



G.COMM





the company that **loves** your eyes




## High technology for a perfect vision

The aim of a dental light is to provide appropriate illumination levels in the treatment area, assuring the professional and patient's comfort. The quality of light is not only essential for a correct visualisation of surgical field and for a true perception of colours, but also for the influence that light plays on the physiological processes of the observer.

Several studies have demonstrated that the light source characteristics, in terms of colour temperature and light intensity, can influence the concentration level, improving the execution of mental activities and reducing the possibility of error. All these aspects represent the non visual effects of light.

The evaluation of a dental light shall involve mainly the quality of its illumination which is the result of a perfect combination between light intensity (lux), colour temperature (Kelvin) and colour rendering index (CRI).





## eyestrain? forget it.

All Gcomm lights give the possibility of light intensity (lux) adjustment, making the light adaptable to the level required by the specific application and consequently reducing eye strain. On Gcomm LED lights it's also possible to adjust the colour temperature, a physical characteristic measured in Kelvin [K], used to defined the hue of the light.

A low colour temperature, less than 4.000 K, corresponds to a yellow-orange hue, while a light with colour temperature in the range of 12.000 K to 16.000 K has a blue tint. Colour rendering index (CRI) expresses how accurately a light source shows the colours of an object compared to the natural light. The more accurate the rendering is, the higher the index value is (CRI = 100 if there is coincidence). All Gcomm lights have a CRI > 85.

**Gcomm developed the new Eye Care System (ECS) which is a further demonstration towards patient's health care and a technical improvement for the dentist.**

**ECS foresees a sensor which throughout a movement of the light activates the safety device and reduces the light intensity for a few seconds, avoiding the eye dazzling of the patient.**



Iris



Polaris

isa



Vision



Nuvola



# i light it ...

The “I light it” philosophy has revolutionised the way to design and manufacture our products. The goal is to achieve a significant improvement of the dentist’s work, paying attention to the quality of light and protection of the environment.

Harmony in lighting is a perfect combination between environmental illumination and the treatment area illumination, our systems could work as one, independently, but in symbiosis to each other. With Gcomm you have now available all the lighting solutions.



# Iris

app for innovative communication



Gcomm introduces, first in the dental lighting sector, an innovative user interface with iOS technology, available now for iPad. It represents a revolutionary and unique step towards the traditional dental light concept.

The application "My light" is equipped with an easy interface for the remote regulation of colour temperature, light intensity and Full HD videocamera zooming. There are two more additional options: User customisation and Gcomm recommended values.

Three buttons allow to flip, reverse and freeze the image from the videocamera.

More user profiles can be customised for a maximum flexibility and statistic information.





Iris

## built-in full HD videocamera

IRIS is equipped with a Full HD videocamera (1.920 x 1.080 px) with Autofocus and white balance regulating device. With a 20x optical zoom and 12x digital zoom the videocamera ensures clear and detailed images of the oral cavity for diagnostic and treatment. Videos can be recorded on external devices\* for educational purposes (university and conferences) and for the treatment technique improvement.

\* third party products



Iris

new performance in led light



Full HD  
videocamera system

180° keyboard  
rotation

Autoclavable  
handles

Patient  
mirror



IRIS, the second generation of Gcomm LED light, has multi purpose performances, combining a direct LED illumination technology together with an High Definition (Full HD) video camera system for professional use. Special made lenses together with 8 cold and warm white LEDs ensures a perfect light pattern and uniformity in illuminance distribution. A 180° rotation of the keyboard allows the operator to use it in different positions and makes easier the selection of the 3 pre set programmes:

**Surgery treatment**

colour temperature setted on 4.500 K for a better contrast on soft tissue

**Colour tooth matching**

colour temperature setted on 5.500 K for a daylight colour rendering

**Polimersation filter**

colour temperature setted on 3.000 K to prevent activation of composites

Adjustable light intensity between 8.000 lux and 35.000 lux. Possibility to adjust as well the colour temperature (from 4.200 K to 6.000 K) to the individual needs of the user. Additional keys on the keyboard allow the use of the Full HD videocamera system by zooming in and out, up to 20 x. The main body of IRIS made in aluminium grants a long durability and robustness. Ergonomic and simple design applies to different surgical requirements quickly. Colour rendering index (CRI) >93 % (from 4.200 K to 5.500 K).

# POLARIS R2



led technology to light your work



The POLARIS R2 light is realised with an advanced design, characterised by simple and soft lines. Design has been particularly studied in order to realise a dental light not only with high performances but also aesthetically considered: a perfect union of functionality and aesthetics.

Soft lines and smooth surfaces, the possibility of an easy handles' extraction and sterilisation allows to an optimal cleaning and hygiene.

POLARIS R2 is characterised by shells entirely in aluminium, which assures a high robustness. The studied geometry of reflectors, in combination with each LED source, allows to realise a luminous flux which is homogeneous, clean and without shadows. POLARIS R2 is equipped with two potentiometers which allow to adjust both light intensity (from 8.000 lux to 35.000 lux) and colour temperature (from 4.200 K to 5.800 K).



Potentiometer for Lux and Kelvin



Sensor On/Off



Autoclavable handles



# ISA

## dental halogen light



Dental light ISA has been designed to be ergonomic and modern at the same time. The results of the applied technology are:

- an operating light very easy to handle, stable and unique for its armonious lines and pleasant colours
- a perfect light pattern and cold white light (up to 30.000 lux)
- new high performance resin reflector, easy to clean and resistant to brakes
- a colour rendering index > 90

Dental light ISA is the expression of a product MADE IN ITALY.

dental halogen light

VISION



The operating light VISION is on the market since 20 years, with excellent results. Simple as functional, thanks to the high performance resin reflector, it guarantees a light pattern without shadows and imperfections, as well as a cold white light.

Available in three versions:

- Vision Switch: allows to choose the needed light intensity at 15.000 lux or 25.000 lux
- Vision with Potentiometer: the progressive regulation between 15.000 lux and 25.000 lux allows to select the light intensity more suitable for dentist needs
- Vision with Optical Sensor: in order to fulfil the sanitary regulations, this model allows to switch on-off the light just passing one hand



**Nuvola** the environmental light





To be able to perform a satisfactory work in an ergonomic way it is essential that the dental practice is equipped with a lighting system suitable and studied according to the physical characteristics of the room itself and the operational needs. Hence the idea of a series of ceiling professional lights - NUVOLA and NUVOLINA - for studio lighting and for any dental treatment room.

The NUVOLA series has been developed with materials that allows an easy and simple cleaning to prevent bacterial proliferation. Modern design, smooth lines and a body without openings, makes it perfect for use in surgical environments and without need for maintenance.

High power illumination between 2.200 lux (1.300 mm above the working area) and 5.000 lux (850 mm above the working area). Colour temperature of 6.500 K and colour rendering index (CRI) of 95 %



# COREWHITE

## bleaching light system

Corewhite is a bleaching light system that can be easily applied directly to POLARIS and IRIS by removing a handle. Through LED technology is possible to get the desired light intensity for different operation purposes. No external supports, make the operation area free of any obstruction. Available also on independent trolley.



Mirror



Filter



Handles

# Accessories



## mirror

The need of a visual communication between operator and patient has lead to the creation of a pullout MIRROR for IRIS, POLARIS and ISA lights, allowing the patient to follow the treatment.

## filter

The ANTI-POLYMERIZATION FILTER is another example of the attention towards the patient.

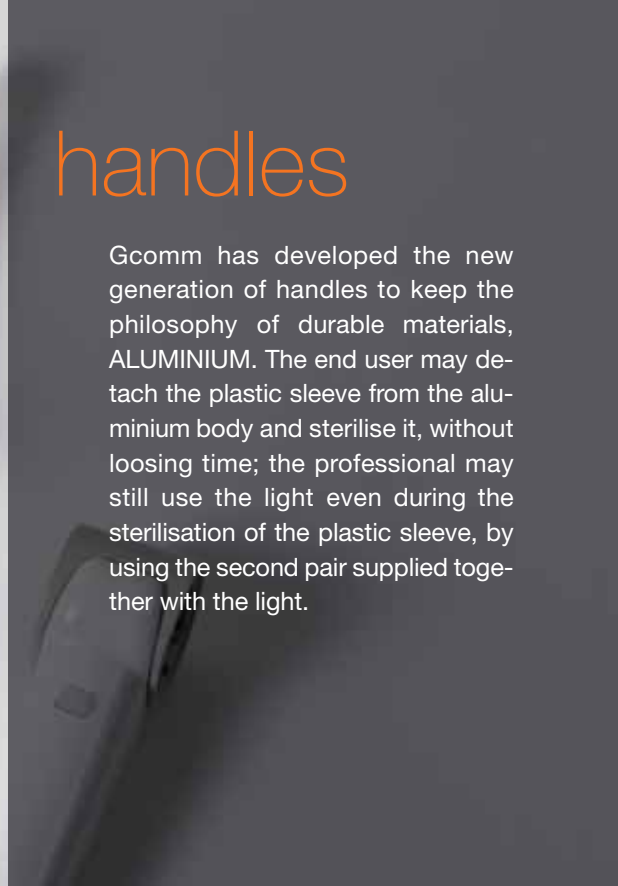
This filter is easily interchangeable with the MIRROR through a simple dap joint device. The purpose of this accessory is to reduce spectrum of light emission avoiding activation of the composite, even with the maximum light intensity.





## handles

Gcomm has developed the new generation of handles to keep the philosophy of durable materials, ALUMINIUM. The end user may detach the plastic sleeve from the aluminium body and sterilise it, without losing time; the professional may still use the light even during the sterilisation of the plastic sleeve, by using the second pair supplied together with the light.



## light covers

LIGHT FRONT COVER TREATED WITH SILICON FILM, for the maximum durability and protection of reflectors and lenses.



Light shells

## materials

SHELL and HANDLE made in CAST ALUMINIUM, for a higher resistance, durability and higher quality. Gcomm manufacturing process is based on strictly quality checking and procedures, paying attention to the protection of the environment. Our philosophy is your satisfaction, for a mutual benefit.



# Accessories

## Lighting accessories

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light intensity (lux) adjustment



color temperature (Kelvin) adjustment



E.C.S. eye care system



low heat production



no infrared



no UV



3rd axis movement



low noise



low energy consumption



sterilisable handle at 134°C

We reserve the rights to modify the specifications without prior notice.

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