



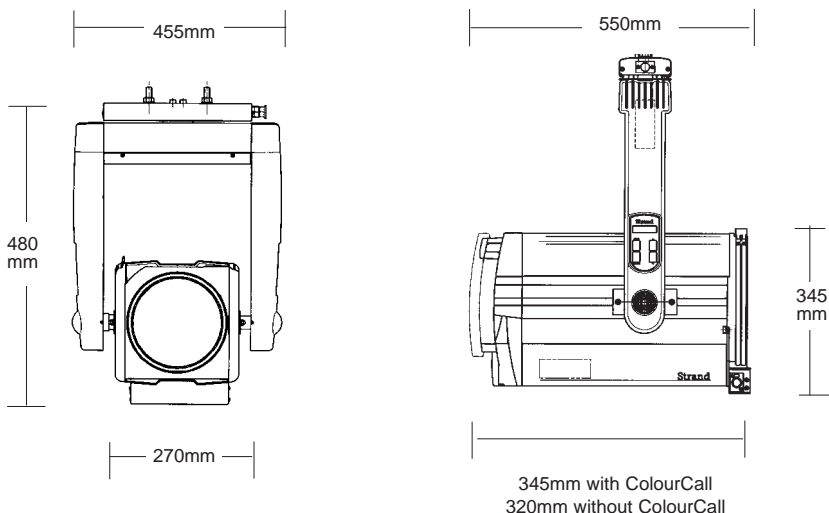
PIROUETTE™

Automated spotlight 2500/2000/1200W

Features

Pirouette is the answer to many creative and production problems in all areas of performance lighting. With its precise automation of pan, tilt and focus, its use of traditional theatre lighting optics and its ability to operate at 2500W, 2000W or 1200W, Pirouette is designed to make the most effective use of tightly packed rigs or difficult to access positions, giving the lighting designer unparalleled flexibility.

- ❑ Brings affordable remote control of traditional theatre lighting parameters
- ❑ Supplied with PC spot optics. Optional fresnel lens also provided for extra flexibility
- ❑ Designed around CP91 2500W lamp will also take CP92 2000W lamp and with kit supplied, CP93 1200W lamp
- ❑ Exceptional stage coverage with over 360° horizontal rotation, 270° vertical adjustment and beam angle range of 4° to 58°
- ❑ Recorded settings recalled with 16 bit accuracy
- ❑ Will accept Colour Call or any DMX colour scroller into its integral DMX circuit
- ❑ Using latest process control technology and surface mount electronics ensures smooth, accurate and reliable operation
- ❑ Set up functions accessed through yoke mounted keypad and display
- ❑ All power and data cabling as well as integral secondary safety suspension effectively managed in yoke/support interface



Weights and dimensions

	PC	F
Weight	15.5kg	15.0kg
Packed Weight	20.0kg	20.0kg
Packed volume	0.350 ³	0.350 ³
Filter Cut Size	245 mm	245 mm



Electrical & mechanical Data

Construction

Luminaire:

Pressure die cast front and rear panels with extruded aluminium tie bars and formed aluminium cover panels all finished in two tone grey and black epoxy powder coating

Yoke:

6mm x 75mm bar with vacuum formed ABS covers

Support Beam:

Extruded aluminium channel with folded sheet cover

Lenses

200mm dia heat resistant borosilicate lenses. PC lens is installed in die cast front panel behind 25mm wire guard.

Optional Fresnel lens is included in carton.

Lampholder

G22 to take lamps of 90 mm LCL and maximum of 2500W Spacer kit is also supplied to allow 1200W CP93 lamp to be used

Supply Voltage

Lamp power:

230V +/- 10% 50/60 Hz

Motion power:

24V DC from 4 way power/data buffer box

Control Protocol

8 bit DMX, 16 bit DMX or PALS MRL user selectable

Data Connections

5 pin female XLR mounted on support beam for data input

5 pin male XLR mounted below colour runners for Colour Call scroller connection.

Other scrollers will require a 5 to 4 pin adapter

Power/Data Buffer Box

Supply Voltage

100/250V 50/60 Hz via IEC 320 recessed male connector

Output Voltage

4 x 24V DC

Fuse Ratings Supply:

5A Output: 4 x 3.15A

Signal Connections

DMX/MRL In: 5 pin male XLR

DMX/MRL Out: 5 pin female XLR

Switch for end of line termination

Data/Power out to Pirouette:

4 x 5 pin XLR

Signal Isolation

DMX/MRL signals are opto isolated for extra reliability



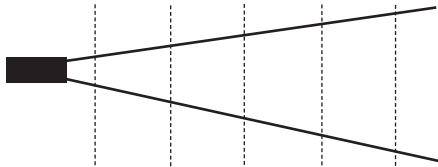


Performance guide

Typical performance based on laboratory readings using CP91 2500W lamp

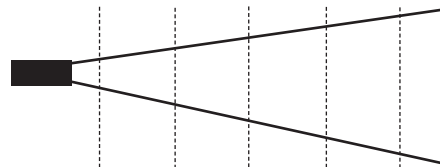
Pirouette PC: Spot

Distance (m)	7.5	10	12.5	15	20
Beam Ø (m)	-	0.8	1.0	1.2	1.6
Illum (lux)	-	5620	3600	2500	1400



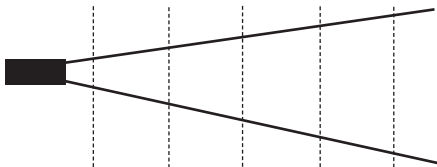
Pirouette F: Spot

Distance (m)	7.5	10	12.5	15	20
Beam Ø (m)	-	1.3	1.6	1.9	2.6
Illum (lux)	-	3625	2320	1610	910



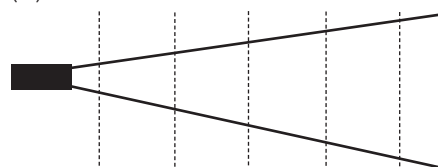
Pirouette PC: Flood

Distance (m)	7.5	10	12.5	15	20
Beam Ø (m)	8.5	11.3	14.1	17.0	-
Illum (lux)	510	290	185	-	-



Pirouette F: Flood

Distance (m)	7.5	10	12.5	15	20
Beam Ø (m)	8.1	10.8	13.6	18.7	-
Illum (lux)	600	340	220	150	-



To calculate lux levels at any throw distance divide the following factors by the distance squared:

	Pirouette F	Pirouette PC
Spot	362670	561900
Flood	34240	28860

e.g. Pirouette PC at full flood over 12m throw $28860/144 = 200\text{Lux}$

To calculate beam diameters at any throw distance multiply the throw in metres by the following factors:

	Pirouette PC	Pirouette F
Spot	0.08	0.13
Flood	1.13	1.25

e.g. Pirouette PC at full flood over 12m throw $1.14 \times 12 = 13.68\text{m}$



Operational features

Motion

	Range	Accuracy	Resolution
Pan	370°	0.3°	1°
Tilt	+30° to -95°	0.3°	1°
Focus	4° to 58°	1%	2.5%

Set-up options

The following functions can be selected using the yoke mounted key pad and display:

- 16 bit DMX, 8 bit DMX or MRL
- DMX or MRL address
- Velocity channel
- MRL baud rate
- Software stops on Pan, Tilt & Focus
- Presets for display routine independent of control console

Installation

Lamp power and motion power/data input is via connections on the suspension beam which requires two suitable hook or C-clamps for rigid installation. The suspension beam incorporates integral secondary safety suspension provision so Pirouette does not require a safety cable. Motion power and data is supplied from a four way power and data buffer box

Accessories

Pirouette has colour runners to take DIN standard 245 x 245 mm colour frames, a four leaf rotating barndoor or Colour Call CC1 colour scroller

Ordering information

Pirouette must be planned as a complete installation with data distribution boxes and data/power cabling. Please consult your Strand distributor for assistance

Cat No Description

17502	Pirouette, complete with fresnel lens and 1200W lamp adapter	55126	Scroller adapter cable - 5 pin to 4 pin
		66081	DMX control cable - 10m
17550	4-way power/data distribution box	66082	DMX control cable - 25m
		19112	Barndoor, 4 leaf rotatable
		55001	Colour Call Scroller CC1
		18203	Additional colour frame, metal
Cables, accessories and lamps		43914	CP91 Lamp 2500W, 3200K, 400Hr - 240V
55103	Data/power cable - 3m	43913	CP91 Lamp 2500W, 3200K, 400Hr - 230V
55105	Data/power cable - 5m	43934	CP93 Lamp 1200W, 3200K, 400Hr - 240V
55127	Data/power cable - 450mm for connection of Colour Call to Pirouette	43933	CP93 Lamp 1200W, 3200K, 400Hr - 230V
		43924	Additional CP92 Lamp 2000W, 3200K, 400Hr - 240V
		43923	Additional CP92 Lamp 2000W, 3200K, 400Hr - 230V

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