



Super LED F6 "Piccolo"

150 W High Power – Enhanced CRI

LED Fresnel SPOTLIGHT CRI greater than 90

White light, either Tungsten or Daylight balanced Correlated Colour Temperature



International Patent N° WO 2013/024501 A1 Advanced Optics for LED Projector with FRESNEL or PLANAR-CONVEX Lens

OVERVIEW

Data Sheet

The Super LED F6 "Piccolo" is a high efficiency Fresnel lens spotlight using the innovative High Power 150W COB (Chip on Board) LED ARRAY, in combination with the DE SISTI Internationally Patented optical system for LED FRESNEL and with an enhanced CRI (Color Rendering Index) higher than 90 for appropriate chromacity performances.

The Lighting Intensity is DMX Controlled from 0 to 100% with a super smooth Dimming and a negligible variation of Colour Temperature while changing the Light intensity.

The Super LED F6 "Piccolo" is available with either Tungsten (3.200°K) or Daylight (5.600°K) Balanced CCT (Correlated Color Temperature), in both cases with a CRI higher than 90 and both in Manual or Pole operated versions.

The lighting Performances of the Tungsten Balanced CCT are comparable from medium to full flood to those of a 1200W tungsten Fresnels, while the Daylight Balanced CCT slightly outperforms a 575W HMI.

The fixture combines the classical SPOT/FLOOD beam control on an equivalent FOCUS RANGE to a conventional lamp fresnel, with an excellent barn door cutting and a COMPACT HOUSING, for those applications where there are space constraints

It utilizes Standard accessories from the DE SISTI range of equivalent Fresnel Lens size, such as Barndoor, Colour Frame, Cones, scrims.

FEATURES

- 150 mm. diameter high quality, shock resistant Borosilicate glass Fresnel lens on spring supports.
- Rugged and Lightweight Carbon Steel housing with low glare black epoxy powder coating, with internal double walls and reinforces.
- High efficiency Self Stabilizing Active Cooling: Automatic, thermal stabilization of the LED operating temperature is managed by an internal thermal sensor and CPU, variable speed fan and heat sink to maintain the LED Array's constant temperature at a maximum of 65°C. The hydro dynamic bearing fan operates silently with a very low RPM.
- Special Patented Optics for LED Technology.
- Steel cable driven focus mechanism which guides Teflon bushings supported LED ENGINE along 2 rods. This ensures smooth operation during focusing, in any tilting position of the fixture. The Teflon bushings also provide a wiping action, which cleans the steel guide rails during focus. The focusing mechanism can be activated from both front and rear of the fixture and the whole spot to flood action is accomplished with 1 and half turn of the focusing knob.
- The unit is equipped with a hinged lens door with wire-guard, it includes accessory holding brackets. One of the 4 brackets has a locking knob and is spring loaded, it can be locked to either safely hold barndoor, color frame and scrims or to be rotated 90° and locked in an open position for fast accessories changes. A double safety accessory bracket with spring loaded catch is available on request to be assembled opposite to the locking knob.
- The accessories are secure regardless of the orientation of the fixture. Accessories have been designed for one hand installation.
- Available with either positive lock manual yokes for comfort and ease of handling, or pole operated yokes which can be used via the lighting pole for Panning and Tilting the lights as well as manually, since the mechanical activators are equipped with clutches. It is possible the conversion between the two types.



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CHARACTERISTICS & PERFORMANCE DATA

DESCRIPTION	VALUE				
Power to LED	150W DC Current to the LED (no flicker)				
 Power Consumption 	Europe 176W @ 230 V 50-60 Hz	America 187W @ 120 V 50-60 Hz			
DMX Data link USITT DMX512-A	This product uses a 5-pin XLR for DMX input and output. Use a shielded data cables. Do not overload the daisy chain. Up to a maximum of 32 devices can be used on a single DMX chain.				
DMX Channels	1 at 8bit: Dimmer 2 at 16bit: Dimmer				
LED ARRAY Lifetime	50.000 hours with 70% Lumen Maintenance. The LED ARRAYS are tested and certified up to LM80				
Protection Type	IP	22			
 Max. Housing Surface Temperature 	70° C				
Weight of Fixture	M.O. 8,4 kg.	P.O. 11 kg.			
 Weight of Barndoor 	4 leaf 0,63 kg.	8 leaf 0,85 kg.			
 Size of Barndoor ring 	Seat Diameter	Ring Diameter 190 mm (7″ _{1/2})			
 Weight of color frame 	0,13 kg.				
Size of scrims & color frame	Seat Diameter	Accessory Diameter 185 mm (7" _{1/4})			
Lens diameter	150 mm.				



POWER AND DMX DAISY CHAIN



The Super LED FRESNELS permit both POWER and DMX DAISY CHAIN. In fact each Fixture is respectively equipped with:

For DMX:

- 1 XLR5 pin Panel Mount Male & Female (DMX IN & OUT) For Mains Supply
- 1 20A Powercon NAC3MPA BLUE (POWER IN)
- 1 20A Powercon NAC3MPB WHITE (POWER OUT)





PHOTOMETRIC DATA

C.C.T. (Correlated Color Temperature) balanced to match 3.200°K TUNGSTEN LAMPS

PHOTOMETRIC DATA SUPER LED F6T "Piccolo" - 150W (CRI 92)

C.C.T. (Correlated Color Temperature) balanced to match 3.200°K TUNGSTEN LAMPS



LUX AT ANY DISTANCE = Candle Power : [Distance(in m.)] 2

F.C. AT ANY DISTANCE = Candle Power : [Distance(in ft)] 2

De Sisti Super LED F6T "Piccolo" - 150W : CCT = P3015 (+0.3) TLCI-2012 : 90 (P3015)



Television Lighting Consistency Index-2012



PHOTOMETRIC DATA

C.C.T. (Correlated Color Temperature) balanced to match 5.600°K DAYLIGHT LAMPS

PHOTOMETRIC DATA SUPER LED F6D "Piccolo" - 150W (CRI 92)

C.C.T. (Correlated Color Temperature) balanced to match 5.600°K DAYLIGHT LAMPS



LUX AT ANY DISTANCE = Candle Power : [Distance(in m.)] 2

F.C. AT ANY DISTANCE = Candle Power : [Distance(in ft)] 2

De Sisti Super LED F6D "Piccolo" – 150W : CCT = D5651 (+1.3) TLCI-2012 : 90 (D5651)



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Television Lighting



Super LED F6 "Piccolo" VERSIONS & MODEL NUMBERS

	DESCRIPTION
	TUNGSTEN BALANCED CCT (CRI higher than 90)
"F6PicT".MO.230 The Model Number for the DIN Spigot Version is "F6PicT".MO. 230DIN	Super LED "F6T Piccolo" - high power CRI>90 Tungsten CCT, M.O. LED Fresnel Spotlight including: • Mod. "F6PicT".MO.230H M.O. FIXTURE HEAD with 150 mm. (6") diameter Fresnel lens • POWERCON IN & OUT PANEL MOUNTED CONNECTORS. • XLR 5 Pin DMX IN & OUT PANEL MOUNTED CONNECTORS. • 150W high power CRI>90 LED with Tungsten Balanced Correlated Color Temperature (CCT) • Built In Power Supply 230-240V 50/60Hz DMX controlled. • Mod. 5403.135 3 mt. detachable Blue POWERCON power cable with bare ends • Mod. LT370.110.40 M.O. yoke with 28,57 mm. spigot (B.S. 1 1/8"), with top end for "C" clamp • Mod. 316.100 four leaf rotating barndoor • Mod. 317.100 colour frame DMX cable is not included, to be ordered separately
"F6PicT".PO.230 The Model Number for the DIN Spigot Version is "F6PicT".PO. 230DIN	Super LED "F6T Piccolo" - high power CRI>90 Tungsten CCT, P.O. LED Fresnel Spotlight including: • Mod. "F6PicT".PO.230H P.O. FIXTURE HEAD with • 150 mm. (6") diameter Fresnel lens • POWERCON IN & OUT PANEL MOUNTED CONNECTORS. • XLR 5 Pin DMX IN & OUT PANEL MOUNTED CONNECTORS. • 150W high power CRI>90 LED with Tungsten Balanced Correlated Color Temperature (CCT) • Built In Power Supply 230-240V 50/60Hz DMX controlled. • Mod. 5403.135 3 mt. detachable Blue POWERCON power cable with bare ends • Mod. 371.110.40 P.O. yoke with 28,57 mm. spigot (B.S. 1 1/8"), with top end for "C" clamp • Mod. 316.100 four leaf rotating barndoor • Mod. 317.100 colour frame DMX cable is not included, to be ordered separately
	DAYLIGHT BALANCED CCT (CRI higher than 90)
	· · ·
"F6PicD".MO.230 The Model Number for the DIN Spigot Version is "F6PicD".MO. 230DIN	Super LED "F6D Piccolo" - high power CRI>90 Daylight CCT, M.O. LED Fresnel Spotlight including: • Mod. "F6PicD".MO.230H M.O. FIXTURE HEAD with • 150 mm. (6") diameter Fresnel lens • POWERCON IN & OUT PANEL MOUNTED CONNECTORS. • XLR 5 Pin DMX IN & OUT PANEL MOUNTED CONNECTORS. • 150W high power CRI>90 LED with Daylight Balanced Correlated Color Temperature (CCT) • Built In Power Supply 230-240V 50/60Hz DMX controlled. • Mod. 5403.135 3 mt. detachable Blue POWERCON power cable with bare ends • Mod. LT370.110.40 M.O. yoke with 28,57 mm. spigot (B.S. 1 1/8"), with top end for "C" clamp • Mod. 317.100 colour frame DMX cable is not included, to be ordered separately
The Model Number for the DIN Spigot Version is "F6PicD".MO.	LED Fresnel Spotlight including: - Mod. "F6PicD".MO.230H M.O. FIXTURE HEAD with - 150 mm. (6") diameter Fresnel lens - POWERCON IN & OUT PANEL MOUNTED CONNECTORS. - XLR 5 Pin DMX IN & OUT PANEL MOUNTED CONNECTORS. - 150W high power CRI>90 LED with Daylight Balanced Correlated Color Temperature (CCT) - Built In Power Supply 230-240V 50/60Hz DMX controlled. - Mod. 5403.135 3 mt. detachable Blue POWERCON power cable with bare ends - Mod. LT370.110.40 M.O. yoke with 28,57 mm. spigot (B.S. 1 1/8"), with top end for "C" clamp - Mod. 316.100 four leaf rotating barndoor - Mod. 317.100 colour frame



Super LED F6 "Piccolo" : OPTIONALS & ACCESSORIES

MOD.	DESCRIPTION
15.300	DIN SPIGOT 28 mm. to M12 threaded stud with washer and nut for "C" clamp or stand mountig
95.100	28,57 mm. (1-1/8") spigot to M12 threaded stud with washer and nut for "C" clamp or stand mounting
LT370.110.40	Steel tube Manual Operated stirrup with 28,57 mm. spigot (B.S. 1 1/8"), with top end for attachment to "C"clamp.
LT370.300.40	Steel tube Manual Operated stirrup with 28,00 mm. spigot (D.I.N)
LT370.220.40	Steel tube Manual Operated stirrup with M 12 Threaded hole
371.110.40	Pole operated stirrup with 28,57 mm. spigot (B.S. 1 1/8"), with top end for attachment to "C" clamp.
371.300.40	Pole operated stirrup with 28,00 mm. spigot (D.I.N.)
316.100	Four leaf rotating barndoor
316.200	Eight way rotating barndoor
317.100	Colour Frame
318.100	Cone with two discs (with front aperture diameter: 105 mm. 80 mm. 55 mm.)
319.100	Set of scrims - Stainless steel
319.101	Full single scrim - Stainless steel
319.102	Full double scrim - Stainless steel
319.103	1/2 single scrim - Stainless steel
319.104	1/2 double scrim - Stainless steel
91.210	Aluminum black painted "C" clamp to hang fixtures overhead and for mounting on pipe with diameters up to 52 mm. (2"), with safety pin (no adapters)
93.102	Extruded Black "C" Clamp with M 12 Threaded Stud
93.103	Extruded Black "C" Clamp with M 10 Threaded Stud
20.100	Safety cable 800 mm. long with 4 mm. diameter steel rope and safety catch.
DGP-A1035 CS	Combo steel stand 35
DGP-A9000N	Wheel set with brakes











INCREASED OUTPUT Super LED F6 "Piccolo" versus LED LEONARDO 6 "Piccolo":

The SUPER LED F6 "Piccolo" is featuring an important increase of Light output if compared to the standard LED LEONARDO 6 "Piccolo".

The table shows the Main Lighting Parameters comparison between the two products:







ENERGY SAVINGS:

The Energy Savings introduced by this products are remarkable. The following table shows a Comparison of the energy conversion for both the Tungsten and the Daylight Super LED F6 "Piccolo" 150W, when compared respectively to 1.200W Tungsten Fresnel and to a 575W HMI, which are the equivalent lighting performance conventional fixtures, when analysing the output beam from middle to full flood:

DE SISTI - SUPER LED F6 "Piccolo" Energy & Thermal Savings versus equivalent Conventional Fixtures

The DE SISTI LED FRESNELS Tungsten are: 100% Dimmable locally or via DMX with super smooth dimming dynamics No separate DIMMERS required (No Dimmer Room and Simpler Cabling system) - All self contained in the Luminaire housing (no separate ballasts or power supply) - Power and DMX Daysy chain able - High energy savings when compared to Tungsten Fixtures with negligible POWER REQUIREMENTS and very low Thermal Emission for contained cooling systems in the studio. - Extremely contained Maintenance (mostly cleaning): no lamps replacement		SUPER LED F6T "Piccolo" 150W Tungsten balanced CCT Energy & Thermal Savings versus equivalent Filament Fixture The lighting Performances of the 150W Tungsten Balanced CCT from medium to full flood, are comparable and slightly outperforming those of a 1200W tungsten Fresnel				
ENERGY CONVERSION	Tungsten Fresnel		1.200 W	LED Fresnel	150 W	
Visible Light	8%		96 W	25%	38 W	
IR	73%		876 W	0%	0 W	
UV	0%		0 W	0%	0 W	
Total Radiant Energy	81%		972 W	0%	0 W	
Heat (Conduction + Convection)	19%		228 W	75%	113 W	
Total Power Consumption of Lighting Fixture	100%		1.200 W	100%	150 W	
Total % of Input Energy converted in Thermal Dissipation	92%		1.104 W	75%	113 W	
ENERGY SAVINGS on LIGHTING FIXTURE consumptiom with DE SISTI LED THERMAL EMISSION SAVINGS with DE SISTI LED	88% 90%	Using the DE SISTI LED instead of Tungsten Fixtures				
BTU to refrigerate the Dissipation of the Lighting Fixture			3.768 BTU		384 BTU	
HVAC Power Consumption to produce the above BTU			352 W		36 W	
Tot. CONSUMPTION in kWhrs in 2600 hrs (typical yearly use)		4	.034 kWh		483 kWh	
Tot. CONSUMPTION in kWhrs in 2600 hrs (typical yearly use) TOTAL yearly cost for Electricity per Fixture with 1 kWh = 0,2 \in		4. €	.034 kWh 806,87		483 kWh € 96,63	
	Per Fixtu	€	806,87	Per Fixture	€ 96,63	
TOTAL yearly cost for Electricity per Fixture with 1 kWh = 0,2 €	Per Fixtu Saving	€		Per Fixture Savings in %		
TOTAL yearly cost for Electricity per Fixture with 1 kWh = 0,2 € TOTAL ENERGY SAVINGS with DS LEDS = on LIGHTING FIXTURE + HVAC consumption The DE SISTI LED FRESNELS Daylight are: - much less expensive then equivalent HMIs fixtures . They are 100% Dimmable locally or via DMX with super smooth dimming dynamics	Savin	€ gs € 150	806,87 710,2 UPER LED F6 W Daylight H	Savings in % D "Piccolo" balanced CCT uivalent Daylight Di:	€ 96,63 88%	
TOTAL yearly cost for Electricity per Fixture with 1 kWh = 0,2 € TOTAL ENERGY SAVINGS with DS LEDS = on LIGHTING FIXTURE + HVAC consumptiom The DE SISTI LED FRESNELS Daylight are: - much less expensive then equivalent HMIs fixtures	Savin Energy & Ther The lighting Per	€ gs € 150 mal Sav	806,87 710,2 UPER LED F6 W Daylight I ings versus eq Fixtu es of the 150W	Savings in % D "Piccolo" balanced CCT uivalent Daylight Di:	€ 96,63 88% scharge Lamp	
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ENERGY SAVINGS on LIGHTING FIXTURE consumptiom with DE SISTI LED THERMAL EMISSION SAVINGS with DE SISTI LED

> BTU to refrigerate the Dissipation of the Lighting Fixture HVAC Power Consumption to produce the above BTU

Tot. CONSUMPTION in kWhrs in 2600 hrs (typical yearly use) TOTAL yearly cost for Electricity per Fixture with 1 kWh = 0,2 €

TOTAL ENERGY SAVINGS with DS LEDS = on LIGHTING FIXTURE + HVAC consumptiom

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Per Fixture

Savings in %

384 BTU

483 kWh

€ 96,63

74%

36 W

1.433 BTU

1.843 kWh 368,53

271,9

€

€

134 W

Using the DE SISTI LED instead of Discharge Fixtures

74%

73%

Per Fixture

Savings

Data Sheet

International Patent N° WO 2013/024501 A1

Advanced Optics for LED Projector with FRESNEL or PLANAR-CONVEX Lens



DE SISTI LED FRESNELS - LIGHTING QUALITY FIRST:

When choosing a FRESNEL you are expecting:

- Appropriate and effective Focusing Range from Spot to Flood
- Single shadows and their consistency within the Flood Field
- Even and wide Flood with appropriate Barn-door capability

This is exactly what you get with the DE SISTI LED FRESNELS.

The Internationally Patented Optical system specifically developed by DE SISTI to optimize the use of a LED Engine Technology in combination with a Fresnel Lens (or a Plano Convex) is providing to the DE SISTI LED FRESNELS the exact same lighting projection you would expect from a Standard Fresnel.

The following EXAMPLE SHOWS a COMPARISON between:

LED FIXTURE by "OTHERS" NOT REAL FRESNEL performances



• The Beam in full flood is NARROW (only 45°) and shows an HOT SPOT (large area to go from Beam to Field Angle)

LED FIXTURE by "DE SISTI" EXACT FRESNEL performances



• The Beam in full flood is LARGE (above 60°), even and flat (No Hot Spots and rapid passage from Beam to Field Angle)



• The Barndoor in a NOT REAL FRESNEL optics does not work properly: the projection is OVAL and the more you barndoor the more you dim the central beam





 The Barndoor on the DE SISTI LED FRESNEL has exactly the same functionality obtained with a PROPER FRESNEL optics.