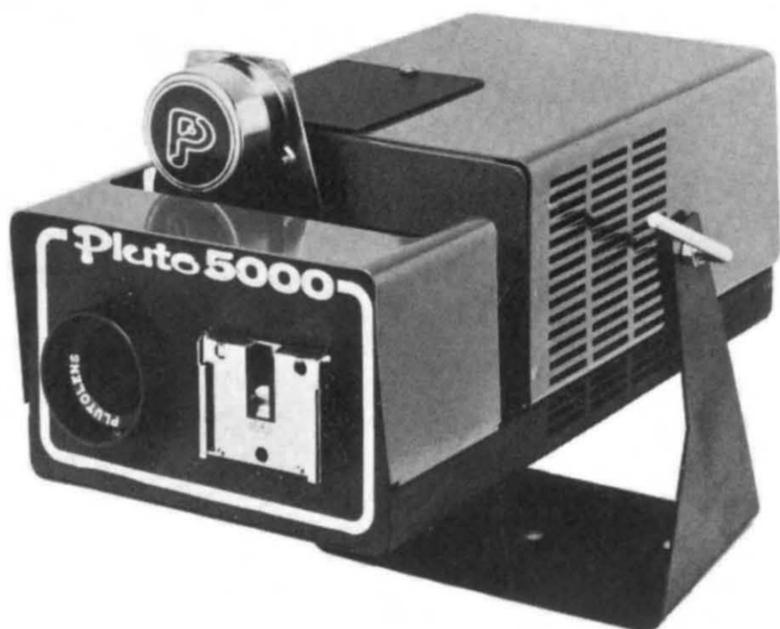


SPECIAL EFFECTS
LIGHTING AND
ACCESSORIES

PLUTO

PLUTO

Pluto 5000 S Intachange



Most powerful in the range, it is of all metal construction, designed to take all the intachange effects accessories on the market, including the new front of lens system and the third gate break up glasses. The constant run transformer and the fan cooling give a high degree of reliability. It also has an overrun switch for the bulb (nominal life 2000 hours normal run) and the 12V. ~ intachange carriage is isolated and earthed for safety.

The standard 85mm lens is fully interchangeable with the other Pluto focus and special effects lenses making this projector one of the most versatile on the market. Ideal for clubs, halls, discos and stores or where there is a need for powerful light.

Pluto 5000 — identical to the Pluto 5000 S but supplied without the third gate for break up glasses.

TECHNICAL SPECIFICATION

- Power input: 240V. ~ 50Hz. 220V. 50Hz or 110/120V. 60Hz. to order.
- Constant run transformer.
- Lamp: M36 only. 24V. 250W Q1.
- Lamp overrun switching facility. 2000 hours lamp life normal. 700 hours approx. on overrun.
- Intachange electrical supply: 12V. ~ isolated and earthed.
- 12V. outlet for front of lens accessories.
- 12V. supply protected by easily accessible fuse.
- Fan cooled.
- Takes all Intachange accessories and full range of lenses.
- Standard lens: 85mm x 42.5mm
- Metal construction.
- Versatile stand/fixing bracket. Can be fitted to track.
- Easily removable optics for cleaning.
- Size without attachments approx. 356 x 216 x 203mm with stand.
- Third effect gate to take 2" breakup glasses.

Pluto 500 Intachange



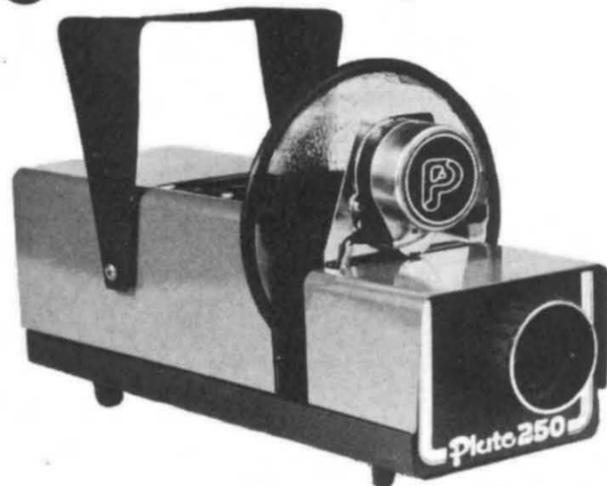
A modern intachange, all metal portable projector, designed to give the widest range of uses in discos, reception areas, display sites and in the home. The P500 can be used as a free standing, wall, ceiling or track mounted projector. The 100W. Q1. light source uses a 12V. long life lamp, with an overrun facility. The standard 85mm lens is fully interchangeable with the Pluto range of focus and special effects lenses providing, with the other Pluto intachange accessories, and now including the front of lens system, the ability to mount complete or supplementary programmes with the one machine.

The P500 is fan cooled and gives long lamp life (up to 2000 hours on normal run). Both the middle gate and front of lens effect motor carriages are 12V. A.C. and isolated and earthed, while the optics are easily removed for cleaning and lamp replacement.

TECHNICAL SPECIFICATION

- Power input: 240V. ~ 50Hz. 220V. 50Hz or 110/120V. 60Hz to order.
- Constant run transformer.
- Lamp: M28 12V. 100W Q1.
- Lamp overrun switching facility (2000 hours lamp life normal, 700 hours approx. on overrun).
- Intachange electrical supply: 12V. ~ isolated and earthed.
- 12V. outlet for front of lens accessories.
- 12V. supply protected by easily accessible fuse.
- Fan cooled.
- Takes all Intachange accessories and full range of lenses.
- Standard lens: 85mm x 42.5mm.
- Metal construction.
- Universal stand/fixing bracket. Can be fitted to track.
- Easily removable optics for cleaning.
- Size without attachments approx. 330 x 216 x 191mm with stand.

Pluto 250 Intachange



The latest in the extensive range of special effects projection equipment from Pluto — the P250 is a 50W. convection cooled Q.I. projector, which comes complete with a long life bulb.

The long sleek lines of this projector have been achieved by stretching the styling of the very popular P150. Being intachange it accepts all Pluto ingate effects and complements the range of Pluto projectors.

TECHNICAL SPECIFICATION

- Power input: 220/240V. ~ 50Hz. 110/120V. 60Hz. to order.
- Constant run transformer.
- Lamp: M32 only. 12V. 50W. Q1.
- Long life bulb, 2000 hours nominal.
- Intachange electrical supply:
- Takes all intachange accessories and full range of lenses.
- Standard lens: 60mm x 42.5mm.
- Metal construction.
- Suitable for fitting to track.
- Easily removable optics for cleaning.
- Size approx. 355mm x 165mm x 110mm.

Pluto 150 & Pluto 140



A purpose built projector ideal for domestic use. A must for parties, the effects produced can add an entirely new dimension to your home. Supplied with a standard 60mm lens which is fully interchangeable with all Pluto focus and special effects lenses. The Pluto 150 is lightweight, portable and silent running. All interchangeable accessories now available can be used in this very versatile low price machine. A definite mood setter, the moving images projected on wall or ceiling are ideal for relaxing to or listening to music.

This low priced projector differs from the P150 in that it has a fixed motor plate and not having the interchangeable facility will only project 6" wheels. In all other respects it remains an identical projector.

TECHNICAL SPECIFICATION P150

- Power input: 220/240V. ~ 50Hz. 110/120V. 60Hz. to order.
- Lamp: A1/167 150W.
- Interchange electrical supply: 12V. A.C. isolated and earthed.
- Takes interchangeable accessories and full range of lenses.
- Standard lens: 60mm x 42.5mm.
- Metal construction.
- Easy Lamp access.
- Supplied complete with motor plate and effect.
- Size without attachments approx. 275 x 165 x 110mm.

TECHNICAL SPECIFICATION P140

- Power input: 220/240V. ~ 50Hz. 110/120V. 60Hz. to order.
- Lamp: A1/167 150W.
- Standard lens: 60mm x 42.5mm.
- Metal construction.
- Easy lamp access.
- Supplied complete with 6" wheel effect.
- Size without attachments approx. 275 x 165 x 110mm.

Pluto Multimatic

SOUND TO LIGHT/
SEQUENCER



This unique electronic lighting controller offers numerous functions hitherto not available on a single portable unit. The controller basically comprises a three channel sound to light modulator with additional sound or auto sequencing. In the Sound to Light mode, override buttons enable each channel to be switched to a permanently ON or OFF state, whilst the reverse button permits the exchange of BASS and TREBLE channels respectively.

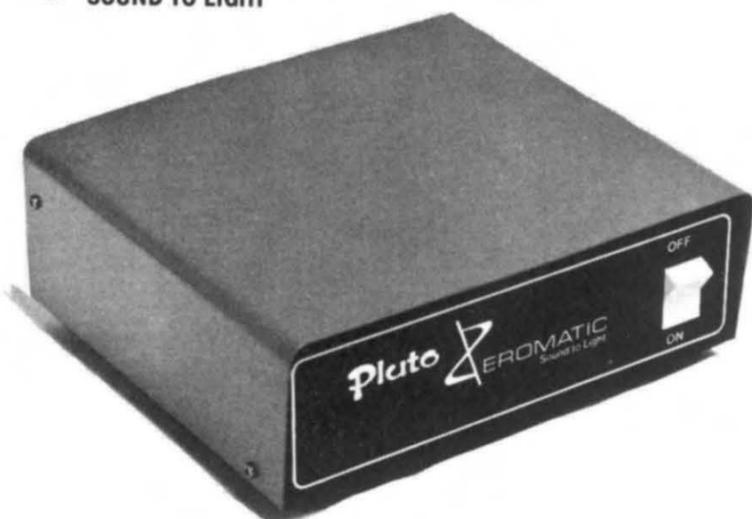
A novel feature of this unit is the AUTO-BACKGROUND control which automatically switches all 3 channels on at 1/2 power in the absence of a sound input. A suitable delay is incorporated to minimise spurious operation so that the D.J. can always rely on a predictable performance to avoid sustained periods of total blackout. Like the Zeromatic, the Multimatic incorporates A.G.C. circuitry to automatically cover a wide range of audio input levels without the need for adjustment. The Multimatic also doubles as a 3 channel sequencer having 14 different programmes, with the options of constant background lighting to provide pleasing ripple effects, or 1/2 power condition for subdued lighting effects. Chase speed can be varied over a wide range, and also modulated to music in the SOUND CHASE mode.

TECHNICAL SPECIFICATION

- Power input: 220-240V. ~ 50Hz. 3,000W max.
- OUTPUT: 3 x 1,000W of mains voltage tungsten lamps.
- Zero Voltage Switching.
- Double Pole mains ON/OFF switch.
- 4 Panel Indicators.
- 8 Push buttons and rotary control with switch.
- Sound to Light mode with individual channel override in ON or OFF position.
- REVERSE button to transpose bass and treble channels.
- SOUND CHASE with variable chase speed.
- AUTO CHASE with variable speed control featuring a FREEZE position.
- 4 Push buttons for sequence selection to give 14 different programmes.
- Push button to select sound to light or chase.
- Push button to select sound or auto chase.
- 1/2 power button to reduce lamp intensity for all modes of operation.
- Isolated audio input via 1/4" dia. stereo jack socket.
- Input sensitivity: 30mW — 1,000W across 4 ohms.
- Input impedance: > 18k ohms.
- Lamp load connections via dual Bulgin 8-pin sockets type P552.
- Triacs protected by high speed fuses.

Pluto Zeromatic

SOUND TO LIGHT



A competitively priced three channel sound to light control unit capable of switching 1,000 watts per channel. Fully automatic, this free standing compact unit does not require any adjustment during use, and since it is 'zero voltage switched' it does not generate annoying radio frequency interference. With its automatic gain control and lively performance the Zeromatic represents excellent value.

TECHNICAL SPECIFICATION

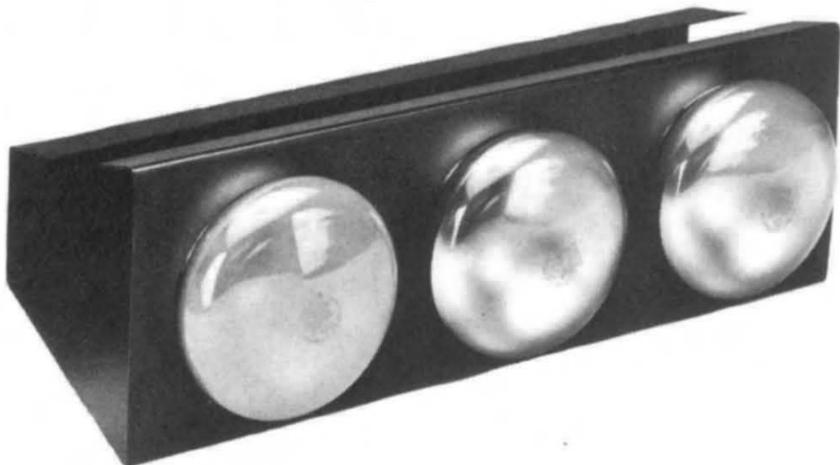
- Zero voltage switching.
- Power input: — 220-240V ~ 50Hz, 3,000W Max.
- Output: — 3 x 1000W of mains voltage tungsten lamps.
- Triacs protected by high speed fuses.
- Audio input completely isolated by means of a stereo jack socket and dual loud speaker DIN sockets.
- Input sensitivity: — 30mW-1,000W across 4 ohms.
- Lamp load connections effected through Bulgin 8 way plug type P551.
- Mains on/off switch.
- All metal case, external size 202 x 177 x 65mm standing on P.V.C. feet 10mm high.

Pluto Trimatic

SOUND TO LIGHT



Pluto Trilight



An accessory to the Pluto range of sound to light control units. This mains voltage light fitting is free standing and comes complete with red, green and blue tungsten reflector lamps. The three bulb holders are wired into two metres of cable and an eight pin Bulgin plug is supplied. The Pluto Sound to Light Trilight is compatible with most other lamp controllers. It has keyholes in the back for wall mounting, and when used free standing and stacked vertically, can be used in semi-circular banks to great effect.

TECHNICAL SPECIFICATION

- Supplied with 3 x E.S.75W. Tungsten reflector bulbs.
- 8 pin Bulgin plug type P551 supplied for cable connection to power.
- Overall size including projections from lamp holders and bulbs. 353mm x 180mm x 120mm.

Tutor Intachange Converter

A superbly simple method for using this popular 250W. QI. projector as an intachange machine.

There is no need to modify the machine in any way, just slide the nose cone off the bars, slide on the intachange carriage and replace the nose cone. The carriage has stops built into it to ensure correct placing in the machine and adequate cooling of the effects. The carriage is fused for the protection of the machine. All that is left to do is plug the lead into the back of the projector. It is now fully converted and will take all intachange accessories: — 3" cassettes; 6" Wheels; The Polarizer and colour flash Set; Splode and Auto Changer.

Autochanger



The Pluto Trimatic is a self-contained three channel sound to light which comes complete with 3 x coloured 60W bulbs. Designed primarily for the mobile disco and domestic market this compact easy to use plug in unit comprises sound to light electronics in the same case as the lamps.

TECHNICAL SPECIFICATION

- Power input: 220-240V. 50Hz. 360W. Max.
- Output: 3 x 120W. mains voltage tungsten lamps.
- Supplied with 3 x 60W. E.S. coloured spot lamps.
- Will accept all standard amplifier outputs from 3 to 30 ohms.
- Mains on-off switch.,
- Manual sensitivity control.
- Audio input fitted with D.I.N. Plug.
- Audio output fitted with D.I.N. Socket.
- All metal construction case, external size approx 370mm x 200mm x 100mm including projections, and standing on rubber feet 6mm high.

S.T.L Junction Box



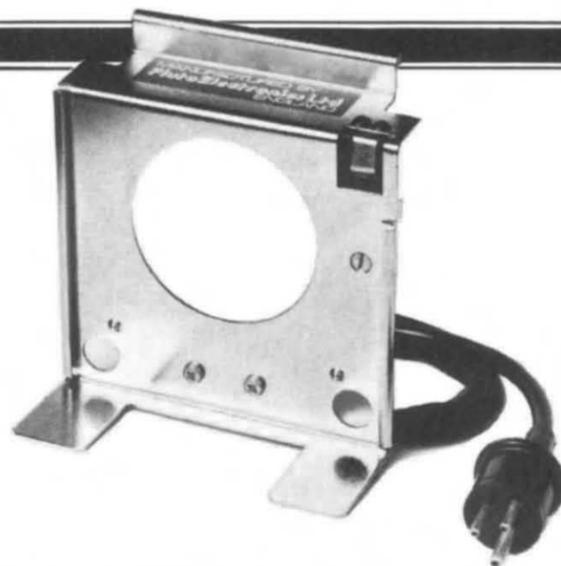
An accessory, the Pluto S.T.L. Junction Box facilitates ease of connection between a controller and banks of lamps. The box has 7 x 8 way sockets in the top positioned in such a way that all leads approach from the same direction. One socket is used for power in from the controller and the other six can be used for power out to lamps.

TECHNICAL SPECIFICATION

- Metal box size approx. 265mm x 140mm x 65mm.
- 7 x Bulgin 8 way socket outlets type P552.
- All pins wired in series.

Link Leads

Multi-way 5 core cable continuously rated for 3 x 1,000W load @ 220-240V ~ terminated with two Bulgin P551 eight pin plugs, and supplied in 3, 5, or 10 metre lengths in black only.



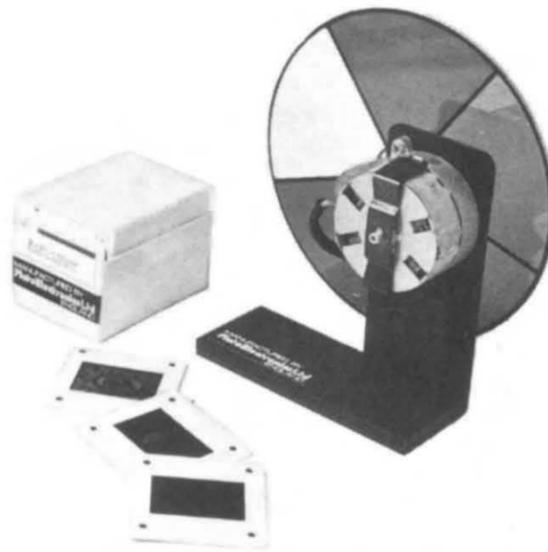
The unit incorporates a 12V A.C. motor with electric timer. It provides a programme of three 3" cassettes which change at pre-set intervals of between approximately 15 seconds to 15 minutes. There is also a remote control and manual facility for programme override. Ideal for use where projectors are permanently fixed so that programme variations can be easily made.

Splode Intachange



THE SPLODE INTACHANGE UNIT is self motorised and completely interchangeable. Each cell comprises two chambers of different coloured oils which are agitated by compressed air. In use a third distinct colour is created and the three move in random patterns often appearing to be in time with the beat of the music. Each cell has a sealing device for transit but a refill kit is available for any accidental spillage. Various coloured cells are available.

Colour Flash Kit



Suitable for any projector that takes standard 2" x 2" slides. The kit comprises 36 brightly coloured 35mm slides co-ordinated with an independent colour flash spinner. Used together they produce an animated effect in bright neon colours, the changing panorama of flickering images provides a focal point in any entertainment area. The kit is completely portable. Slides include vibrant patterns, illustrations and photo images in primary and complementary colours. The colour flash stand and spinner is available without slides for use with 6" picture wheels and the slides are also available in two different sets of 36 and a set of 12 making a total of 84.

Break Up Glasses

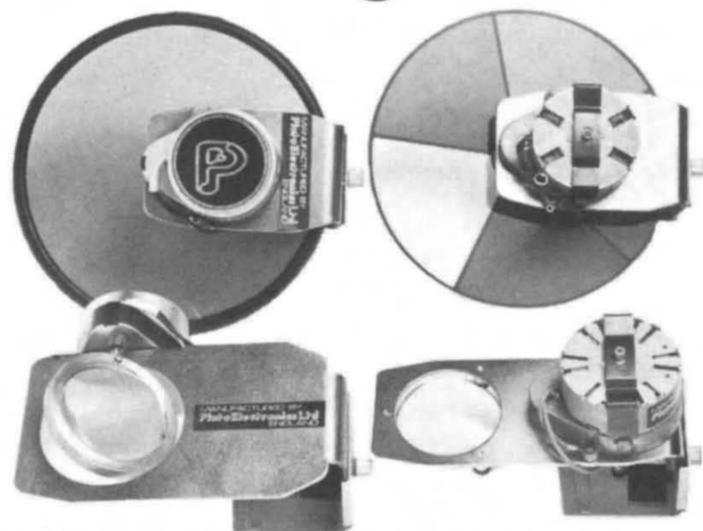


Break up Glasses — a set of five assorted two inch glass discs for use in the middle gate of the Pluto 5000 S. These distortion effect discs soften existing projected images to a more abstract visual.

MIDDLE GATE MOTOR ASSEMBLY

Middle gate motor assembly — for use with the Pluto 5000 to convert it into a P5000 S to take break up glasses.

Front of Lens Intachange



Front of lens intachange — clip on accessories for front of lens effects. The colour flash for image animation. Polariser for all those beautiful birefringent effects. The orbit prism rotator which deflects images 360° round the walls. The prism revolver which splits the image into three and revolves them at the same time.

Lenses & Adapters



There are six focus lenses available for use with Pluto and most other special effects projectors. 40mm ultra wide angle, 60mm wide angle, 85mm, 112mm and the 150 long focus lens. Also available is the Pluto Zoom lens which offers a choice of image size and zooms through from 70mm to 120mm.

In the range of special effects lenses the four prism lenses are, D. lens — for two images, T. lens — for three images, T.O. lens — for three overlapping images and the T.D. lens creates six overlapping images. The M. or Mirror lens divides the image into two sections which appear to merge or separate, while the K. or Kaleidoscopic lens creates a six part symmetrical pattern of the image.

Please note, all focal lengths of lenses are approx. and are given for guidance only. Pluto have recently changed the barrel size of the lens from 38.5mm to 42.5mm. During the interim period, both sizes will be held in stock and adaptors are available to enable smaller barrel lenses to fit new projectors. Tutor lens adaptors are also available to make all Pluto lenses fit this machine.

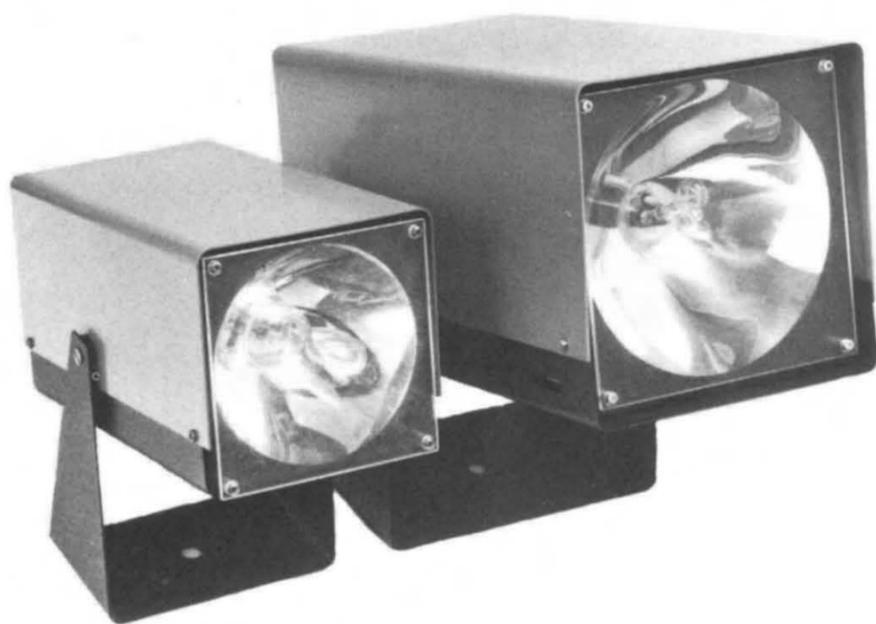
Motor Plates



INTACHANGE 6" WHEEL MOTOR PLATES
Are fitted with a 12V.A.C. constant run, bi-directional motor, and take all 6" wheels.

INTACHANGE 3" CASSETTE PLATES
Also have 12V.A.C. constant run, bi-directional motors. They allow fast, positive cassette changes and a high density drive wheel eliminates slipping.

Maxi & Mini Strobe



THE MAXI STROBE — is a modern design and features a 40W/second long life silica tube mounted in the acrylic protected reflector. The flash can be preset from one up to 20 flashes per second using the integral control or the remote control socket. Controls are recessed for protection.

TECHNICAL SPECIFICATION

- Power input: 220-240V ~ 85W max.
- 40W/sec. long life xenon flash tube.
- Variable speed control to provide flash rates from approx. 1 per sec. to 20 per sec.
- Remote speed control facility.
- Remote trigger socket for use with rainbow controllers available to special order.
- Tube protected by a tough clear perspex screen.
- Case of all metal construction.
- Controls recessed for added protection.

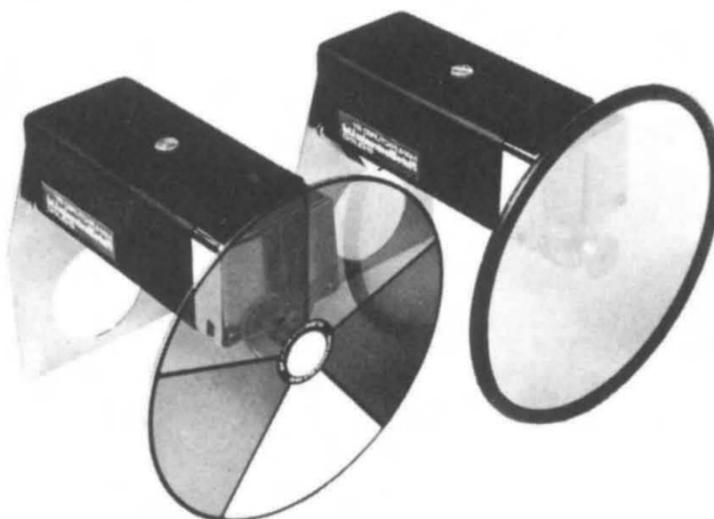
THE MINI STROBE — is similar to the Maxi but has a 20W/second tube and is adjustable from one to 12 flashes per second.

It has a centre of gravity handle/mounting bracket which allows the Mini Strobe to be operated free standing, wall, ceiling or track mounted. Colour gels can be fitted to broaden the range of effects.

TECHNICAL SPECIFICATION

- Power input: 220-240V ~ 350 mA max.
- 20W/sec. xenon flash tube.
- Variable speed control providing flash rates from approx. 1 per sec. to 12 per sec.
- Tube protected by perspex screen.
- High efficiency reflector.
- Lightweight all metal construction.
- Remote trigger socket for use with rainbow controllers available to special order.

Intachange Polariser & Colour Flash with Spinner



Twin motor units for use with the P5000 and P500 that do not have the front of lens facility. They produce the same effects, when used in conjunction with a 6" wheel and motor plate as the front of lens polariser and colour flash unit. They are also very effective on the Tutor projector using our Tutor intachange convertor.

3" Cassettes



These are the basic effect wheels in every light show. Used either singly or in sets from more than one projector, or with an Auto Changer on one machine, a room or area of a room can be painted with light effects and colour. The Cassettes come in six types:

LIQUID —

Almost certainly the best known and most popular type of effect, these cassettes are discs of coloured liquids which move under projection, creating ever-varying coloured shapes.

PATTERN —

A large selection of moire and pattern cassettes are available. The atmosphere created can vary between frenzy and relaxation.

PICTURE LIQUID CASSETTES —

Carefully selected images which come to life with the different coloured liquids flowing within.

LIQUID GRAPHIC CASSETTES —

A pattern cassette with the design creating illusionary effects while coloured liquids flow over the designs.

KALEIDOSCOPE —

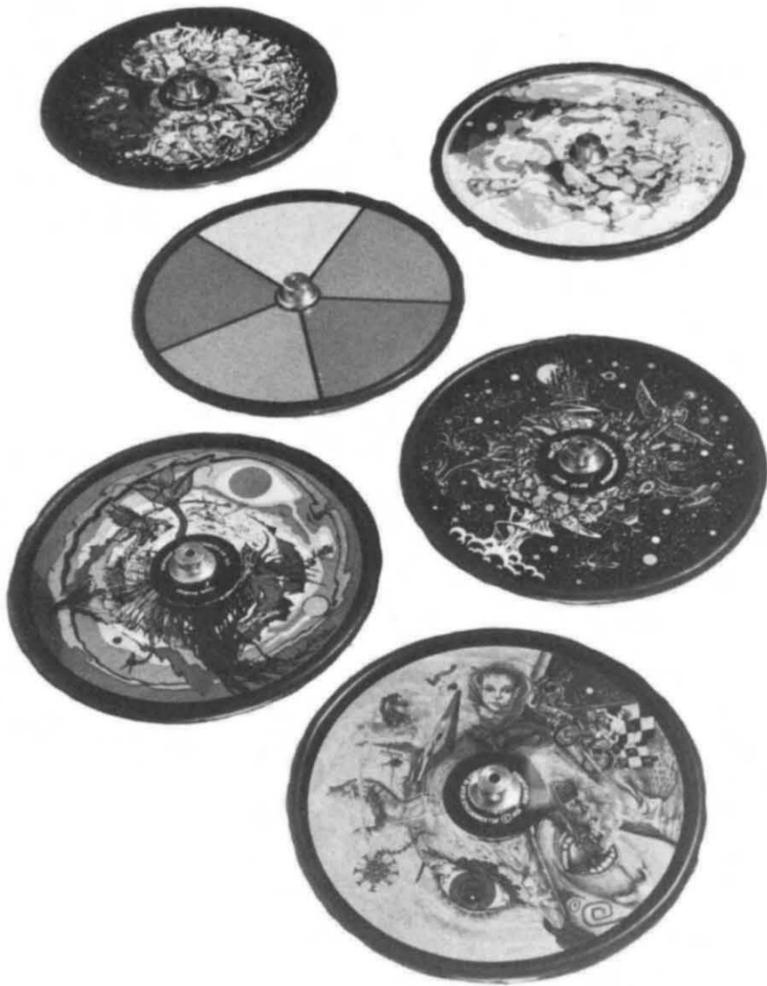
A specially designed cassette for use with the K.Lens, which in projection is reminiscent of the childhood toy.

ZOOMERS —

One colour effects which zoom in and out of the projection area. The 3" Cassettes give the widest range of effects, but these can be further enlarged by using the range of Special Effect Lenses.

For more information ask your local dealer for separate brochure.

6" Wheels



Fit any Pluto projector to widen the programme scope.

LIQUID —

The popular effect of multi-coloured fluids which create constantly changing patterns:

COLOUR CHANGER —

A five colour wheel which is used without the projector lens as a colour change source.

PICTURE WHEELS —

Are discs designed for use with all Pluto projectors and other compatible kinetic projectors. In use, a segment of the picture band is projected to appear as a moving frame or scene. The high light transmission properties mean that these wheels can be used to good effect with the colour flash spinner and special effect lenses. This popular low priced range of products is constantly being enlarged.

PICTURE LIQUID WHEELS —

Refreshingly different, the coloured liquids flow within special designs in a combination of ever-changing colour and intricate detail.

T.R. WHEELS —

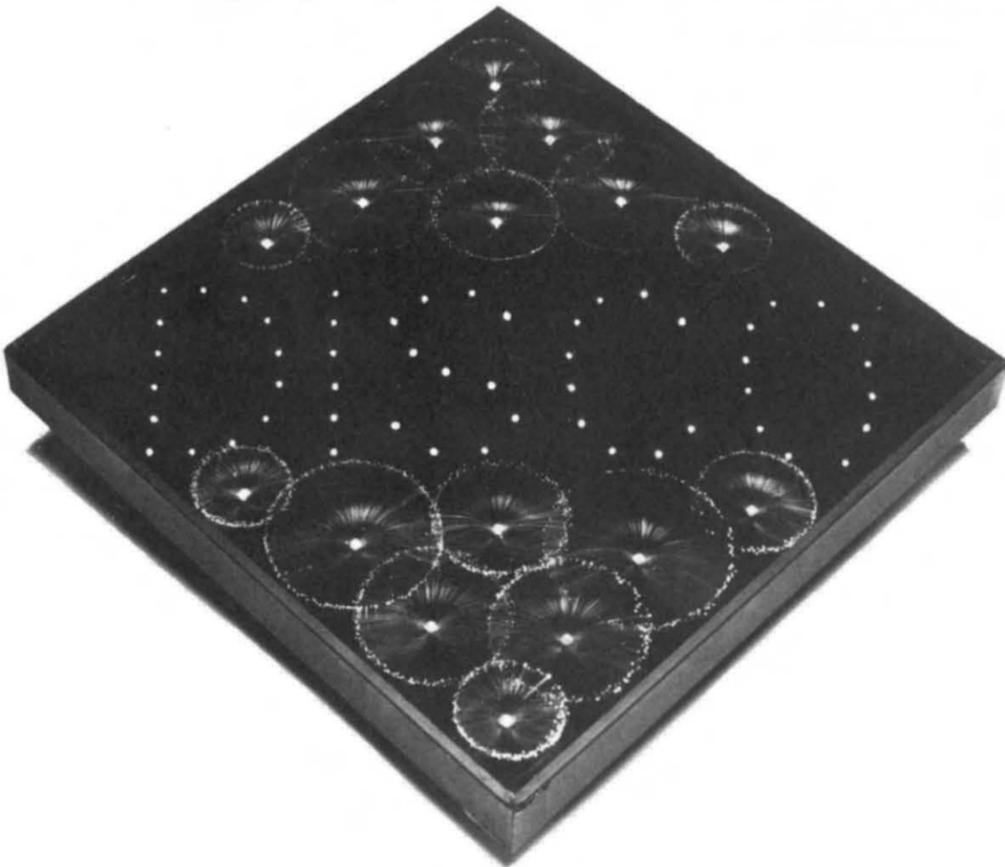
Produced in full colour, from specially prepared artwork, these wheels are packed full of lavish detail, the kind that can only be achieved by continuous tone techniques.

S.P. WHEELS —

Are static pattern wheels which combine simple graphics with high light transmission and are designed for use with special effects lenses and prismatic attachments.

Your local dealer will be able to inform you of any new wheels as they are released. Ask dealer for separate brochure.

DISCO PANEL



People always ask what's new, more often than not, "new" turns out to be a variation on an existing product. Well, the Disco Panel is an entirely new concept in disco thinking.

Using fibre optic light guide a colour changer and single long life light source, Pluto can offer signs written in light. The points of light constantly changing colour immediately draw attention to the sign.

A panel with the word DISCO in lights is now available as a standard item and specials can be undertaken, and are priced by quotation.

TECHNICAL SPECIFICATION

- Power input: 220/240V. ~ 50Hz. or 110/120V. 60Hz. to order.
- Lamp: M39 6V. 20W. long life.
- Fuse: (fitted internally) 0.5A. 20 x 50mm quick blow.
- Size: 400mm x 400mm x 90mm deep.

**Pluto Electronics Ltd.
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Your local stockist is

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