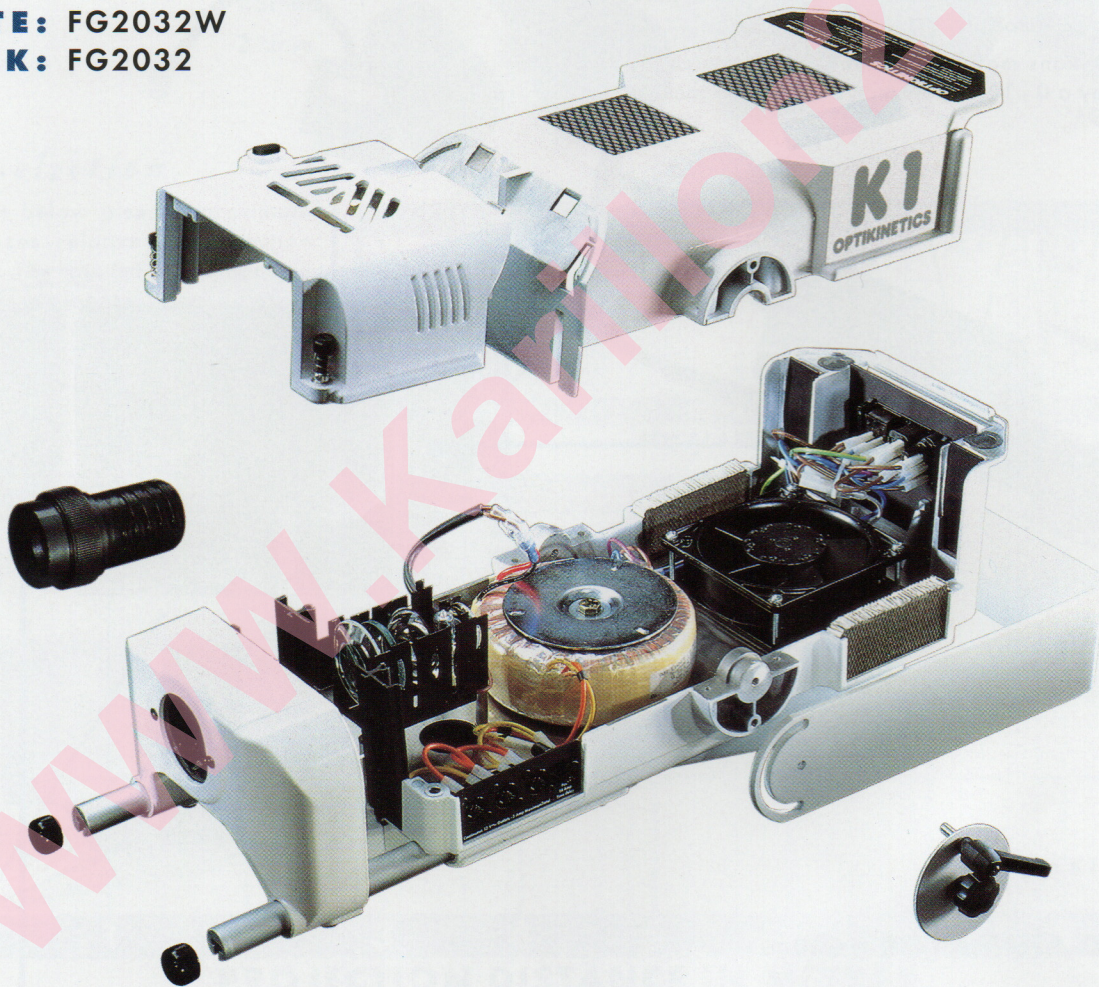
Designed for use in a wide range of market applications in low ambient light, the K1 will always project the right image. Entertainment, leisure and display are just some of the uses for this advanced projector.

The entry model in the K range of effects projectors, K1 uses the same front of lens accessories as the Solar 250 and all other Optikinetics effects accessories. The 300 hour M33 250W quartz halogen lamp with 1200 lumens output at lens is fitted as standard. If required the K1 can be fitted with the 2000 hour Iwasaki Eye lamp which has 800 lumens light output at lens.

The operating voltage of K1 can be easily adjusted for use in most countries. Its unique and modern design makes K1 the most stylish and versatile effects projector in its class.

WHITE: FG2032W

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Overall Size

655mm long x 315mm wide x 210mm high (400mm with bracket)
(Packed Size 800mm x 346mm x 246mm)

Weight

11.7kg (Packed Weight 13.4 kg)

Standard Lens

Three Element 85mm f2.8 42.5mm Helical Groove Focussing

Mains Voltage

110 - 120V~ or 220 - 240V~ 50/60Hz

Power Consumption

350 watts max. (3.15A @ 100 - 120V~ or 1.6A @ 220 - 240V~)

Lamp Type

Osram Xenophot M33 or direct equivalent

Nominal Lamp Life

300 hours

Total Lumen Output

Approximately 1200 (with new Xenophot lamp)

Colour Temperature

3300 K

Cooling

Tubeaxial fan, forced air duct system



K1

effects projector

LENSES

The K1 Effects Projector uses 42.5mm diameter helical groove focussing lenses. It is fitted with a three element 85mm focal length lens as standard. To achieve a specific image size over a set projection distance a different lens may be fitted. The full range of K1 lenses available from Optikinetics are:

FG6170	100mm
FG6160	85mm
FG6150	60mm
FG6110	Kaleidoscope
FG6120	Zoom Attachment

The Kaleidoscope Lens replaces the focussing lens and repeats a segment of any chosen effect as a six sided image. The Zoom Attachment varies the focal length of the 60, 85 or 100mm lenses by a factor of 0.8 to 1.3.

To help you choose the correct lens for your application please refer to the lens selection information on page 5.



a full range of front of lens accessories are available for the K1

PRISMS

FG6070	Flop Prism Rotator
FG6080	Rotator Prisms (x4)
FG6210	2 Facet Clip-on Prism
FG6220	3 Facet Clip-on Prism
FG6230	4 Facet Clip-on Prism

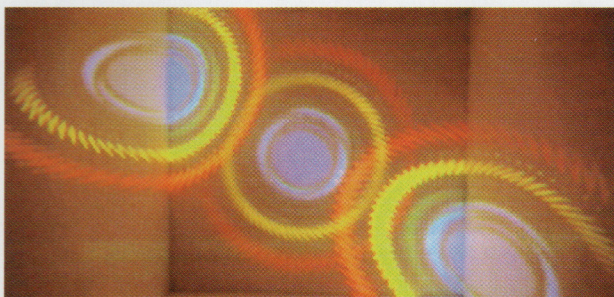
Flop Prism Rotators and Clip-on Prisms fit onto the lens of the projector. Rotator Prisms fit into Flop Prism Rotators.



PANORAMIC ROTATOR FG6060

Fits onto lens of the projector. Set position is adjustable through 360°.

Rotating prism refracts projected light into 3 images. Orbits and distorts 2 images retaining integrity of central image.



DEFLECTOR MIRROR FG6310

Fits onto the lens of the projector. Set position is adjustable through 360°. The mirror's deflection angle is easily adjusted by hand.



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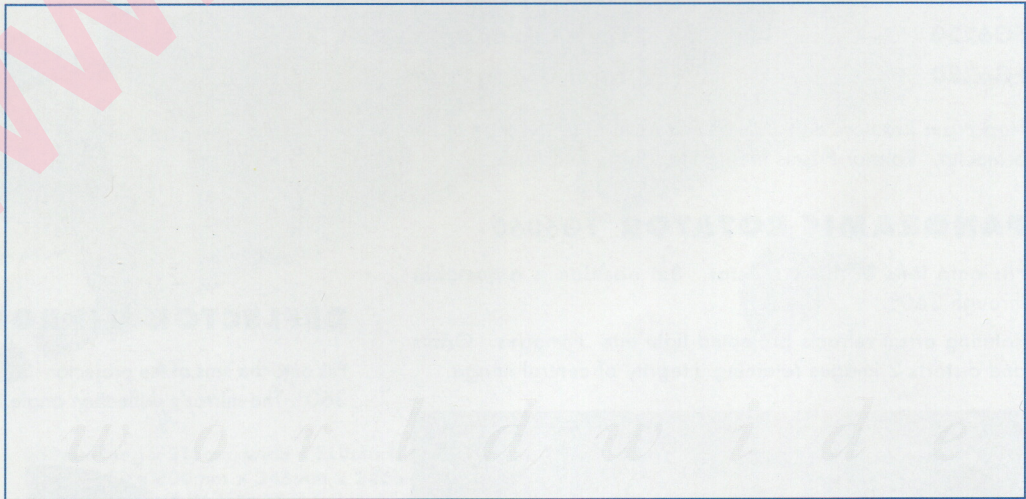
entertainment



exhibitions



retail



w o r l d w i d e

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