



## GIOTTO MK2

Quartz – Halogen Top Cyclorama Lights



*Mod. 4130  
Mod. 4140*



*Mod. 4132  
Mod. 41.42*



*Mod. 4133  
Mod. 41.34*

*Mod. 4134  
Mod. 41.44*



## FEATURES

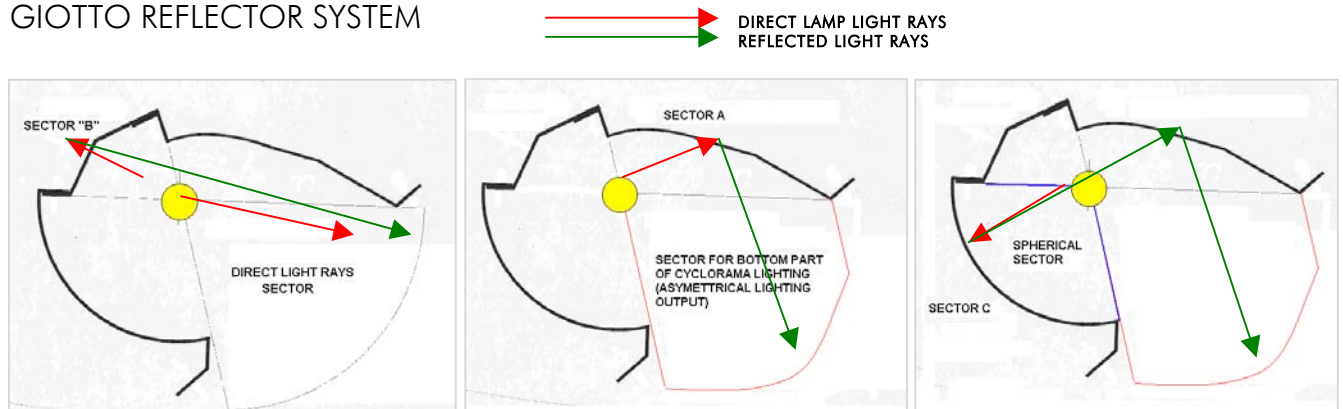
- Compact, construction and modular design for cyclorama over-head illumination, using linear tungsten-quartz-halogen filament lamps having R7s sockets and length of 118mm.
- Rugged and Lightweight Carbon Steel housing with low glare black epoxy powder coating, with front curved supports for filter frame, in order to hold the colored filters almost perpendicular to the output light rays and guarantee best output energy transmission and no color aberration.
- Compact overall housing height to minimize geometrical influence on back-lighting fixtures assembled between the background and the top cyclorama lights (other brands of top cyclorama lights use a tall housing that very often is obstructing the above mentioned back-lights).
- High efficiency convection cooling.
- High Efficiency and innovative optical system for homogeneous illumination of tall backgrounds. The reflector of the Giotto is formed by three different sectors:

SECTOR B: this portion of reflector is formed by a diffused material and is contributing for lighting the upper/medium region of the cyclorama height and has a special shape to avoid the lamp filament image projection on the background.

SECTOR A: this section is reflecting and conveying a big amount of light to the bottom part of the cyclorama, in order to compensate the longer distance of such part from the fixture and to obtain the even illumination of the background. This sector is built using a special semi-diffused aluminum.

SECTOR C: this portion of reflector is shaped as a spherical sector and it is built with high reflectivity aluminium. The light rays emitted by the lamp are reflected by the SECTOR C back to SECTOR A and therefore used to lit the bottom of the cyclorama.

## GIOTTO REFLECTOR SYSTEM



Such a unique optical system is guaranteeing not only the asymmetrical emission required, but a higher efficiency of the Giotto if compared with other competitive products. Also the special shape of the optical system is permitting the savings on the overall height of the lighting fixture.

- Flexible filter frame per compartment, to keep the gel tangential to the light output rays so as to achieve the best coefficient of transmission of the color filters, avoiding their overheating and eliminating color aberration on the projection.
- Each lamp compartment is equipped with a stainless steel wire guard.
- The accessories are secure regardless of the orientation of the fixture.
- 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.

## WORKING CONDITIONS

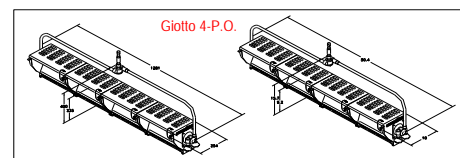
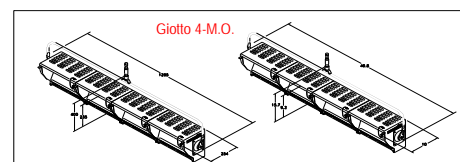
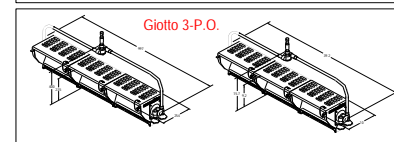
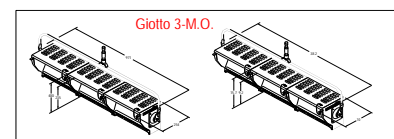
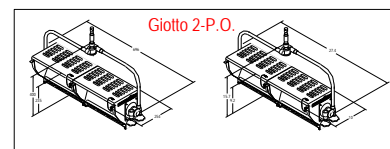
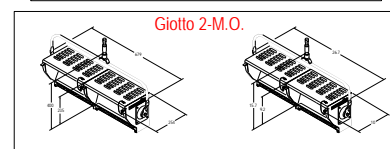
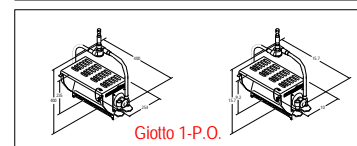
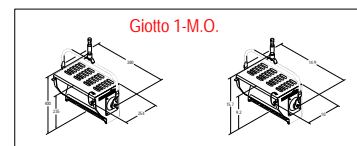
➤ Working Position	<b>Lighting fixture:</b> Max. Tilting 45° from horizontal ( +\ - 11 ° recommended )	<b>Lamp:</b> any for tilt position MAX +\ - 4 ° Horizontal		
➤ Ambient Temperature, t <sub>a</sub>	+45° C Max			
➤ Minimum distances from inflammable surfaces	Top <b>0.25 m.</b>	Back <b>0.1 m.</b>	Sides <b>0.1 m.</b>	Front <b>0.7 m.</b>

## CHARACTERISTICS & PERFORMANCE DATA

DESCRIPTION	VALUE ( for 1 compartment )			
➤ Amperage	<b>Europe – 230 V</b> 4.3 A ( 1000 W )		<b>America – 120 V</b> 8.3 A ( 1000 W )	
➤ Power supply	<b>Europe</b> 230 V / 0-60 Hz		<b>America</b> 120 V / 0-60 Hz	
➤ Lamp Holder	<b>Standard Versions</b>			
	R7 s		R7 s UL R/C	
➤ Power Cable	<b>Europe</b> 190°C 3 x 1.5 mm <sup>2</sup> H07RN-F 90°C		<b>America</b> 3 x 16 AWG TYPE SO 90°C	
	Class 1– ground connection required			
➤ Protection Class	IP 22			
➤ Protection Type	157 °C			
➤ Max Housing surface temperature				
➤ Weight of Fixture	<b>M.O.</b>		<b>P.O.</b>	
	Model	Kg	Model	Kg
	4130	6.05	4140	7.0
	4132	10.5	4142	11.1
	4133	15.0	4143	16.1
4135	19.0	4144	20.4	

USABLE LAMPS - length-watt-filament	230 v		120 v	
	ANSI	LIF	ANSI	LIF
119 – 1000 – sc 8	-	P2/20	FCM	P2/28

*DIMENSIONS shown in the left side are in mm. and the ones in the right side are in inches.*



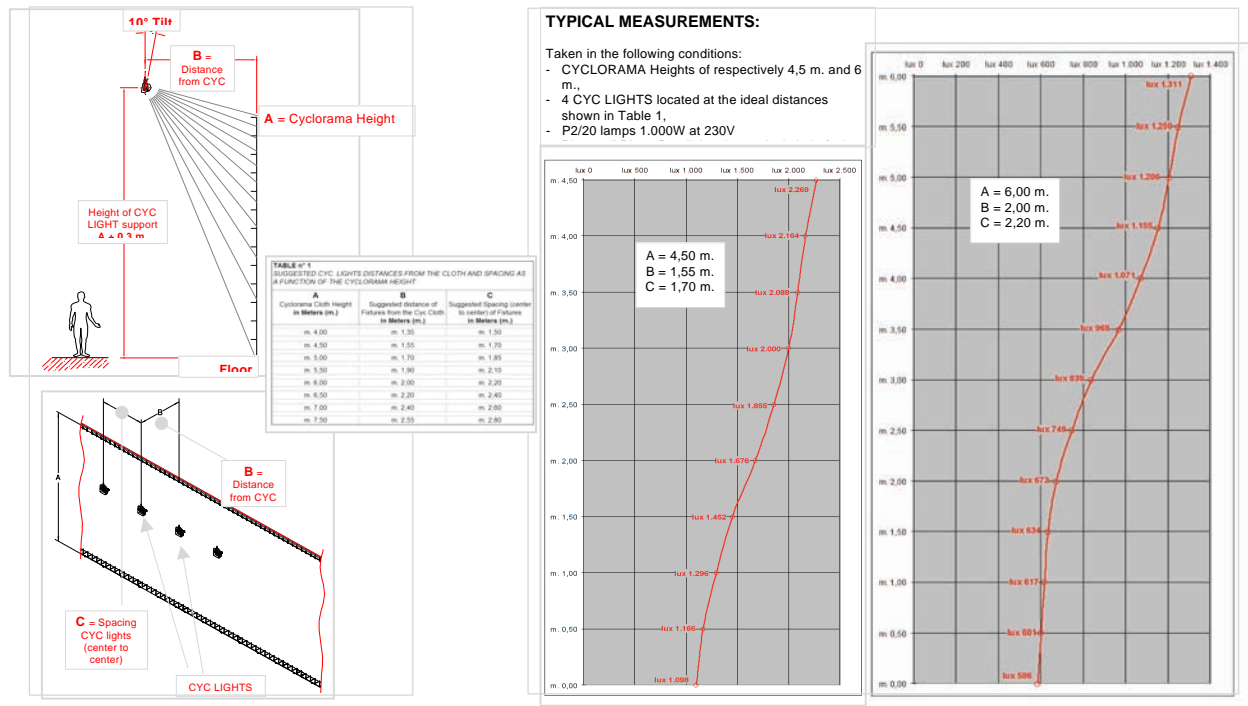
GIOTTO M.O. Top Cyclorama Luminaires Lamp Length 118 mm.	
4130.210	GIOTTO "1" M.O. One Compartment Unit (4130.201) lamp length 118 mm, including wire guard, color frame (4137.100), 2 mt. cable each compartment, M.O. stirrup (4130.110.40)
4132.210	GIOTTO "2" M.O. HORIZONTAL, Two Compartment Unit (4130.201), lamp length 118 mm., including wire guard, color frame (4137.100), 2 mt. cable each compartment, M.O. stirrup (4132.110.40)
4133.210	GIOTTO "3" M.O., HORIZONTAL, Three Compartment Unit (4130.201), lamp length 118 mm., including: wire guard, color frame (4137.100), 2 mt. cable each compartment, M.O. stirrup (4133.110.40)
4135.210	GIOTTO "42" M.O. HORIZONTAL, Four Compartment Unit(4130.201), lamp length 118 mm., including wire guard, color frame (4137.100), 2 mt. cable each compartment, M.O. stirrup (4135.110.40)

GIOTTO P.O. Top Cyclorama Luminaires Lamp Length 118 mm.	
4140.210	GIOTTO "1" P.O. One Compartment Unit (4130.201) lamp length 118 mm, including wire guard, color frame (4137.100), 2 mt. cable each compartment, P.O. stirrup (4140.110.40)
4142.210	GIOTTO "2" P.O. HORIZONTAL, Two Compartment Unit (4130.201), lamp length 118 mm., including wire guard, color frame (4137.100), 2 mt. cable each compartment, P.O. stirrup (4142.110.40)
4143.210	GIOTTO "3" P.O., HORIZONTAL, Three Compartment Unit (4130.201), lamp length 118 mm., including: wire guard, color frame (4137.100), 2 mt. cable each compartment, P.O. stirrup (4143.110.40)
4145.210	GIOTTO "42" P.O. HORIZONTAL, Four Compartment Unit(4130.201), lamp length 118 mm., including wire guard, color frame (4137.100), 2 mt. cable each compartment, M.O. stirrup (4145.110.40)

## PHOTOMETRIC DATA

The Giotto Mk2 produces a better light distribution at the same lighting level of the previous Giotto version, utilizing a 1 kW lamp per compartment instead of a 1,25 kW. The following photometric charts are developed by measuring the effect of 4 single compartments, distributed as indicated in each graph.

In fact the proper cyclorama light distribution in terms of lighting levels and uniformity is obtained with the minimum simultaneous effect of 4 compartments, that should be preferably spaced as per the ideal distances indicated in the TABLE 1, which are function of the cyclorama height.



## IMPROVEMENTS INTRODUCED BY THE GIOTTO MARK 2

The newer OPTIMIZED OVERHEAD CYCLORAMA LIGHTING UNIT, the GIOTTO MARK II, is introducing the following improvements over the previous successful standard Giotto:

### ☐ ENERGY SAVING, LOWER POWER CONSUMPTION & LOWER HEAT:

The GIOTTO Mk2 grants numerically equivalent lighting performance, consuming 20% less power, (1000 W instead of 1.250 W).

Consequently, not only there is a constant Power Saving, but also the thermal load is reduced of the same percentage.

In addition to the measured illumination values on the Cyclorama, it is important to notice the uniformity and even distribution of the light projected on the cloth.

### ☐ LONGER COLOUR FILTERS LIFE:

The lower power utilized and consequently the lower INFRARED projection, permit a reduced wearing of the colour filters, which are kept perpendicular to the light emitted in front of the unit to optimize the transmission.

### ☐ COMPACT DIMENSIONS:

The compact housing dimensions permit MULTI-COMPARTMENT units to be assembled in a row, in order to avoid vertical space occupancy and to optimize multicoloured light beam projection precise overlapping, when utilizing the colour mixing arrangements.