LED COLOURCHANGERS

LED COLOURCHANGERS

SGM®
Technology for Lighting

S G M L E D C O L O U R C H A N G E R S

LED LINE SGM is a series of high-tech colour changing fixtures, ideal for all artistic indoor and outdoor lighting applications. All the products in the line offer the possibility of variable, versatile lighting, able to show any environment at its best: extremely reliable in the **entertainment sector** (rock concerts, TV shows, opera and theatrical events, but also for museums, art galleries, etc.), these fixtures also give their best in **artistic architectural lighting** (for highlighting fountains, hotels, monuments, historical buildings and key municipal sites). **SGM LED LINE** fixtures offer the creative fantasy of lighting designers, architects and designers some indispensable features, in all their highly varied applications.

01:

LEDs - the light source that makes the difference

LEDs offers a series of unbeatable advantages over conventional light sources: they have a life of over 100,000 hours at full power, with practically non-existent maintenance.
They generate light that does not emit ultraviolet rays (which are potentially dangerous) nor infrared rays, thus avoiding heating or damaging the objects being illuminated.

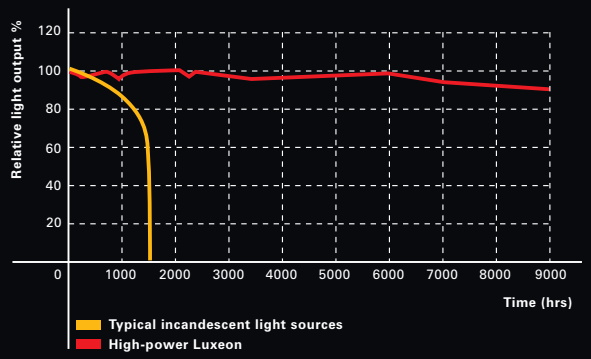
All this with considerable energy saving and incomparable colour rendering: for example, the red's intensity is the same as that of a 750W halogen lamp, but consumes less than 100W.
LEDs therefore offer a highly competitive ratio between low consumption and very high efficiency, which also means lower environmental impact.

EST-LDI AWARD 2004 - Las Vegas USA
PALCO 3 won as “Lighting Architecture Product of The Year”

IF DESIGN AWARD 2006 - Hannover Germany
PALCO 3 got to the finals on the field “Product Design”

STAR AWARD FOR NAB 2006 - Las Vegas USA
PALCO 3 WHITE LED won as “Ultra-High Power White Led Fixture”

DESIGNPREIS 2007 - Berlin Germany
PALCO 3 is nominated on the field “Product Design”



SGM LED COLOURCHANGERS

02:

Silent running

The extraordinary efficiency of SGM LED LINE fixtures is absolute silent. In fact, without the use of any kind of forced ventilation, cooling is carried out via convection, by means of the units' rear finning. An electronic self-regulating temperature system ensures continuous operation even in extreme conditions.

03:

Totally independent operation

SGM LED LINE fixtures are completely programmable and can be run without the need for any external controller. In 'stand-alone' mode, i.e. using just their on-board microcomputer, it's possible to form systems consisting in several fixtures, up to a maximum of 30 (with 1 'MASTER' and 29 'SLAVES'), which can be programmed independently. The fixtures can also be controlled via computer, or using a DMX control system (such as SGM's REGIA 2048 console). In this case, it's possible to connect dozens of fixtures and control them simultaneously via DMX.

04:

Playback programming for a whole week

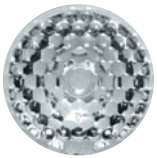
The on-board menu offers an extremely interesting function for scenographic architectural lighting applications: the possibility of running the completely automatic playback of a series of 48 'events' previously programmed on the fixture and organized to be run one after another over a period of a week.
Each event can include different settings of luminous intensity and colour mixing, shutter effects (strobe, pulse, random strobe), macro (rainbow, random colour), etc. The order, the precise instant in which they begin, and the duration of each event can be accurately programmed for 7 days directly on the fixture.

SGM LED LINE fixtures can be remote controlled via a dedicated IR control unit. The **optional remote controller** enables a series of functions to be controlled, including switching fixtures on and off, adjustment of (RGB) colour mixing, macros, programs and colour combinations (20 presets).

8° lens

Has suitable characteristics for lighting **from a distance**. Thanks to the possibility of creating **angled lighting** is suitable for theatre context.

25° lens



Has suitable characteristics for lighting from a **medium distance**. Lights objects and illuminates **backdrops** in a diffused even manner.

40° lens

Has suitable characteristics for lighting from a **short distance**. Perfect for highlighting large surfaces, such as installations on **facades** and monuments.

10° x 22° vertical elliptical lens

Has the ideal characteristics for lighting **any vertical surface**. The most suitable for picking out columns, stage wings, advertising billboards and so on.

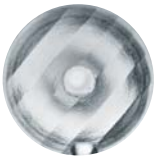
10° x 22° horizontal elliptical lens

Has the ideal characteristics for lighting any **horizontal surface**. For highlighting floors, water surfaces, lawns and so on.

8° asymmetric lens

Ideal for illuminating **large and high** urban **surfaces**. Installing the fixture up against the surface to be illuminated forms narrow, very high light beams.

30° asymmetric lens



Particularly suited to use on **stage wings** and backdrops, for television and theatrical shows.

10° x 90° elliptical lens

Its aperture enables to cover **wide backdrops** with excellent luminosity and even projection. Perfect for **television** and **theatrical shows** and for all kinds of **artistic architectural illumination**.

Palco 3

PALCO 3

A fixture with an exclusive design, an exceptional tool for its functional qualities as well as to its stylish contribution, that can be offered to any type show, performance or installation.
SGM's PALCO 3 isn't just a new idea in colour-changing fixtures with its **light source 49 high-power Luxeon LEDs**, it's also a unit decidedly **attractive to look at** and able to fitted harmoniously into any setting, from musical shows to artistic architectural lighting.
As well as ensuring considerable energy saving, absolute silence and **protection to IP65**, with **PALCO 3**, users can count on **very high luminous power**, that sets records even in the LED lighting sector (**2.800 Lumens** for the PALCO 3 with 3W LEDs).
For optimum installation flexibility, the unit's head can be removed from the rest of the body.

01: Control

PALCO 3 functions can be controlled via USITT Standard DMX 512 serial digital signal or RS 232 serial signal.
PALCO 3 transmits and receives on **8 DMX channels**.

02: Function menu

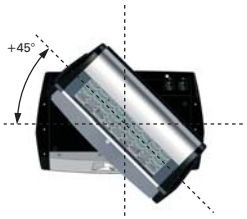
PALCO 3 has a multi-function menu which is used to:

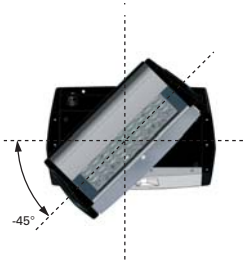
- configure fixtures according to requirements
- input "standalone" programs
- perform self-tests
- report operational status information.

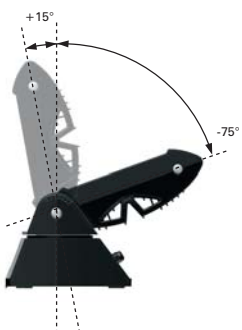
The menu is accessed by means of a user-friendly interface with a 10-digit display. The on-board software can be upgraded via DMX.

03: Colour / Colour temperature

Additive RGB colour mixing, obtained using a matrix of **24 red, 18 green and 7 blue LEDs**, offers an endless range of colour combinations, from the deepest to the softest colours, with an effective control of their tone.
Colour temperature is **6.000°K** and can be varied in a linear manner, directly on the fixture, according to needs.







04: Interchangeable lenses

PALCO 3's luminosity is very high **2.800** Lumens is currently unparalleled in the LED lighting sector.
The five interchangeable lenses (8°, 25°, 40°, elliptical 10° x 22° vertical and horizontal) offer various projection angles and allow **PALCO 3** fixtures to be used at different distances from the objects to be illuminated.

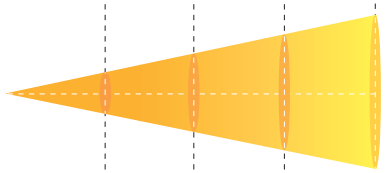
05: Installation

PALCO 3 has unusual, particularly stylish lines that enable it to discreetly fit into the surroundings and harmonically adapt to the architectural elements and settings to be lit.
For optimum installation flexibility, the unit's head can be removed from the rest of the body.
PALCO 3 is preset for various types of installation:

- Floor or wall-mounted by means of **four** holes on its base, using **M6 screws**.
- Flown from trussing - even upside down - (by fitting a clamp to the **four** Fast-Lock holes on its base).
- Floor-standing (on flat surfaces), maintaining utmost stability with any head angle.

PALCO 3 is suited to indoor and outdoor installation, as it's protected to **IP65** (certified by Istituto Giordano S.p.A.).
PALCO 3's head can be inclined vertically or horizontally, in order to best adapt to the areas and architectural elements to be illuminated. **Pan: +/- 45°; Tilt: +15° / -75°.**

PALCO 3 - Total Lumen 2.800



		2 mt 6.56 ft	5 mt 16.40 ft	10 mt 32.81 ft	15 mt 49,21 ft
8°	**Lux center** (boost on)	9100	1960	490	218
	Foot candles (boost on)	845	182	46	20
	Lux center (boost off)	10710	1764	441	196
	Foot candles (boost off)	995	164	41	18
	Field size (m)	0,35	0,87	1,75	2,62
	Field size (ft)	1,15	2,87	5,74	8,61
25°	**Lux center** (boost on)	2100	385	96	43
	Foot candles (boost on)	195	36	9	4
	Lux center (boost off)	1890	347	87	39
	Foot candles (boost off)	176	32	8	4
	Field size (m)	0,89	2,22	4,43	6,65
	Field size (ft)	2,91	7,27	14,55	21,82
40°	**Lux center** (boost on)	756	143	36	16
	Foot candles (boost on)	70	13	3	1
	Lux center (boost off)	680	129	32	14
	Foot candles (boost off)	63	12	3	1
	Field size (m)	1,68	4,20	8,39	12,59
	Field size (ft)	5,51	13,76	27,53	41,29
10° x 22°	**Lux center** (boost on)	5110	843	211	94
	Foot candles (boost on)	475	78	20	9
	Lux center (boost off)	4599	759	190	84
	Foot candles (boost off)	427	70	18	8
	Field size axys A (m)	0,35	0,88	1,76	2,64
	Field size axys A (ft)	1,16	2,89	5,79	8,68
	Field size axys B (m)	0,81	2,02	4,04	6,06
	Field size axys B (ft)	2,65	6,63	13,26	19,88

SPECIFICATIONS	PALCO 3
Colour mixing	RGB
Luxeon Blue LEDs	7 3W
Luxeon Green LEDs	18 3W
Luxeon Red LEDs	24 1W
Luminous flux	2.800 Lumens
Colour temperature	6.000 °K (variable)
Consumption	150W
LEDs life (hours)	100.000 at maximum power
Interchangeable lenses	8°, 25°, 40° Elliptical 10°x22° vertical Elliptical 10°x22° horizontal
Power supply full range	AC 90-270V, 50-60Hz
DMX channels	8
Interface	LED display 3 buttons
Internal microcomputer	Large function menu Software updatable via DMX
Pan	+/- 45°
Tilt	+15°, - 75°
Insulation degree	IP65
Dimensions cm (LxDxH)	42,5 x 37,5 x 22,9
Weight Kg	13,5
Codes	**020_2480** (with 8° lens) **020_2431** (with 25° lens) **020_2432** (with 40° lens) **020_2433** (with 10°x22° vertical elliptical lens) **020_2489** (with 10°x22° horizontal elliptical lens)

DMX CHANNELS

Ch1	**Strobo/Shutter**	Various shutter effects (strobe, random-strobe, pulse, at various speeds).
Ch2	**Dimmer**	Linear 0-100% regulation of luminous intensity.
Ch3	**Red**	Linear 0-100% regulation of red saturation.
Ch4	**Green**	Linear 0-100% regulation of green saturation.
Ch5	**Blue**	Linear 0-100% regulation of blue saturation.
Ch6	**CTC**	Linear 0-100% regulation of colour temperature.
Ch7	**Macro**	Various scenes with preset colour effects.
Ch8	**Colour Mode**	Customizable white balance.

HOTEL CENTRAL
CITY

Palco 3 Mobile

PALCO 3 MOBILE

The stylish lines, functionality, energy saving and absolute running silence of the PALCO 3 are combined with the ability to be aimed, thanks to the pan and tilt feature of the **PALCO 3 MOBILE** version.
PALCO 3 MOBILE is fitted with absolute encoders, so when reset it doesn't run any repositioning procedure, but immediately goes to the required position.
It is absolutely silent because it has no fans or cooling system.
PALCO 3 MOBILE's features make it the perfect choice for replacing halogen colourchangers with pan and tilt movement in all television and theatre applications.

01: Control

PALCO 3 MOBILE functions can be controlled via USITT Standard DMX 512 serial digital signal or RS 232 serial signal. **PALCO 3 MOBILE** transmits and receives on **13 DMX channels**.

02: Function menu

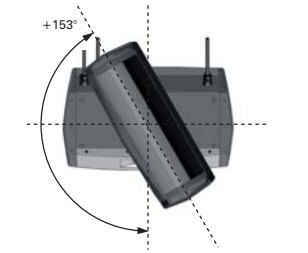
PALCO 3 MOBILE has a multi-function menu which is used to:

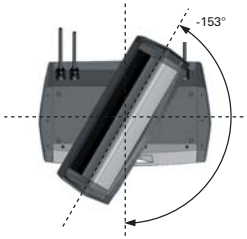
- configure fixtures according to requirements
- input "standalone" programs
- perform self-tests
- report operational status information.

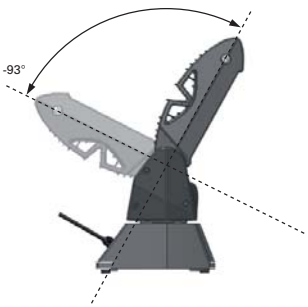
The menu is accessed by means of a user-friendly interface with a 10-digit display. The on-board software can be upgraded via DMX.

03: Colour / Colour temperature

Additive RGB colour mixing, obtained using a matrix of **24 red, 18 green and 7 blue LEDs**, offers an endless range of colour combinations, from the deepest to the softest colours, with an effective control of their tone.
Colour temperature is **6.000°K** and can be varied in a linear manner, directly on the fixture, according to needs.







04: Interchangeable lenses

PALCO 3 MOBILE's luminosity is very high **2.800 Lumens** is currently unparalleled in the LED lighting sector. The five inter-changeable lenses (8°, 25°, 40°, elliptical 10° x 22° vertical and horizontal) offer various projection angles and allow **PALCO 3 MOBILE** fixtures to be used at different distances from the objects to be illuminated.

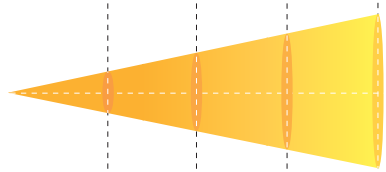
05: Installation

PALCO 3 MOBILE has unusual, particularly stylish lines that enable it to discreetly fit into the surroundings and harmonically adapt to the architectural elements and settings to be lit.
PALCO 3 MOBILE is preset for various types of installation:

- Floor or wall-mounted by means of four holes on its base, using M6 screws.
- Flown from trussing - even upside down - (by fitting a clamp to the four Fast-Lock holes on its base).
- Floor-standing (on flat surfaces), maintaining utmost stability with any head angle.

PALCO 3 MOBILE head can be inclined vertically or horizontally, in order to best adapt to the areas and architectural elements to be illuminated.
Pan: 0° - 305°; Tilt: +0° / -93°.
The movement con be controlled via DMX or via a dedicated IR control unit.

PALCO 3 MOBILE
Total Lumen 2.800

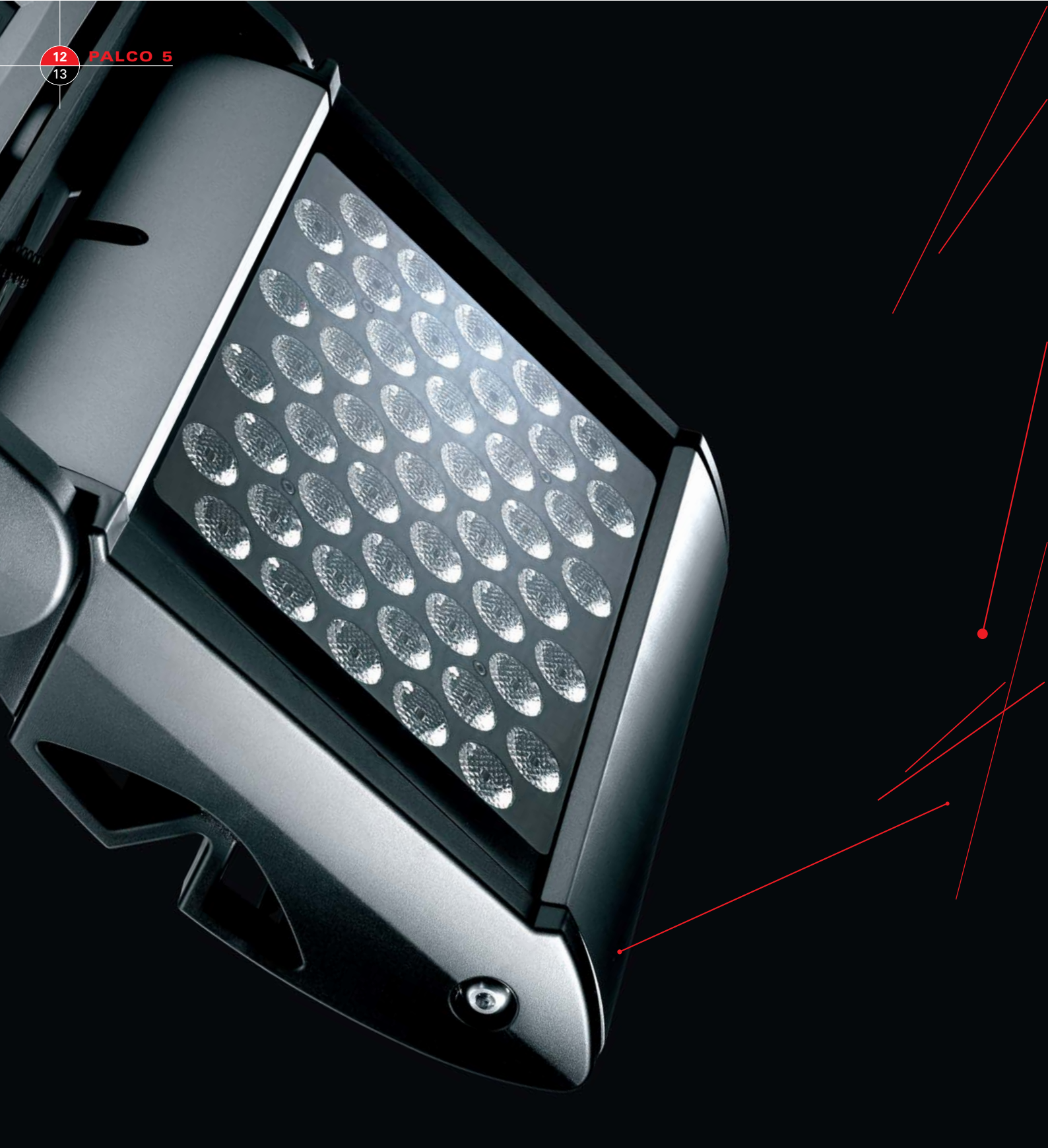


		2 mt 6.56 ft	5 mt 16.40 ft	10 mt 32.81 ft	15 mt 49,21 ft
8°	**Lux center** (boost on)	13600	2240	560	249
	Foot candles (boost on)	8500	1400	350	156
	Lux center (boost off)	12240	2016	504	224
	Foot candles (boost off)	7650	1260	315	140
	Field size (m)	0,35	0,87	1,75	2,62
	Field size (ft)	1,15	2,87	5,74	8,61
25°	**Lux center** (boost on)	2400	440	110	49
	Foot candles (boost on)	1500	275	69	31
	Lux center (boost off)	2160	396	99	44
	Foot candles (boost off)	1350	248	62	28
	Field size (m)	0,89	2,22	4,43	6,65
	Field size (ft)	2,91	7,27	14,55	21,82
40°	**Lux center** (boost on)	864	163	41	18
	Foot candles (boost on)	540	102	26	11
	Lux center (boost off)	778	147	37	16
	Foot candles (boost off)	486	92	23	10
	Field size (m)	1,68	4,20	8,39	12,59
	Field size (ft)	5,51	13,76	27,53	41,29
10° X 22°	**Lux center** (boost on)	5840	963	241	107
	Foot candles (boost on)	3650	602	151	67
	Lux center (boost off)	5256	867	217	96
	Foot candles (boost off)	3285	542	135	60
	Field size axys A (m)	0,35	0,88	1,76	2,64
	Field size axys A (ft)	1,16	2,89	5,79	8,68
	Field size axys B (m)	0,81	2,02	4,04	6,06
	Field size axys B (ft)	2,66	6,63	13,26	19,88

SPECIFICATIONS	PALCO 3 MOBILE
Colour mixing	RGB
Luxeon Blue LEDs	7 3W
Luxeon Green LEDs	18 3W
Luxeon Red LEDs	24 1W
Luminous flux	2.800 Lumens
Colour temperature	6.000 °K (variable)
Consumption	180W
LEDs life (hours)	100.000 at maximum power
Interchangeable lenses	8°, 25°, 40° Elliptical 10°x22° vertical Elliptical 10°x22° horizontal
Power supply full range	AC 90-270V, 50-60Hz
DMX channels	13
Interface	LED display 3 buttons
Internal microcomputer	Large function menu. Software updatable via DMX
Pan	0° - 305°
Tilt	0° - 93°
Motorized Pan e Tilt	Motorized Pan e Tilt. Movement controlled via a dedicated IR control unit or DMX.
Insulation degree	IP 33
Dimensions cm (LxDxH)	48,5 x 37,5 x 22,9
Weight Kg	15,5
Codes	**020_2750** (with 8° lens) **020_2752** (with 25° lens) **020_2754** (with 40° lens) **020_2756** (with 10°x22° vertical elliptical lens) **020_2758** (with 10°x22° horizontal elliptical lens)

DMX CHANNELS

Ch1	**Strobo/Shutter**	Various shutter effects (strobe, random-strobe, pulse, at various speeds).
Ch2	**Dimmer**	Linear 0-100% regulation of luminous intensity.
Ch3	**Red**	Linear 0-100% regulation of red saturation.
Ch4	**Green**	Linear 0-100% regulation of green saturation.
Ch5	**Blue**	Linear 0-100% regulation of blue saturation.
Ch6	**CTC**	Linear 0-100% regulation of colour temperature.
Ch7	**Macro**	Various scenes with preset colour effects.
Ch8	**Colour Mode**	Customizable white balance.
Ch9	**Pan - H**	8 bit.
Ch10	**Pan - L**	16 bit.
Ch11	**Tilt - H**	8 bit.
Ch12	**Tilt - L**	16 bit.
Ch13	**M Speed**	Movement speed.



PALCO 5

As well as all the aesthetic, mechanical and applicative features of Palco 3, **PALCO 5** has the added advantage of being able to offer twice the luminous power when necessary.
In fact, **PALCO 5** has been fitted with a new very powerful type of LED (the K2), thanks to which, compared to other SGM LED LINE models, it is able to ensure considerable luminosity with decidedly limited energy consumption.
PALCO 5 is also fitted as standard with a **DMX wireless connection**: thanks to **AFHSS-based technology**, it can recognize transmission signals within a radius of **over 500 metres**. From the point of view of optics, it offers the same choice of interchangeable lenses, which easily adapt to the various types of surfaces and objects to be illuminated.
PALCO 5 therefore shows that it is an extremely specific fixture, when it's necessary to illuminate large walls or cover longer distances.

01: Control

PALCO 5 functions can be controlled via USITT Standard DMX 512 serial digital signal or RS 232 serial signal. **PALCO 5** transmits and receives on 8 DMX channels.

02: Function menu

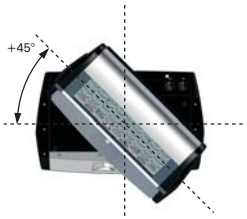
PALCO 5 has a multi-function menu which is used to:

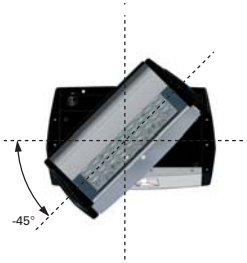
- configure fixtures according to requirements
- input "standalone" programs
- perform self-tests
- report operational status information.

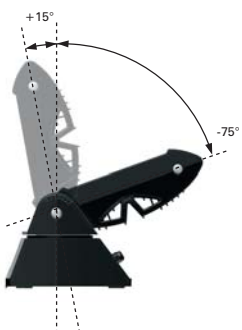
The menu is accessed by means of a user-friendly interface with a 10-digit display. The on-board software can be upgraded via DMX.

03: Colour / Colour temperature

Additive RGB colour mixing, obtained using a matrix of **13 red, 24 green and 12 blue LEDs**, offers an endless range of colour combinations, from the deepest to the softest colours, with an effective control of their tone.
Colour temperature is **6,500°K** and can be varied in a linear manner, directly on the fixture, according to needs.







04: Interchangeable lenses

PALCO 5's luminosity is very high 4.500 lumens is currently unparalleled in the LED lighting sector.
The five interchangeable lenses (8°, 25°, 40°, elliptical 10° x 22° vertical and horizontal) offer various projection angles and allow **PALCO 5** fixtures to be used at different distances from the objects to be illuminated.

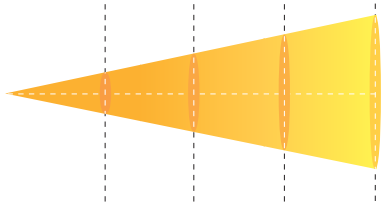
05: Installation

PALCO 5 has unusual, particularly stylish lines that enable it to discreetly fit into the surroundings and harmonically adapt to the architectural elements and settings to be lit.
For optimum installation flexibility, the unit's head can be removed from the rest of the body.
PALCO 5 is preset for various types of installation:

- Floor or wall-mounted by means of four holes on its base, using M6 screws.
- Flown from trussing – even upside down (by fitting a clamp to the four Fast-Lock holes on its base).
- Floor-standing (on flat surfaces), maintaining utmost stability with any head angle.

PALCO 5 is suited to indoor and outdoor installation, as it's protected to **IP55.**
PALCO 5's head can be inclined vertically or horizontally, in order to best adapt to the areas and architectural elements to be illuminated. **Pan: +/- 45°; Tilt: +15° / -75°.**

PALCO 5 - Total Lumen 4.500

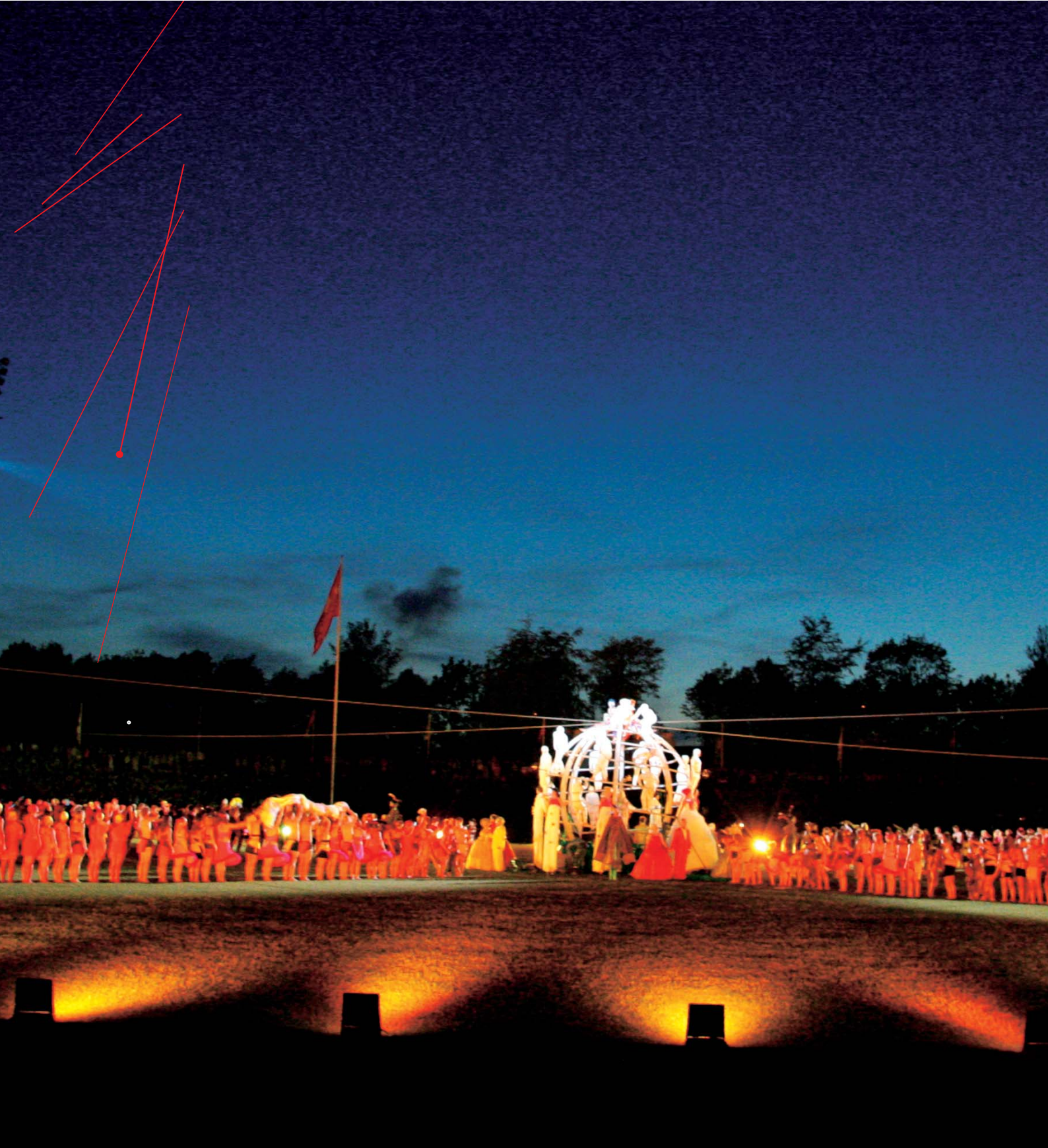


		2 mt 6.56 ft	5 mt 16.40 ft	10 mt 32.81 ft	15 mt 49,21 ft
8°	**Lux center** (boost on)	13145	3346	837	372
	Foot candles (boost on)	1221	311	78	35
	Field size (m)	0,35	0,87	1,75	2,62
	Field size (ft)	1,15	2,87	5,74	8,61
25°	**Lux center** (boost on)	3585	657	164	73
	Foot candles (boost on)	333	61	15	7
	Field size (m)	0,89	2,22	4,43	6,65
	Field size (ft)	2,91	7,27	14,55	21,82
40°	**Lux center** (boost on)	1291	244	61	27
	Foot candles (boost on)	120	23	6	3
	Field size (m)	1,68	4,20	8,39	12,59
	Field size (ft)	5,51	13,76	27,53	41,29
10° x 22°	**Lux center** (boost on)	8724	1439	360	160
	Foot candles (boost on)	810	134	33	15
	Field size axys A (m)	0,35	0,88	1,76	2,64
	Field size axys A (ft)	1,16	2,89	5,79	8,68
	Field size axys B (m)	0,81	2,02	4,04	6,06
	Field size axys B (ft)	2,66	6,63	13,26	19,88

SPECIFICATIONS	PALCO 5
Colour mixing	RGB
K2 Blue LEDs	12 4,5W
K2 Green LEDs	24 4,5W
K2 Red LEDs	13 4,5W
Luminous flux	4.500 Lumens
Colour temperature	6.500 °K (variable)
Consumption	220W
LEDs life (hours)	50.000 at maximum power
Interchangeable lenses	8°, 25°, 40° Elliptical 10°x22° vertical Elliptical 10°x22° horizontal
Power supply full range	AC 90-270V, 50-60Hz
DMX channels	8 - Wireless DMX interface as standard - Outdoor antenna and extension cable as standard
Interface	LED display 3 buttons
Internal microcomputer	Large function menu. Software updatable via DMX
Pan	+/- 45°
Tilt	+15°, - 75°
Insulation degree	IP55
Dimensions cm (LxDxH)	42,5 x 37,5 x 22,9
Weight Kg	13,5
Codes	**020_2426** (with 8° lens) **020_2428** (with 25° lens) **020_2429** (with 40° lens) **020_2427** (with 10°x22° vertical elliptical lens) **020_2430** (with 10°x22° horizontal elliptical lens)

DMX CHANNELS

Ch1	**Strobo/Shutter**	Various shutter effects (strobe, random-strobe, pulse, at various speeds).
Ch2	**Dimmer**	Linear 0-100% regulation of luminous intensity.
Ch3	**Red**	Linear 0-100% regulation of red saturation.
Ch4	**Green**	Linear 0-100% regulation of green saturation.
Ch5	**Blue**	Linear 0-100% regulation of blue saturation.
Ch6	**CTC**	Linear 0-100% regulation of colour temperature.
Ch7	**Macro**	Various scenes with preset colour effects.
Ch8	**Colour Mode**	Customizable white balance.



RIBALTA

Spectacular lighting for large surfaces requires special fixtures, whose design and performance have been studied to ensure the utmost reliability and best artistic results.
SGM's RIBALTA has no less than **90 high-power Luxeon LEDs** laid out in three horizontal rows: this incredible luminous power, along with the practical shape and the possibility of using **interchangeable lenses** make it ideal for a vast range of applications.
RIBALTA is perfect for indoor use (museums, art galleries, libraries, television studios, etc.) and in particular for outdoors (architectural lighting on municipal sites, monuments, buildings, etc.), thank to its **protection to IP65** and to a special **asymmetric lens** designed to ensure even lighting coverage of walls and other long surfaces.
RIBALTA can be remote controlled via a dedicated IR control unit. For optimum installation flexibility, the unit's head can be removed from the rest of the body.

Control

RIBALTA functions can be controlled via USITT Standard DMX 512 serial digital signal or RS 232 serial signal.
RIBALTA transmits and receives on **8 DMX channels.**

Function menu

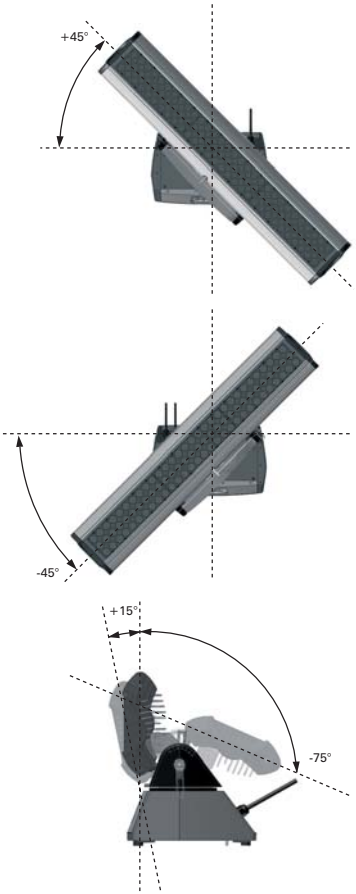
RIBALTA has a multi-function menu which is used to:

- configure fixtures according to requirements
- input "standalone" programs
- perform self-tests
- report operational status information.

The menu is accessed by means of a user-friendly interface with a 10-digit display. The on-board software can be upgraded via DMX.

Colour / Colour temperature

Additive RGB colour mixing, obtained using a matrix of **30 red, 30 green and 30 blue LEDs**, offers an endless range of colour combinations, from the deepest to the softest colours, with an effective control of their tone.
Colour temperature is **6.500°K** and can be varied in a linear manner, directly on the fixture, according to needs.



04: Installation

RIBALTA has unusual, particularly stylish lines that enable it to discreetly fit into the surroundings and harmonically adapt to the architectural elements and settings to be lit. **For optimum installation flexibility, the unit's head can be removed from the rest of the body.**

RIBALTA is preset for various types of installation:

- Floor or wall-mounted by means of four holes on its base, using M6 screws.
- Flown from trussing - even upside down - (by fitting a clamp to the four Fast-Lock holes on its base).
- Floor-standing (on flat surfaces), maintaining utmost stability with any head angle.

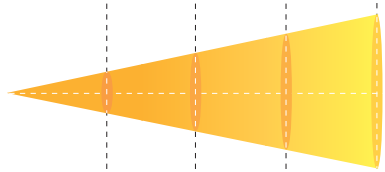
RIBALTA is suited to indoor and outdoor installation, as it's protected to **IP65**.

RIBALTA's head can be inclined vertically or horizontally, in order to best adapt to the areas and architectural elements to be illuminated.
Pan: +/- 45°; Tilt: +15° / -75°.

05: Interchangeable lenses

RIBALTA's luminosity is very high **3.500** Lumens is currently unparalleled in the LED lighting sector.
The interchangeable lenses (8°, asymmetric 30°, elliptical 10° x 22°) offer various projection angles and allow **RIBALTA** fixtures to be used at different distances from the objects to be illuminated.

RIBALTA
Total Lumen 3.500



		2 mt 6.56 ft	5 mt 16.40 ft	10 mt 32.81 ft	15 mt 49,21 ft
8° as.	**Lux center**	11250	2938	735	326
	Foot candles	1045,2	273,0	68,2	30,3
	Field size (m)	0,28	0,70	1,40	2,10
	Field size (ft)	0,92	2,29	4,59	6,88
30° as.	**Lux center**	6188	1175	294	131
	Foot candles	574,8	109,2	27,3	12,1
	Field size (m)	0,89	2,22	4,43	6,65
	Field size (ft)	2,91	7,27	14,55	21,82
90° x 10°	**Lux center**	1851	296	74	33
	Foot candles	171,9	27,5	6,9	3,1
	Field size axys A (m)	1,2	3,2	6,4	13,0
	Field size axys A (ft)	3,94	10,50	21,00	42,65
	Field size axys B (m)	0,30	0,50	1,10	2,20
	Field size axys B (ft)	0,98	1,64	3,61	7,22

SPECIFICATIONS	RIBALTA
Colour mixing	RGB
Luxeon Blue LEDs	30 1W
Luxeon Green LEDs	30 3W
Luxeon Red LEDs	30 1W
Luminous flux	3.500 Lumens
Colour temperature	6.500 °K (variable)
Consumption	180W
LEDs life (hours)	100.000 at maximum power
Interchangeable lenses	Asymmetric 8°, 30° Elliptical 10°x90°
Power supply full range	AC 90-270V, 50-60Hz
DMX channels	8
Interface	LED display 3 buttons
Internal microcomputer	Large function menu. Software updatable via DMX
Pan	+/- 45°
Tilt	+15°, - 75°
Insulation degree	IP65
Dimensions cm (LxDxH)	31 x 97 x 22,9
Weight Kg	16
Codes	**020_2712** (with 8° asymmetric lens) **020_2700** (with 30° asymmetric lens) **020_2714** (with 10°x90° elliptical lens)

DMX CHANNELS

Ch1	**Strobo/Shutter**	Various shutter effects (strobe, random-strobe, pulse, at various speeds).
Ch2	**Dimmer**	Linear 0-100% regulation of luminous intensity.
Ch3	**Red**	Linear 0-100% regulation of red saturation.
Ch4	**Green**	Linear 0-100% regulation of green saturation.
Ch5	**Blue**	Linear 0-100% regulation of blue saturation.
Ch6	**CTC**	Linear 0-100% regulation of colour temperature.
Ch7	**Macro**	Various scenes with preset colour effects
Ch8	**Colour Mode**	Customizable white balance.

Ribalta
31 cm
97 cm
22,9 cm

GENIO

GENIO is an extremely reliable high-tech colour-changing fixture able to ensure even, perfectly controllable wash lighting, generated by **16** high-power **K2 LEDs**.
Thanks to its compact low-impact dimensions, GENIO is excellent for dynamic interior lighting for commercial applications such shops, hotels, bars and restaurants, as well as art galleries and meeting rooms. Its protection to **IP65** also enables it to be used for outdoor architectural illumination, such as urban sites, monuments, fountains and cruise liners.
To ensure the utmost flexibility when creating lighting effects, it is available with three interchangeable lenses: 8°, 25° and 40°.
GENIO can be remote controlled via a dedicated IR control unit.

01:: Control

GENIO functions can be controlled via USITT Standard DMX 512 serial digital signal or RS 232 serial signal.
GENIO transmits and receives on **8 DMX channels**.

02:: Function menu

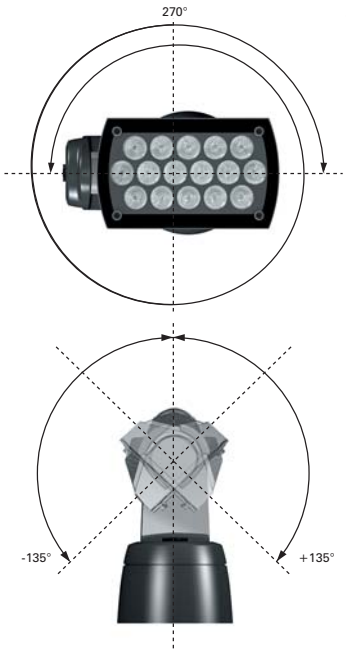
GENIO features a comprehensive function menu, which enables to:

- configure the fixture according to requirements
- program scenes and on-board calendar, in order to use the fixture without a console
- test fixture components
- obtain information on fixture operation.

GENIO has no display or buttons.
Access to the fixture's internal functions is possible via RDM protocol.

03:: Colour / Colour temperature

Additive RGB colour mixing, obtained using a matrix of **4 red, 8 green and 4 blue LEDs**, offers an endless range of colour combinations, from the deepest to the softest colours, with an effective control of their tone.
Colour temperature is **6,000°K** and can be varied in a linear manner, directly on the fixture, according to needs.



04: Installation

GENIO has unusual, particularly stylish lines that enable it to discreetly fit into the surroundings and harmonically adapt to the architectural elements and settings to be lit.

GENIO is preset for various types of installation:

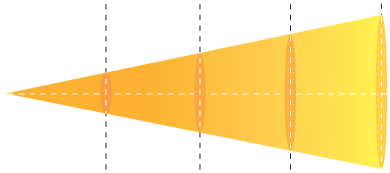
- Floor or wall-mounted by means of four holes on its base, using M6 screws.
- Flown from trussing- even upside down (by fitting a clamp to the two Fast-Lock holes on its base).
- Floor-standing (on flat surfaces), maintaining utmost stability with any head angle.

GENIO is suited to indoor and outdoor installation, as it's protected to **IP65. GENIO** head and support arm can be inclined vertically and horizontally, in order to best adapt to the areas and architectural elements to be illuminated. **Pan: +/- 135°; Tilt: +/-135°.**

05: Interchangeable lenses

GENIO's luminosity is very high **1.500** Lumens is currently unparalleled in the LED lighting sector.
The interchangeable lenses **(8°, 25° and 40°)** offer various projection angles and allow **GENIO** fixtures to be used at different distances from the objects to be illuminated.

GENIO
Total Lumen 1.500



		2 mt 6.56 ft	5 mt 16.40 ft	10 mt 32.81 ft	15 mt 49,21 ft
8°	**Lux center**	7581	1213	303	135
	Foot candles	704,3	112,7	28,2	12,5
	Field size (m)	0,35	0,87	1,75	2,62
	Field size (ft)	1,15	2,87	5,74	8,61
25°	**Lux center**	1538	246	62	27
	Foot candles	142,9	22,9	5,7	2,5
	Field size (m)	0,89	2,22	4,43	6,65
	Field size (ft)	2,91	7,27	14,55	21,82
40°	**Lux center**	664	106	27	12
	Foot candles	61,7	9,9	2,5	1,1
	Field size (m)	1,46	3,64	7,28	10,92
	Field size (ft)	4,78	11,94	23,88	35,82

SPECIFICATIONS	GENIO
Colour mixing	RGB
K2 Blue LEDs	4 4,5W
K2 Green LEDs	8 4,5W
K2 Red LEDs	4 3W
Luminous flux	1.500 Lumens
Colour temperature	6.000 °K (variable)
Consumption	70W
LEDs life (hours)	100.000 at maximum power
Interchangeable lenses	8°, 25° and 40° (not included)
Power supply full range	AC 90-270V, 50-60Hz
DMX channels	8 RDM protocol (for internal functions setting)
Interface	via RDM
Internal microcomputer	Software updatable via DMX
Pan	+/- 135°
Tilt	+/- 135°
Insulation degree	IP65
Dimensions cm (LxDxH)	24 x 24 x 11,8
Weight Kg	4
Codes	**020_2772**

DMX CHANNELS

Ch1	**Strobo/Shutter**	Various shutter effects (strobe, random-strobe, pulse, at various speeds).
Ch2	**Dimmer**	Linear 0-100% regulation of luminous intensity.
Ch3	**Red**	Linear 0-100% regulation of red saturation.
Ch4	**Green**	Linear 0-100% regulation of green saturation.
Ch5	**Blue**	Linear 0-100% regulation of blue saturation.
Ch6	**CTC**	Linear 0-100% regulation of colour temperature.
Ch7	**Macro**	Various scenes with preset colour effects.
Ch8	**Colour Mode**	Customizable white balance.

Mobile
GENIO MOBILE
PROGRAMMER
enter
down
up

GENIO MOBILE

Compact, agile and able to ensure even, perfectly controllable wash lighting generated by **16** high-power **K2 LEDs**.
All this is offered by **SGM**'s **GENIO MOBILE**, a reliable high-tech colour-changing fixture with features that make it ideal for applications in buildings, museum, art galleries and shopping centres.
Thanks to its **motorized Pan** and **Tilt** and to protection to **IP65**, **GENIO MOBILE** is also a practical, flexible unit, so indispensable for theatre and TV lighting pros, as well as ideal for photographic studios.
GENIO MOBILE can be remote controlled via a dedicated IR control unit.

01:: Control

GENIO MOBILE functions can be controlled via USITT Standard DMX 512 serial digital signal or RS 232 serial signal. **GENIO MOBILE** transmits and receives on **13 DMX channels**.

02:: Function menu

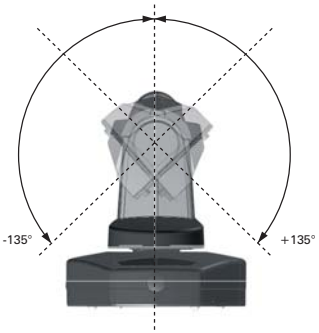
GENIO MOBILE has a multi-function menu which is used to:

- configure fixtures according to requirements
- input "standalone" programs
- perform self-tests
- report operational status information.

The menu is accessed by means of a user-friendly interface with a 16-digit display.
The on-board software can be upgraded via DMX.

03:: Colour / Colour temperature

Additive RGB colour mixing, obtained using a matrix of **4 red, 8 green and 4 blue LEDs**, offers an endless range of colour combinations, from the deepest to the softest colours, with an effective control of their tone.
Colour temperature is **6.000°K** and can be varied in a linear manner, directly on the fixture, according to needs.



04: Installation

GENIO MOBILE has unusual, particularly stylish lines that enable it to discreetly fit into the surroundings and harmonically adapt to the architectural elements and settings to be lit.

GENIO MOBILE is preset for various types of installation:

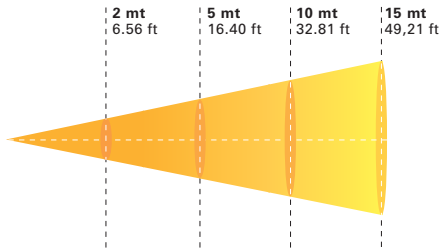
- Floor or wall-mounted by means of four holes on its base, using M6 screws.
- Flown from trussing - even upside down - (by fitting a clamp to the two Fast-Lock holes on its base).
- Floor-standing (on flat surfaces), maintaining utmost stability with any head angle.

GENIO MOBILE is suited to indoor and outdoor installation, as it's protected to **IP65**. **GENIO MOBILE**'s head can be inclined vertically or horizontally, in order to best adapt to the areas and architectural elements to be illuminated. **Pan: 540; Tilt: 270°.**
The movement con be controlled via DMX or via a dedicated IR control unit.

05: Interchangeable lenses

GENIO MOBILE's luminosity is very high **1.500** Lumens is currently unparalleled in the LED lighting sector.
The interchangeable lenses **(8°, 25° and 40°)** offer various projection angles and allow **GENIO MOBILE** fixtures to be used at different distances from the objects to be illuminated.

GENIO MOBILE
Total Lumen 1.500



		2 mt	5 mt	10 mt	15 mt
8°	**Lux center**	7581	1213	303	135
	Foot candles	704,3	112,7	28,2	12,5
	Field size (m)	0,35	0,87	1,75	2,62
	Field size (ft)	1,15	2,87	5,74	8,61
25°	**Lux center**	1538	246	62	27
	Foot candles	142,9	22,9	5,7	2,5
	Field size (m)	0,89	2,22	4,43	6,65
	Field size (ft)	2,91	7,27	14,55	21,82
40°	**Lux center**	664	106	27	12
	Foot candles	61,7	9,9	2,5	1,1
	Field size (m)	1,46	3,64	7,28	10,92
	Field size (ft)	4,78	11,94	23,88	35,82

SPECIFICATIONS	GENIO MOBILE
Colour mixing	RGB
K2 Blue LEDs	4 4,5W
K2 Green LEDs	8 4,5W
K2 Red LEDs	4 3W
Luminous flux	1.500 Lumens
Colour temperature	6.000 °K (variable)
Consumption	70W
LEDs life (hours)	100.000 at maximum power
Interchangeable lenses	8°, 25° and 40° (not included)
Power supply full range	AC 90-270V, 50-60Hz
DMX channels	13
Interface	LCD display 3 buttons
Internal microcomputer	Large function menu. Software updatable via DMX
Pan	540°
Tilt	270°
Motorized Pan and Tilt	Motorized Pan and Tilt. Movement controlled via a dedicated IR control unit or DMX.
Insulation degree	IP 65
Dimensions cm (LxDxH)	24 x 26 x 30
Weight Kg	6,5
Codes	**020_2780**

DMX CHANNELS

Ch1	**Strobo/Shutter**	Various shutter effects (strobe, random-strobe, pulse, at various speeds).
Ch2	**Dimmer**	Linear 0-100% regulation of luminous intensity.
Ch3	**Red**	Linear 0-100% regulation of red saturation.
Ch4	**Green**	Linear 0-100% regulation of green saturation.
Ch5	**Blue**	Linear 0-100% regulation of blue saturation.
Ch6	**CTC**	Linear 0-100% regulation of colour temperature.
Ch7	**Macro**	Various scenes with preset colour effects.
Ch8	**Colour Mode**	Customizable white balance.
Ch9	**Pan - H**	8 bit.
Ch10	**Pan - L**	16 bit.
Ch11	**Tilt - H**	8 bit.
Ch12	**Tilt - L**	16 bit.
Ch13	**M Speed**	Movement speed.

SGM WHITE LED

LED lighting becomes even more specialized with **White LED**.
Thanks to a matrix of **amber LEDs** and **white LEDs**, it is possible to accurately recreate the fluctuation and nuances of **natural daylight**.
The LED Line fixtures, in White LED format, are a valuable support for all lighting designers who want to reproduce **sophisticated white light effects** for indoor and outdoor applications. In fact, it is possible to obtain all the tones, from the warmest to the coolest white, between **2,000°K** and **6,700°K**, by just setting the power of the amber coloured LEDs at different levels.
White colour temperature is adjustable without loss of luminous efficiency as happens on the other hand with discharge lamps.
The new White LED fixtures offer a combination of SGM's high-tech expertise and all the typical qualities of the SGM LED Line, such as exceptional design and extraordinary brightness.

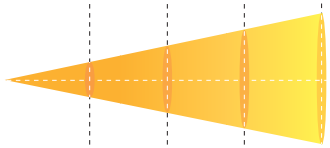
PALCO 3 WHITE LED

PALCO 3 WHITE LED has all the aesthetic, mechanical and applicative features of Palco 3.

Temperature colour between 2,000°K and 6.700°K, obtained with a LED matrix: 25 whites and 24 ambers, ensures unlimited possibilities of tones of white, from the warmest the coolest. Linear temperature colour adjustment can be carried out directly on the fixture, according to requirements.

SPECIFICATIONS	PALCO 3 WHITE LED
Luxeon Amber LEDs	24 3W
P4 Seoul White LEDs	25 4W
Luminous flux	3.800 Lumens
Colour temperature	2.000 - 6.700 °K (variable)
Consumption	180W
LEDs life (hours)	100.000 at maximum power
Interchangeable lenses	8°, 25°, 40° Elliptical 10°x22° vertical Elliptical 10°x22° horizontal
Power supply full range	AC 90-270V, 50-60Hz
DMX channels	8
Interface	LED display 3 buttons
Internal microcomputer	Large function menu. Software updatable via DMX
Pan	+/- 45°
Tilt	+15°, - 75°
Insulation degree	IP65
Dimensions cm (LxDxH)	42,5 x 37,5 x 22,9
Weight Kg	13,5
Codes	**020_2922** (with 8° lens) **020_2924** (with 25° lens) **020_2926** (with 40° lens) **020_2928** (with 10°x22° vertical elliptical lens) **020_2930** (with 10°x22° horizontal elliptical lens)

PALCO 3 WHITE LED
Total Lumen 3.800



		2 mt 6.56 ft	5 mt 16.40 ft	10 mt 32.81 ft	15 mt 49,21 ft
8°	**Lux center** (boost on)	10450	2660	665	296
	Foot candles (boost on)	971	247	62	27
	Lux center (boost off)	14535	2394	599	266
	Foot candles (boost off)	1350	222	56	25
	Field size (m)	0,35	0,87	1,75	2,62
	Field size (ft)	1,15	2,87	5,74	8,61
25°	**Lux center** (boost on)	2850	523	131	58
	Foot candles (boost on)	265	49	12	5
	Lux center (boost off)	2565	470	118	52
	Foot candles (boost off)	238	44	11	5
	Field size (m)	0,89	2,22	4,43	6,65
	Field size (ft)	2,91	7,27	14,55	21,82
40°	**Lux center** (boost on)	1026	194	48	22
	Foot candles (boost on)	95	18	5	2
	Lux center (boost off)	923	174	44	19
	Foot candles (boost off)	86	16	4	2
	Field size (m)	1,68	4,20	8,39	12,59
	Field size (ft)	5,51	13,76	27,53	41,29
10° X 22°	**Lux center** (boost on)	6935	1144	286	127
	Foot candles (boost on)	644	106	27	12
	Lux center (boost off)	6242	1029	257	114
	Foot candles (boost off)	580	96	24	11
	Field size axys A (m)	0,35	0,88	1,76	2,64
	Field size axys A (ft)	1,16	2,89	5,79	8,68
	Field size axys B (m)	0,81	2,02	4,04	6,06
	Field size axys B (ft)	2,65	6,63	13,26	19,88

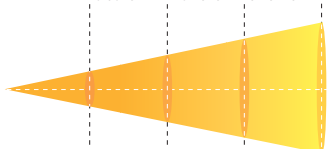
PALCO 5 WHITE LED

PALCO 5 WHITE LED has all the aesthetic, mechanical and applicative features of Palco 5.

Temperature colour between 2,000°K and 6,700°K, obtained with a LED matrix: 36 whites and 13 ambers, ensures unlimited possibilities of tones of white, from the warmest the coolest. Linear temperature colour adjustment can be carried out directly on the fixture, according to requirements.

SPECIFICATIONS	PALCO 5 WHITE LED
K2 Amber LEDs	13 3W
P4 Seoul White LEDs	36 4,5W
Luminous flux	4.800 Lumens
Colour temperature	2.000 - 6.700 °K (variable)
Consumption	220W
LEDs life (hours)	50.000 at maximum power
Interchangeable lenses	8°, 25°, 40° Elliptical 10°x22° vertical Elliptical 10°x22° horizontal
Power supply full range	AC 90-270V, 50-60Hz
DMX channels	8 - DMX 512 input signal - Wireless DMX interface as standard - Outdoor antenna and extension cable as standard
Interface	LED display 3 buttons
Internal microcomputer	Large function menu. Software updatable via DMX
Pan	+/- 45°
Tilt	+15°, -75°
Insulation degree	IP55
Dimensions cm (LxDxH)	42,5 x 37,5 x 22,9
Weight Kg	13,5
Codes	**020_2444** (with 8° lens) **020_2443** (with 25° lens) **020_2446** (with 40° lens) **020_2447** (with 10°x22° vertical elliptical lens) **020_2448** (with 10°x22° horizontal elliptical lens)

PALCO 5 WHITE LED
Total Lumen 4.800



		2 mt 6.56 ft	5 mt 16.40 ft	10 mt 32.81 ft	15 mt 49,21 ft
8°	**Lux center** (boost on)	14125	3955	989	439
	Foot candles (boost on)	1312	367	92	41
	Lux center (boost off)	13005	2142	536	238
	Field size (m)	0,35	0,87	1,75	2,62
	Field size (ft)	1,15	2,87	5,74	8,61
25°	**Lux center** (boost on)	4238	777	194	86
	Foot candles (boost on)	394	72	18	8
	Lux center (boost off)	2295	421	105	47
	Field size (m)	0,89	2,22	4,43	6,65
	Field size (ft)	2,91	7,27	14,55	21,82
40°	**Lux center** (boost on)	1526	288	72	32
	Foot candles (boost on)	142	27	7	3
	Field size (m)	1,68	4,20	8,39	12,59
	Field size (ft)	5,51	13,76	27,53	41,29
10° X 22°	**Lux center** (boost on)	10311	1701	425	189
	Foot candles (boost on)	958	158	39	18
	Field size axys A (m)	0,35	0,88	1,76	2,64
	Field size axys A (ft)	1,16	2,89	5,79	8,68
	Field size axys B (m)	0,81	2,02	4,04	6,06
	Field size axys B (ft)	2,65	6,63	13,26	19,88

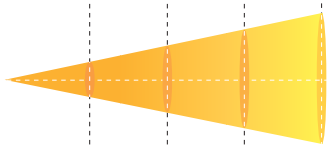
RIBALTA WHITE LED

RIBALTA WHITE LED has all the aesthetic, mechanical and applicative features of Ribalta.

Temperature colour between 2,000°K and 6,700°K, obtained with a LED matrix: 60 whites and 30 ambers, ensures unlimited possibilities of tones of white, from the warmest the coolest. Linear temperature colour adjustment can be carried out directly on the fixture, according to requirements.

SPECIFICATIONS	RIBALTA WHITE LED
Luxeon Amber LEDs	30 1W
P4 SEOUL White LEDs	60 3W
Luminous flux	4.200 Lumens
Colour temperature	2.000 - 6.700 °K (variable)
Consumption	180W
LEDs life (hours)	100.000 at maximum power
Interchangeable lenses	Asymmetric 8°, 30° Elliptical 10°x90°
Power supply full range	AC 90-270V, 50-60Hz
DMX channels	8
Interface	LED display 3 buttons
Internal microcomputer	Large function menu. Software updatable via DMX
Pan	+/- 45°
Tilt	+15°, -75°
Insulation degree	IP65
Dimensions cm (LxDxH)	31 x 97 x 22,9
Weight Kg	16
Codes	**020_2716** (with 8° asymmetric lens) **020_2715** (with 30° asymmetric lens) **020_2717** (with 10°x90° elliptical lens)

RIBALTA WHITE LED
Total Lumen 4.200



		2 mt 6.56 ft	5 mt 16.40 ft	10 mt 32.81 ft	15 mt 49,21 ft
8°	**Lux center** (boost on)	13500	3524	881	3952
	Foot candles (boost on)	1254,2	327,4	81,9	36,4
	Lux center (boost off)	13005	2142	536	238
	Field size (m)	0,28	0,70	1,40	2,10
	Field size (ft)	0,92	2,29	4,59	6,88
30°	**Lux center** (boost on)	7425	1410	352	157
	Foot candles (boost on)	689,8	131,0	32,7	14,6
	Lux center (boost off)	2295	421	105	47
	Field size (m)	0,89	2,22	4,43	6,65
	Field size (ft)	2,91	7,27	14,55	21,82
90° X 10°	**Lux center** (boost on)	2221	355	89	39
	Foot candles (boost on)	206,3	33,0	8,3	3,7
	Field size axys A (m)	1,2	3,2	6,4	13,0
	Field size axys A (ft)	3,94	10,50	1,10	2,20
	Field size axys B (m)	0,30	0,50	4,04	6,06
	Field size axys B (ft)	0,98	1,64	3,61	7,22

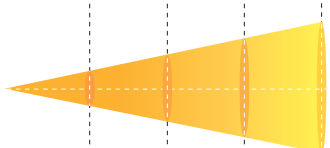
GENIO WHITE LED

GENIO WHITE LED has all the aesthetic, mechanical and applicative features of Genio.

Temperature colour between 2,000°K and 6,700°K, obtained with a LED matrix: 12 whites and 4 ambers, ensures unlimited possibilities of tones of white, from the warmest the coolest. Linear temperature colour adjustment can be carried out directly on the fixture, according to requirements.

SPECIFICATIONS	GENIO WHITE LED
K2 Amber LEDs	4 3W
P4 SEOUL White LEDs	12 4,5W
Luminous flux	1.800 Lumens
Colour temperature	2.000 - 6.700 °K (variable)
Consumption	70W
LEDs life (hours)	100.000 at maximum power
Interchangeable lenses	8°, 25° and 40° (not included)
Power supply full range	AC 90-270V, 50-60Hz
DMX channels	8, RDM protocol (for internal functions setting)
Interface	via RDM
Internal microcomputer	Software updatable via DMX
Pan	+/- 135°
Tilt	+/- 135°
Insulation degree	IP65
Dimensions cm (LxDxH)	24 x 24 x 11,8
Weight Kg	4
Codes	**020_2771**

GENIO WHITE LED
Total Lumen 1.800



		2 mt 6.56 ft	5 mt 16.40 ft	10 mt 32.81 ft	15 mt 49,21 ft
8°	**Lux center** (boost on)	9096	1455	364	162
	Foot candles (boost on)	845,0	135,2	33,8	15,0
	Field size (m)	0,35	0,87	1,75	2,62
	Field size (ft)	1,15	2,87	5,74	8,61
25°	**Lux center** (boost on)	1845	295	74	33
	Foot candles (boost on)	171,4	27,4	6,9	3,0
	Field size (m)	0,89	2,22	4,43	6,65
	Field size (ft)	2,91	7,27	14,55	21,82
40°	**Lux center** (boost on)	797	128	32	14
	Foot candles (boost on)	74,0	11,8	3,0	1,3
	Field size (m)	1,46	3,64	7,28	10,92
	Field size (ft)	4,78	11,94	23,88	35,82

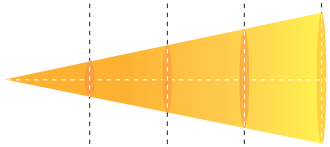
GENIO MOBILE WHITE LED

GENIO MOBILE WHITE LED has all the aesthetic, mechanical and applicative features of Genio Mobile.

Temperature colour between 2,000°K and 6,700°K, obtained with a LED matrix: 12 whites and 4 ambers, ensures unlimited possibilities of tones of white, from the warmest the coolest. Linear temperature colour adjustment can be carried out directly on the fixture, according to requirements.

SPECIFICATIONS	GENIO MOBILE WHITE LED
K2 Amber LEDs	4 3W
P4 SEOUL White LEDs	12 4,5W
Luminous flux	1.800 Lumens
Colour temperature	2.000 - 6.700 °K (variable)
Consumption	70W
LEDs life (hours)	100.000 at maximum power
Interchangeable lenses	8°, 25° and 40° (not included)
Power supply full range	AC 90-270V, 50-60Hz
DMX channels	13
Interface	LCD display 3 buttons
Internal microcomputer	Large function menu Software updatable via DMX
Pan	540°
Tilt	270°
Insulation degree	IP65
Dimensions cm (LxDxH)	24 x 26 x 30
Weight Kg	6,5
Codes	**020_2779**

GENIO MOBILE WHITE LED
Total Lumen 1.800



		2 mt 6.56 ft	5 mt 16.40 ft	10 mt 32.81 ft	15 mt 49,21 ft
8°	**Lux center** (boost on)	9096	1455	364	162
	Foot candles (boost on)	845,0	135,2	33,8	15,0
	Field size (m)	0,35	0,87	1,75	2,62
	Field size (ft)	1,15	2,87	5,74	8,61
25°	**Lux center** (boost on)	1845	295	74	33
	Foot candles (boost on)	171,4	27,4	6,9	3,0
	Field size (m)	0,89	2,22	4,43	6,65
	Field size (ft)	2,91	7,27	14,55	21,82
40°	**Lux center** (boost on)	797	128	32	14
	Foot candles (boost on)	74,0	11,8	3,0	1,3
	Field size (m)	1,46	3,64	7,28	10,92
	Field size (ft)	4,78	11,94	23,88	35,82

ACCESSORIES

LED LINE CONTROL
PALCO 3 - PALCO 5
PALCO 3 MOBILE
GENIO
GENIO MOBILE
RIBALTA

CODE
005_1171

LED LINE CONTROL
- IR remote control unit for all the colour changing projectors in the **LED Line**.
- On / Off.
- Adjustment of (RGB) colour mixing.
- Control of Macros, Programs, colour combinations (20 presets).
- Control and storage of Pan and Tiltt (Palco 3 Mobile, Genio Mobile).

FLIGHT CASE
PALCO 3 - PALCO 5
PALCO 3 MOBILE

DIMENSIONS (LxDxH)
54 x 76 x 46 cm (DOUBLE)
54 x 60 x 110 cm (QUADRUPLE)

WEIGHT
23 Kg (DOUBLE)
38 Kg (QUADRUPLE)

CODES
006_1762 (DOUBLE)
006_1721 (QUADRUPLE)
006_1731 (set wheels for flight case)

FLIGHT CASE PALCO
- The sturdy flight cases were specially designed for transporting and storing **LED Line** Colour-changing projectors **(Palco 3, Palco 5, Palco 3 Mobile)**, ensuring total protection against impact.
- The flight cases are fitted with internal accessory compartments.

FLIGHT CASE
RIBALTA

DIMENSIONS (LxDxH)
40 x 104 x 56 cm (DOUBLE)

WEIGHT
31 Kg (DOUBLE)

CODES
009_0806 (DOUBLE)
006_1731 (set wheels for flight case)

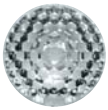
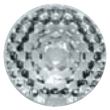
FLIGHT CASE RIBALTA
- The sturdy double flight cases were specially designed for transporting and storing **LED Line** Colour-changing projectors **RIBALTA**, ensuring total protection against impact.
- The flight cases are fitted with internal accessory compartments.

FLIGHT CASE
GENIO MOBILE

CODES
006_1783 (QUADRUPLE)
006_1731 (set wheels for flight case)

FLIGHT CASE GENIO MOBILE
- The sturdy quadruple flight cases were specially designed for transporting and storing **LED Line** Colour-changing projectors **GENIO MOBILE**, ensuring total protection against impact.
- The flight cases are fitted with internal accessory compartments.

LENSES

Interchangeable lenses	PALCO 3 PALCO 5 PALCO 3 WHITE LED PALCO 5 WHITE LED	PALCO 3 MOBILE	RIBALTA RIBALTA WHITE LED	GENIO GENIO WHITE LED	GENIO MOBILE GENIO MOBILE WHITE LED
8° lens CODE 020_2434			-		
25° lens CODE 020_2435			-		
40° lens CODE 020_2436			-		
10° x 22° vertical elliptical lens CODE 020_2490			-	-	-
10° x 22° horizontal elliptical lens CODE 020_2437			-	-	-
8° asymmetric lens CODE 020_2744	-	-		-	-
30° asymmetric lens CODE 020_2732	-	-		-	-
10° x 90° elliptical lens CODE 020_2746	-	-		-	-

	PALCO 3	PALCO 3 MOBILE	PALCO 5	RIBALTA	GENIO	GENIO MOBILE
LUMINOUS FLUX	7 Luxeon Blue LEDs - 3W 18 Luxeon Green LEDs - 3W 24 Luxeon Red LEDs - 1W Luminous flux 2.800 Lumens Colour temperature 6.000 °K (variable) Consumption 150W LEDs life 100.000 hours at maximum power	7 Luxeon Blue LEDs - 3W 18 Luxeon Green LEDs - 3W 24 Luxeon Red LEDs - 1W Luminous flux 2.800 Lumens Colour temperature 6.000 °K (variable) Consumption 180W LEDs life 100.000 hours at maximum power	12 K2 Blue LEDs - 4,5W 24 K2 Green LEDs - 4,5W 13 K2 Red LEDs - 4,5W Luminous flux 4.500 Lumens Colour temperature 6.500 °K (variable) Consumption 220W LEDs life 50.000 hours at maximum power	30 Luxeon Blue LEDs - 1W 30 Luxeon Green LEDs 3W 30 Luxeon Red LEDs - 1W Luminous flux 3.500 Lumens Colour temperature 6.500 °K (variable) Consumption 180W LEDs life 100.000 hours at maximum power	4 K2 Blue LEDs - 4,5W 8 K2 Green LEDs - 4,5W 4 K2 Red LEDs - 3W Luminous flux 1.500 Lumens Colour temperature 6.000 °K (variable) Consumption 60W LEDs life 100.000 hours at maximum power	4 K2 Blue LEDs - 4,5W 8 K2 Green LEDs - 4,5W 4 K2 Red LEDs - 3W Luminous flux 1.500 Lumens Colour temperature 6.000 °K (variable) Consumption 80W LEDs life 100.000 hours at maximum power
COLOUR MIXING	RGB colour mixing	RGB colour mixing	RGB colour mixing	RGB colour mixing	RGB colour mixing	RGB colour mixing
LENSES	- 8° LENS - 25° LENS - 40° LENS - ELLIPTICAL 10°X22° VERTICAL LENS - ELLIPTICAL 10°X22° HORIZONTAL LENS	- 8° LENS - 25° LENS - 40° LENS - ELLIPTICAL 10°X22° VERTICAL LENS - ELLIPTICAL 10°X22° HORIZONTAL LENS	- 8° LENS - 25° LENS - 40° LENS - ELLIPTICAL 10°X22° VERTICAL LENS - ELLIPTICAL 10°X22° HORIZONTAL LENS	- ASYMMETRIC 8° LENS - ASYMMETRIC 30° LENS - ELLIPTICAL 10°X90° LENS	- 8° LENS - 25° LENS - 40° LENS (not included)	- 8° LENS - 25° LENS - 40° LENS (not included)
PAN / TILT	Pan +/- 45° Tilt +15°, - 75°	Pan 0° - 305° Tilt 0° - 93° Motorized Pan and Tilt. Movement controlled via a dedicated IR control unit or DMX.	Pan +/- 45° Tilt +15°, - 75°	Pan +/- 45° Tilt +15°, - 75°	Pan +/- 135° Tilt +/- 135°	Pan 540° Tilt 270° Motorized Pan and Tilt. Movement controlled via a dedicated IR control unit or DMX.
POWER SUPPLY	AC 90-270V, 50-60Hz	AC 90-270V, 50-60Hz	AC 90-270V, 50-60Hz	AC 90-270V, 50-60Hz	AC 90-270V, 50-60Hz	AC 90-270V, 50-60Hz
DMX CHANNELS	8 DMX channels	13 DMX channels	8 DMX channels DMX 512 input signal. Wireless DMX interface as standard. Outdoor antenna and extension cable as standard.	8 DMX channels	8 DMX channels RDM protocol (for internal functions setting).	13 DMX channels
INTERFACE	LED display 3 buttons. Internal microcomputer with large function menu. Software updatable via DMX.	LED display 3 buttons Internal microcomputer with large function menu. Software updatable via DMX.	LED display 3 buttons Internal microcomputer with large function menu. Software updatable via DMX.	LED display 3 buttons Internal microcomputer with large function menu. Software updatable via DMX.	Via RDM. Internal microcomputer. Software updatable via DMX.	LCD display 3 buttons. Internal microcomputer with large function menu. Software updatable via DMX.
INSULATION DEGREE	IP65	IP33	IP55	IP65	IP65	IP65
DIMENSIONS cm	42,5 x 37,5 x 22,9 (LxDxH)	48,5 x 37,5 x 22,9 (LxDxH)	42,5 x 37,5 x 22,9 (LxDxH)	31 x 97 x 22,9 (LxDxH)	24 x 24 x 11,8 (LxDxH)	24 x 26 x 30 (LxDxH)
WEIGHT	13,5 Kg	15,5 Kg	13,5 Kg	16 Kg	4 Kg	6,5 Kg
DMX CHANNELS						
Ch1	**Strobo/Shutter**	**Strobo/Shutter**	**Strobo/Shutter**	**Strobo/Shutter**	**Strobo/Shutter**	**Strobo/Shutter**
Ch2	**Dimmer**	**Dimmer**	**Dimmer**	**Dimmer**	**Dimmer**	**Dimmer**
Ch3	**Red**	**Red**	**Red**	**Red**	**Red**	**Red**
Ch4	**Green**	**Green**	**Green**	**Green**	**Green**	**Green**
Ch5	**Blue**	**Blue**	**Blue**	**Blue**	**Blue**	**Blue**
Ch6	**CTC**	**CTC**	**CTC**	**CTC**	**CTC**	**CTC**
Ch7	**Macro**	**Macro**	**Macro**	**Macro**	**Macro**	**Macro**
Ch8	**Colour Mode**	**Colour Mode**	**Colour Mode**	**Colour Mode**	**Colour Mode**	**Colour Mode**
Ch9	**-**	**Pan - H**	**-**	**-**	**-**	**Pan - H**
Ch10	**-**	**Pan - L**	**-**	**-**	**-**	**Pan - L**
Ch11	**-**	**Tilt - H**	**-**	**-**	**-**	**Tilt - H**
Ch12	**-**	**Tilt - L**	**-**	**-**	**-**	**Tilt - L**
Ch13	**-**	**M Speed**	**-**	**-**	**-**	**M Speed**

PALCO 3 WHITE LED	PALCO 5 WHITE LED	RIBALTA WHITE LED	GENIO WHITE LED	GENIO MOBILE WHITE LED	
24 Luxeon Amber LEDs - 3W 25 P4 SEOUL White LEDs 4W Luminous flux 3.800 Lumens Colour temperature 2.000 - 6.700 °K (variable) Consumption 180W LEDs life 100.000 hours at maximum power	13 K2 Amber LEDs - 3W 36 P4 SEOUL White LEDs 4,5W Luminous flux 4.800 Lumens Colour temperature 2.000 - 6.700 °K (variable) Consumption 220W LEDs life 50.000 hours at maximum power	30 Luxeon Amber LEDs - 1W 60 P4 SEOUL White LEDs 3W Luminous flux 4.200 Lumens Colour temperature 2.000 - 6.700 °K (variable) Consumption 180W LEDs life 100.000 hours at maximum power	4 K2 Amber LEDs - 3W 12 P4 SEOUL White LEDs 4,5W Luminous flux 1.800 Lumens Colour temperature 2.000 - 6.700 °K (variable) Consumption 70W LEDs life 100.000 hours at maximum power	4 K2 Amber LEDs - 3W 12 P4 SEOUL White LEDs 4,5W Luminous flux 1.800 Lumens Colour temperature 2.000 - 6.700 °K (variable) Consumption 70W LEDs life 100.000 hours at maximum power	**LUMINOUS FLUX**
					COLOUR MIXING
- 8° LENS - 25° LENS - 40° LENS - ELLIPTICAL 10°X22° VERTICAL LENS - ELLIPTICAL 10°X22° HORIZONTAL LENS	- 8° LENS - 25° LENS - 40° LENS - ELLIPTICAL 10°X22° VERTICAL LENS - ELLIPTICAL 10°X22° HORIZONTAL LENS	- ASYMMETRIC 8° LENS - ASYMMETRIC 30° LENS - ELLIPTICAL 10° x 90° LENS	- 8° LENS - 25° LENS - 40° LENS (not included)	- 8° LENS - 25° LENS - 40° LENS (not included)	**LENSES**
Pan +/- 45° Tilt +15°, - 75°	Pan +/- 45° Tilt +15°, - 75°	Pan +/- 45° Tilt +15°, - 75°	Pan +/- 135° Tilt +/- 135°	Pan 540° Tilt 270° Motorized Pan and Tilt. Movement controlled via a dedicated IR control unit or DMX.	**PAN / TILT**
AC 90-270V, 50-60Hz	AC 90-270V, 50-60Hz	AC 90-270V, 50-60Hz	AC 90-270V, 50-60Hz	AC 90-270V, 50-60Hz	**POWER SUPPLY**
8 DMX channels	8 DMX channels DMX 512 input signal. Wireless DMX interface as standard. Outdoor antenna and extension cable as standard.	8 DMX channels	8 DMX channels RDM protocol (for internal functions setting).	13 DMX channels	**DMX CHANNELS**
LED display 3 buttons. Internal microcomputer with large function menu. Software updatable via DMX.	LED display 3 buttons. Internal microcomputer with large function menu. Software updatable via DMX.	LED display 3 buttons. Internal microcomputer with large function menu. Software updatable via DMX.	Via RDM. Internal microcomputer. Software updatable via DMX.	LCD display 3 buttons. Internal microcomputer with large function menu. Software updatable via DMX.	**INTERFACE**
IP65	IP55	IP65	IP65	IP65	**INSULATION DEGREE**
42,5 x 37,5 x 22,9 (LxDxH)	42,5 x 37,5 x 22,9 (LxDxH)	31 x 97 x 22,9 (LxDxH)	24 x 24 x 11,8 (LxDxH)	24 x 26 x 30 (LxDxH)	**DIMENSIONS cm**
13,5 Kg	13,5 Kg	16 Kg	4 Kg	6,5 Kg	**WEIGHT**
					DMX CHANNELS
Strobo/Shutter	**Strobo/Shutter**	**Strobo/Shutter**	**Strobo/Shutter**	**Strobo/Shutter**	**Ch1**
Dimmer	**Dimmer**	**Dimmer**	**Dimmer**	**Dimmer**	**Ch2**
White 1	**White 1**	**White 1**	**White 1**	**White 1**	**Ch3**
White 2	**White 2**	**White 2**	**White 2**	**White 2**	**Ch4**
Amber	**Amber**	**Amber**	**Amber**	**Amber**	**Ch5**
CTC	**CTC**	**CTC**	**CTC**	**CTC**	**Ch6**
Macro	**Macro**	**Macro**	**Macro**	**Macro**	**Ch7**
Colour Mode	**Colour Mode**	**Colour Mode**	**Colour Mode**	**Colour Mode**	**Ch8**
-	-	-	-	**Pan - H**	**Ch9**
-	-	-	-	**Pan - L**	**Ch10**
-	-	-	-	**Tilt - H**	**Ch11**
-	-	-	-	**Tilt - L**	**Ch12**
-	-	-	-	**M Speed**	**Ch13**

MASECA

SGM Technology for Lighting

LED COLOURCHANGERS

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LED LINE architectural lighting

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Art Direction e progetto grafico Acantocomunicazione

GB A000419_Rel.C