

Rainbow Catalogue



Welcome to the World of Colours

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Rainbow sets an Example for the Future

When you ask renowned Lighting Designers from theatres, musicals, concert touring and events about the best quality scrollers, they will all tell you the same: Rainbow Colour Changers. The Rainbow brand sets the worldwide standard and signifies quality for your production. You can benefit from the following advantages:

- Best quality in function and processing
- Enormous Reliability
- Extreme Longevity
- Excellent Price Performance Ratio
- Simple Handling

During daily work, you will be absolutely satisfied with these fast, silent and precise working scrollers. With the extremely fine resolution in movement, especially running on very slow speed, Rainbow Colour Changers emphasize why they stand out from their competitors.



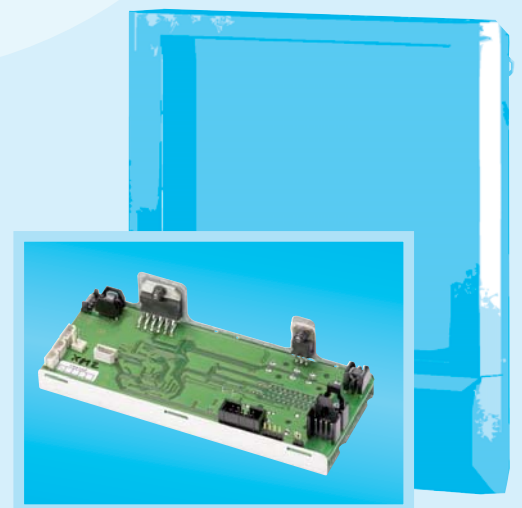
Bonner Sommer, Germany



Operaen Copenhagen, Denmark
Photo: © Lars Schmidt

New electronics, more options

Rainbow people have not rested on their laurels. By steadily developing the product range, the classic scroller has always been optimised and adapted for practical use. Although, the price has stayed the same, with the new electronic hardware, the capabilities have been additionally increased. Please read more about the additional functionality on page 4/5 and see the future.



New electronic hardware

The new Rainbow Scroller

As the leading brand in Colour Changers, Rainbow achieved best international reputation with the "PRO2" series. Big opera houses and famous productions like the Royal Opera House in London, Mamma Mia! in Hamburg, Operaen in Copenhagen or the Esplanade Theatre on the Bay in Singapore rely on the outstanding quality of Rainbow Colour Changers.

The new Rainbow Scroller generation captivates by:

- **Special colour mode:** To avoid the burning out of filters with a low transmission value
- **Extensive parameter possibilities:** Adjustment of different positioning modes from the console
- **Improved voltage tolerance** and over voltage protection ensures highest operational safety
- **Compatible use and operation** with former Rainbow Colour Changers
- **New: Update cable** allows the software update of the new Rainbow PRO2 electronic hardware from any Windows-based PC with USB output



Logical menu structure



Approved Functions and Features

In addition to the distinguishing characteristics mentioned on the left page, the approved functions and features build the foundation for a scroller which offers unequalled opportunities:

Convoncing technology

- Supports three different positioning modes:
 - Full colour frame mode
 - Half colour frame mode
 - Direct positioning
- Direct positioning of gelstring at power-up without calibration in all modes
- Single control channels for colour, fan, motor speed and control; independently addressable
- Programmable automatic operation with variable parameters for use without additional control board
- Individual configurations of features and automatic functions

High ease of use

- Comfortable, easy operation via built-in display (key operated menu guide)
- Solid aluminium housing with demountable front panel for optimum access to the scrolls
- Variable mounting possibilities via separate adaptor frames or universal adaptor
- Mounting devices for accessories such as top-hats and barndoors at the front

24 hours in-house Service

- 24 hour in-house service for colour strings and cables based on your particular demand
- Proven LIGHTPOWER Support for Hardware and Equipment

By this, Rainbow Colour Changers meet the requirements of your specific real life situations – whether touring, theatre or television studio.

Opera Carmen, Teatro Lirico di Cagliari, Italy,
Lighting Designer: Marco Mereu, Photo: © Priamo Tolu



Which scroller for which luminaire – how to read

To find the right Rainbow Colour Changer for your luminaire, please use the table on page 19 of this catalogue, keeping in mind the following: There are two crucial factors that govern the fitting of a scroller onto a luminaire:

a) the light output diameter of the luminaire

For a scroller to be used in front of a fixture, the diameter of the light output (eg. the fixture's lens diameter) should not exceed the diameter of the aperture on the rear of the scroller. In order to affect the luminaire's beam as few as possible, Rainbow Colour Changers have a bigger front aperture than rear aperture.

b) the size and fitting of the luminaire's colour runners


The runners on the front of the luminaire, which are normally used to hold the barndoor or colour frame, can be mounted on the top/bottom and left/right, as on a standard PAR can, or diagonally, as on many Studio luminaires. For diagonal mounting of the 8" and 12" PRO2 onto studio fixtures we offer special adaptor plates.



Woyzeck, World tour
Photo: © The ocular one

Symbols used in this catalogue

 Maximum number of colours

 Start-to-end string movement

 Adaptor size(s)

 Front/rear aperture Measurements


 Unit weight

 Supply voltage

 Power/data connector style

 Mains connector

 Number of scrollers per PSU

 Measurements

8-Lite PRO2 Colour Changers

- For colour strings up to 25 single colour frames
- One extremely low-noise, built-in tangential fan
- With speed control for extended durability of the colour string
- All unique features as mentioned on page 4/5

8-Lite PRO2 Colour Changer

The 8-Lite PRO2 Colour Changer for PAR36 8-cell spot banks, better known as 8-Lite audience blinders, features a square aperture for use with 8-Lites. Construction, operation and all the other functions are the same as the 15" PRO2 and the other units of the PRO2 Range. The PRO2 Colour Changer can use colour strings of up to 25 frames. All Colour Changers in the PRO2 Range offer extensive configuration options and special features which are set using the integrated 4-figure LED display. An external power supply is required for operation. It can be mounted to Major and Thomas 8-Lites without requiring any further accessories. For other 8-Lites there are mounting adaptors.

The unit is supplied with an adaptor set for Thomas 8-Lites and two safety cables, but without power/data cables, power supply or colour string.

New electronics inside



8-Lite PRO2

Technical data

24 V (PSU)	388x680 mm	
25	7 s	680x395 mm
XLR4	8,5 kg	519x830x98 mm

Cat No. Description

060505	8-Lite PRO2 Colour Changer – 25 colours
069805	Colour String 'Standard' for 8-Lite PRO2 – 20 colours (see p. 15)
060908	Adaptor hooks for mounting on Thomas 8-Lite Blinder (incl. screws); Spare
060905	Maxi 4 PSU 230 V, power supply for 12 Colour Changers 8-Lite PRO2
060909	Micro PSU, power supply for 3 Colour Changers 8-Lite PRO2

15" PRO2 Colour Changers

- For colour strings up to 25 single colour frames
- One extremely low-noise, built-in tangential fan with speed control for extended durability of colour string
- Universal front for nearly all 5K barndoors (15" PRO2)
- All unique features as mentioned on page 4/5

New electronics inside



15" PRO2 Colour Changer for PAR36 4-Lite audience Blinders

15" PRO2 Colour Changer for PAR36 4-Lite Audience Blinders

The 15" PRO2 Colour Changer for PAR36 4-Lite spot banks features square apertures front and back. Construction, operation and all the other functions are the same as the standard 15" PRO2. It can use colour strings of up to 25 frames. All Colour Changers in the PRO2 Range offer extensive configuration options and special features which are set using the integrated 4-figure LED display.

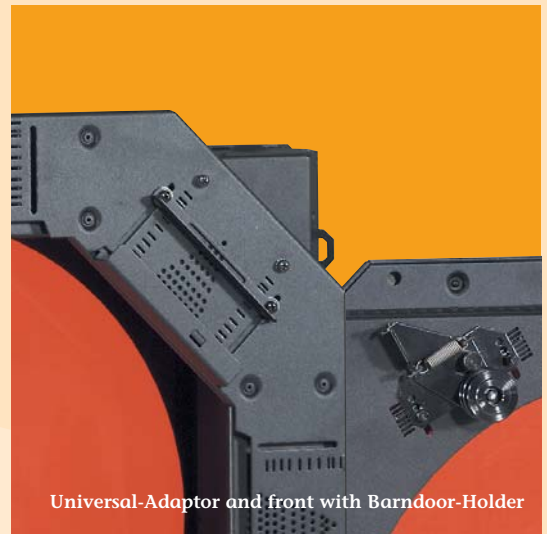
The unit comes with mounting adaptors for Major and Thomas PAR36 4-Lites; other adaptors are available on request to suit different types of cyc- or floor-lights. The 15" PRO2 for 4 Lites can be transformed into a standard 15" PRO2 via the exchangeable front and back bodies. An external power supply is required for operation.

The unit is supplied with adaptor rails and two safety cables, but without power/data cables, power supply or colour string.

Cat No.	Description
060306	Colour Changer 15" PRO2 – 25 colours, incl. square front and adaptor for Thomas 4-Lite
069804	Colour String 'Standard' for 15" PRO2 – 20 colours (see p. 15)
060927	15" PRO2 Front plate with round aperture and universal adaptor for 5K barndoor
060902	Universal Adaptor back plate for 15" PRO2
060943	Adaptor Strand ORION 1 ground row luminaire
060905	Maxi 4 PSU 230 V, power supply for 12 Colour Changers 15" PRO2
060909	Micro PSU, power supply for 3 Colour Changers 15" PRO2

Technical data

24 V (PSU)	400x400 mm	
25	6,4 s	395x395 mm
XLR4	6,2 kg	520x570x95 mm



Universal-Adaptor and front with Barndoor-Holder

15" PRO2 Colour Changer

The 15" PRO2 Colour Changer suits bigger, high performance luminaires with a front aperture of up to 380 mm. It has the same functionality as the 15" PRO2 Colour Changer for PAR36 4-Lite audience blinders.

The Colour Changer has a round aperture and is mounted via an universal adaptor back plate; this can be adjusted to ten different standard sizes. The scroller has at the front an adjustable three point roll mounting for barndoors. The complete front and back bodies can be exchanged in order to allow the unit to be used with a 4-Lite audience blinder or to allow the mounting of accessories from other manufacturers.

The 15" PRO2 can use colour strings of up to 25 frames. All Colour Changers in the PRO2 Range offer extensive configuration options and special features which are set using the integrated four key operated 4-figure LED display. An external power supply is required for operation.

The unit is supplied with a universal adaptor plate and two safety cables, but without power/data cables, power supply or colour string.

New electronics inside



15" PRO2

Technical data

- ⌚ 24 V (PSU) 📄 313, 322, 343, 355, 360, 370, 382, 396, 402, 412 mm
- 📦 25 ⏱ 6,4 s 📏 380x380 mm
- 🔌 XLR4 ⚖ 8,5 kg 📏 519x600x98 mm

Cat No. Description

060108	15" PRO2 Colour Changer – 25 colours incl. front plate for barndoors and universal adaptor
069804	Colour String 'Standard' for 15" PRO2 – 20 colours (see p. 15)
020350	4-way barndoor for 15" PRO2
060926	15" PRO2 Front with square aperture
060915	Adaptor Thomas 4-Lite for 15" PRO2 (consists of 060929 and 060917)
060917	Adaptor rails (2 pcs., incl. screws+washers) for mounting on the 15" PRO2 for 4-Lites (060306)
060929	Adaptor hooks (2 pcs., incl. screws+washers) for mounting on the 4-Lite Blinder

12" PRO2 Colour Changers

- For colour strings up to 25 single colour frames
- Two extremely low-noise, built-in axial fans with speed control for extended durability of the colour string
- All unique features as mentioned on page 4/5



12" PRO2 Colour Changer

The 12" PRO2 Colour Changer suits all larger luminaires up to 2.5 kW with a front aperture of up to 266 mm. The Colour Changer is mounted to the luminaire using two horizontal and two vertical adjustable hooks, which can be set to ten different standard sizes. The 12" PRO2 can use colour strings up to 25 frames long; the high resolution of the built-in electronics guarantees extremely smooth colour changes and precise colour positioning. All Colour Changers in the PRO2 range offer extensive configuration options and special features which are set using the integrated four key operated 4-figure LED display. The unit requires an external power supply for operation.

The unit is supplied with adjustable hooks, four additional cranked hooks and a safety cable, but without power/data cable, power supply and colour string.

Cat No.	Description
060105	12" PRO2 Colour Changer – 25 colours
069803	Colour String 'Standard' for 12" PRO2 – 20 colours (see p. 15)
060901	New Universal Adaptor Plate for 12" PRO2 – Studio version (see p. 18)
060920	4-way barndoor for 12" PRO2 (see p. 18)
060946	12" Barndoor Adaptor 4 Wheel (see p. 18)
060940	Set of four additional cranked hooks for luminaires with wide frame cassettes (Spare)
060905	Maxi 4 PSU 230 V, power supply for 24 Colour Changers 12" PRO2
060909	Micro PSU, power supply for 6 Colour Changers 12" PRO2

Technical data		
24 V (PSU)	240, 245, 255, 270, 275, 285, 290, 295, 300, 305 mm	
25	3,5 s	304x266 mm
XLR4	2,9 kg	416x393x78 mm

8" PRO Colour Changers

- For colour strings up to 25 single colour frames
- One extremely low-noise, built-in axial fan with speed control for extended durability of the colour string
- All unique features as mentioned on page 4/5

8" PRO2 Colour Changer

The 8" PRO2 Colour Changer suits all medium-sized luminaires with a front aperture of up to 192 mm, including the PAR64 and many 1kW profile, fresnel and PC luminaires. Like the 12" PRO2, this Colour Changer is mounted to the luminaire using two horizontal and two vertical adjustable hooks, which can be set to ten different standard sizes. The 8" PRO2 can use colour strings up to 33 frames long, with extremely smooth colour changes and precise colour positioning guaranteed by the high-resolution built-in electronics. The unit requires an external power supply for operation.

The unit is supplied with adjustable hooks and a safety cable, but without power/data cable, power supply and colour string.

New electronics inside



8" PRO2

Technical data

24 V (PSU)	185, 190, 198, 210, 215, 230, 240, 245, 255 mm	
33	3,6 s	215x192 mm
XLR4	2,2 kg	333x303x87 mm

Cat No. Description

Cat No.	Description
060101	8" PRO2 Colour Changer – 33 colours
069802	Colour String 'Standard' for 8" PRO2 – 20 colours (see p. 15)
060900	New Universal Adaptor Plate for 8" PRO2 – Studio version (see p. 18)
010823	4-way barndoor for 8" PRO2 (see p. 18)
060945	8" Barndoor Adaptor 4 Wheel (see p. 18)
060947	Adaptor Plate 8" PRO2, for ADB Warp (see p. 18)
060930	Set of four additional cranked hooks for luminaires with wide frame cassettes
060916	8" Adaptor 158 mm for ETC S4 PAR, LEKO etc.
060905	Maxi 4 PSU 230 V, power supply for 24 Colour Changers 8" PRO2
060909	Micro PSU, power supply for 6 Colour Changers 8" PRO2

Further adaptor plates (also for older 8" models) are available on request. Also see page 18.

6" PRO2 Colour Changers

- For colour strings up to 33 single colour frames
- One extremely low-noise, built-in axial fan with speed control for extended durability of the colour
- All unique features as mentioned on page 4/5

New electronics inside



6" PRO2 Colour Changer

The extremely compact 6" PRO2 Colour Changer suits all smaller luminaires with a front aperture of up to 127 mm, especially the ETC Source Four range (19°-50°) or the Strand SL.

The 6" PRO2 can use colour strings up to 33 frames long. Operation and set-up options are the same as on all other PRO2 Series colour changers. The Colour Changer is mounted to the luminaire via an adaptor plate with integrated Rosco heatshield; this adaptor plate is available in two different sizes. The unit requires an external power supply for operation.

The unit is supplied with a heatshield adaptor and a safety cable, but without power/data cable, power supply and colour string.

Cat No.	Description
060104	6" PRO2 Scroller – 33 colours, incl. 6,25" Heatshield
060106	6" PRO2 Scroller – 33 colours, incl. 7,5" Heatshield
060107	6" PRO2 Scroller – 33 colours, excl. Heatshield
069801	Colour String 'Standard' for 6" PRO2 / 20 colours (see p. 15)
020641	4-way barndoor for 6" PRO2
060923	6,25" Heatshield with holder kit for ETC S4 / Altman Shakespeare (spare)
060921	7.5" Heatshield with holder kit for ETC S4 PAR, LEKO etc. (spare)
060905	Maxi 4 PSU 230 V, power supply for 24 Colour Changers 6" PRO2
060909	Micro PSU, power supply for 6 Colour Changers 6" PRO2

Technical data		
24 V (PSU)	159x159 / 190x190 mm	
33	2,9 s	154x127 mm
XLR4	1,9 kg	285x243x87 mm

Power Supply – MAXI 4 and MICRO PSU

- Opto-isolated DMX 512 input with feed-through connector
- No external Splitbox required
- Extremely small size with M 10 mounting bolt
- Switchable termination for the DMX input
- LEDs for DMX input, mains connection and line termination
- Wide mains voltage range
- Four buffered outputs to scrollers (MAXI PSU)
- 24 Colour Changers 6"/8"/12" PRO or 12 Colour Changers
- 15" PRO/8-Lite PRO (MAXI PSU)
- 6 Colour Changers 6"/8"/12" PRO or 3 Colour Changers 15" PRO/8-Lite PRO (MICRO PSU)

MAXI 4 and MICRO PSU

The MAXI 4 PSU is a power supply and DMX splitter for 24 'small' Colour Changers (6", 8" and 12") or 12 'big' units (15" and 8-Lite). The Colour Changers are connected via separate XLR4 outputs.

The MICRO PSU is also a compact power supply and DMX splitter but for 6 'small' Colour Changers (6", 8" and 12") or 3 'big' units (15" and 8-Lite). The Colour Changers are connected via an XLR4 output.

By connecting via an XLR4 output all Colour Changers are then daisy-chained and the PSU has an additional return sockets for setting up a ring loop when using longer cable runs.

The unit is supplied with a mains cable fitted with a Schuko plug and an M 10 bolt, but without data cable.



MAXI 4 & MICRO PSU

MAXI 4 PSU

- 🕒 120-230 V
- 📏 12/24
- 🔌 CEE 22
- 🔌 4xXLR4
- 📏 3,5 kg
- 📏 293x82x250 mm

MICRO PSU

- 🕒 84-260 V
- 📏 3/6
- 🔌 CEE 22
- 🔌 1xXLR4
- 📏 1,4 kg
- 📏 178x72x136 mm

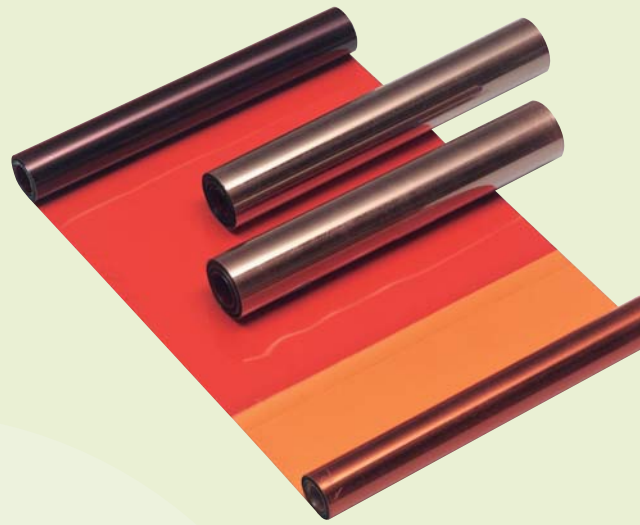
Cat No. Description

060905	MAXI 4 PSU 230 V, power supply for 24 "small" Colour Changers (6", 8" or 12" PRO2) or 12 "big" Scrollers (15" or 8-Lite PRO2)
060909	Micro PSU, Power supply for 6 "small" Colour Changers (6", 8" or 12" PRO2) or 3 "big" Scrollers (15" or 8-Lite PRO2)
270926	Halfcoupler 'Slimline', 30 mm
270410	Halfcoupler 2" Lightweight, incl. M 10 screw and nut
270708	Safety cable 3 mm, 60 cm with snap link 60 x 6 mm

Colour String Service

Pre-manufactured colour strings for Colour Changers

- Company owned in-house colour string service
- For Colour Changers of any type from any manufacturer
- For best results, we recommend Rosco Supergel filters, colour and diffusion filters in high temperature resistant polycarbonate quality
- We can also supply filter products from other manufacturers on request



We can manufacture colour strings for all common colour changers including, of course, our own Rainbow Colour Changers.

Our service is absolutely flexible and tailored to meet your particular demand. For the best results, we recommend Rosco Super-

gel colour filters. However, we also stock the complete Lee filter range and can manufacture strings of mixed colour type, if required. All of our colour strings are produced in a dust-free environment using precise workmanship. Colour strings are glued with solely Scotch 3M high temperature tape. A short delivery time goes with-

out saying. Please consider the following Rainbow colour strings only as a guide. To discuss your individual requirements please contact us, or fill in our colour string order form: www.rainbow-colour-changers.de. If you require this form by fax just call us.



Esplanade – Theatres on the Bay, Singapore

This is how a “standard” colour string with Rosco Supergel – 20 colours – could look like*

# 1		0	Clear	# 11		56	Gypsy Lavender
# 2		9	Pale Amber Gold	# 12		58	Deep Lavender
# 3		312	Canary	# 13		65	Daylight Blue
# 4		15	Deep Straw	# 14		68	Sky Blue
# 5		317	Apricot	# 15		370	Italien Blue
# 6		19	Fire	# 16		371	Theatre Booster 1
# 7		21	Golden Amber	# 17		79	Bright Blue
# 8		26	Light Red	# 18		382	Congo Blue
# 9		339	Broadway Pink	# 19		90	Dark Yellow Green
# 10		49	Medium Purple	# 20		95	Medium Blue Green

Cat No.	Description
069805	Colourstring „Standard“ for 8-Lite PRO2 / 20 colours
069804	Colourstring „Standard“ for 15" PRO2 / 20 colours
069803	Colourstring „Standard“ for 12" PRO2 / 20 colours
069802	Colourstring „Standard“ for 8" PRO2 / 20 colours
069801	Colourstring „Standard“ for 6" PRO2 / 20 colours
PF8002/100	Gel Attachment Pins (100pcs.), for the use in PRO2-units only
060952	Heat resistant tape 3M 25,4 mm x 66 m
060953	Heat resistant tape 3M 50,8 mm x 66 m

*Please consider that all colours reproduced in this catalogue can only give you an impression of the original colour. They are subject to the restrictions of the printing process.

Accessoires

Rainbow Cable

To provide highest quality for data and power supply to our scrollers even for long distances or in complex system installations, we recommend the special XLR4 Rainbow cable.

This well protected, highly flexible cable with lines $2 \times 2,0 \text{ mm}^2 + 2 \times 0,38 \text{ mm}^2$ is available in fixed lengths including Neutrik XLR4 connectors or by metre.

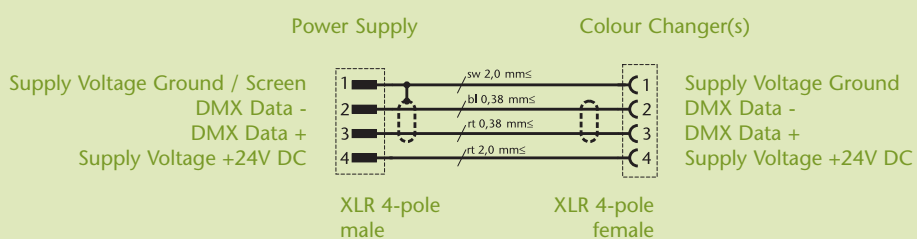


Power/Data cable range

Cat No.	Description		
210615	Power/Data cable XLR4, 1 m	210611	Power/Data cable XLR4, 10 m
210609	Power/Data cable XLR4, 2 m	210612	Power/Data cable XLR4, 15 m
210616	Power/Data cable XLR4, 3 m	210613	Power/Data cable XLR4, 20 m
210617	Power/Data cable XLR4, 4 m	210614	Power/Data cable XLR4, 25 m
210610	Power/Data cable XLR4, 5 m	210617	Power/Data cable XLR4, by metre
210618	Power/Data cable XLR4, 6 m	222201	Neutrik XLR4 plug, male
210619	Power/Data cable XLR4, 8 m	222202	Neutrik XLR4 plug, female



Pin-Assignment



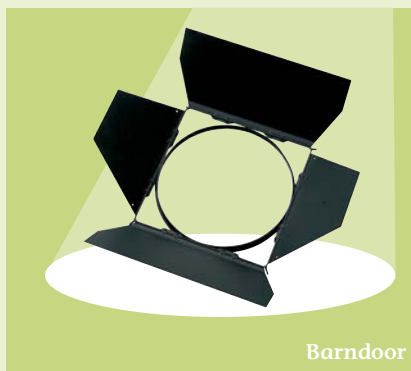
This screen is only to be connected on the male plug's end – on the female connector the screen wire stays isolated (floating).

Generally the XLR connector's housing are not connected to screen or signal ground.



MammaMia!, Stockholm, Sweden
Photo: © Martin Skoog

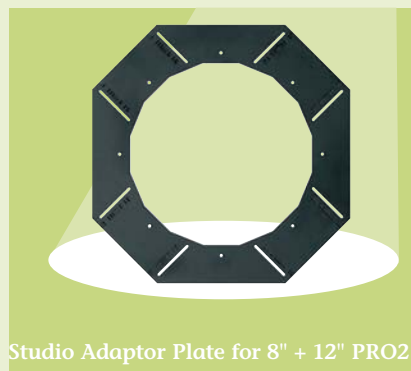
Further Accessoires



Barndoor



Barndoor Adaptor 4 wheel



Studio Adaptor Plate for 8" + 12" PRO2

Barndoors

These 4-way barndoors can be easily used with our Colour Changers. They are designed to fit to the front of the units.

Rainbow Colour Changers

Update Cable

This cable allows the software update of the new Rainbow PRO2 electronic hardware from any Windows-based PC with USB output. The required Rainbow update wizard PC software is available for free on www.rainbow-colour-changers.de

Barndoor Adaptor 4 wheel

Because of the strong demand for mounting slide-in barndoors onto the front of the 8" and 12" PRO2 Colour Changers, we have designed two special plates which can be fitted to the front of these units and then provide runners for such accessories.

These adaptor plates fit to the barndoor adaptor of the 8" and 12" PRO2. So an existing Rainbow Colour Changer can easily be mounted.

Adaptor Plate for ADB Warp

Adaptor plate for no light spillage of a Rainbow 8" PRO2 in front of a ADB Warp spot.

Even a beam angle of 50° will not be cut.

Studio Adaptor Plate for 8" and 12" PRO2

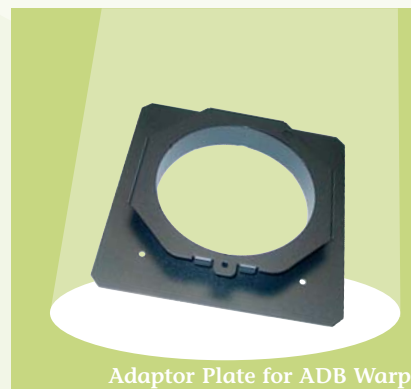
This universal adaptor plate is used to mount 8" and 12" PRO2 Colour Changers in front of studio luminaires which have diagonal runners for barndoors. The 8" universal adaptor plate is also suitable for older 8" Rainbow Colour Changers like the Rainbow TWO-16.

The plate allows diagonal mounting of the hooks, so that studio luminaires with diagonal runners can be fitted with the scrollers. With this universal adaptor plate there are more horizontal and vertical mounting-sizes available compared with the standard hook mounting positions of the scrollers.

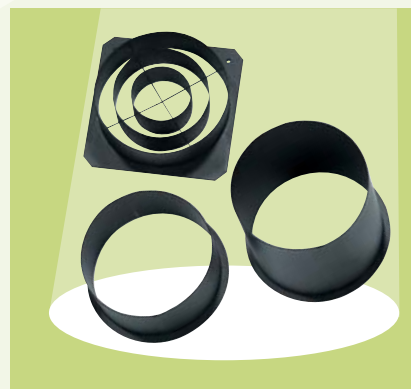
See also right page second table.



Update Cable



Adaptor Plate for ADB Warp



Further accessoires on request.

Cat No.	Description		
020641	4-way barndoor for 6" PRO2	060946	Barndoor Adaptor 4 Wheel for 12" PRO2
010823	4-way barndoor for 8" PRO2	060900	New Universal Adaptor Plate for 8" PRO2 (Studio version)
060920	4-way barndoor for 12" PRO2	060901	New Universal Adaptor Plate for 12" PRO2 (Studio version)
020350	4-way barndoor for 15" PRO2	060151	Rainbow Colour Changers Update Cable
060945	Barndoor Adaptor 4 Wheel for 8" PRO2	060947	Adaptor Plate 8" PRO2, for ADB Warp



Worldwide Distribution:
Rainbow Colour Changers GmbH
An der Talle 26-28
D-33102 Paderborn
Germany

Tel.: +49 (0) 52 51/14 092-28
Fax: +49 (0) 52 51/14 092-90

www.rainbow-colour-changers.de
info@rainbow-colour-changers.de

Version VII.01
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Rainbow Colour Changers GmbH

German Distribution:
Lightpower GmbH
An der Talle 26-28
D-33102 Paderborn
Germany

Tel.: +49 (0) 52 51/14 32-20
Fax: +49 (0) 52 51/14 32-80

www.lightpower.de
info@lightpower.de

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