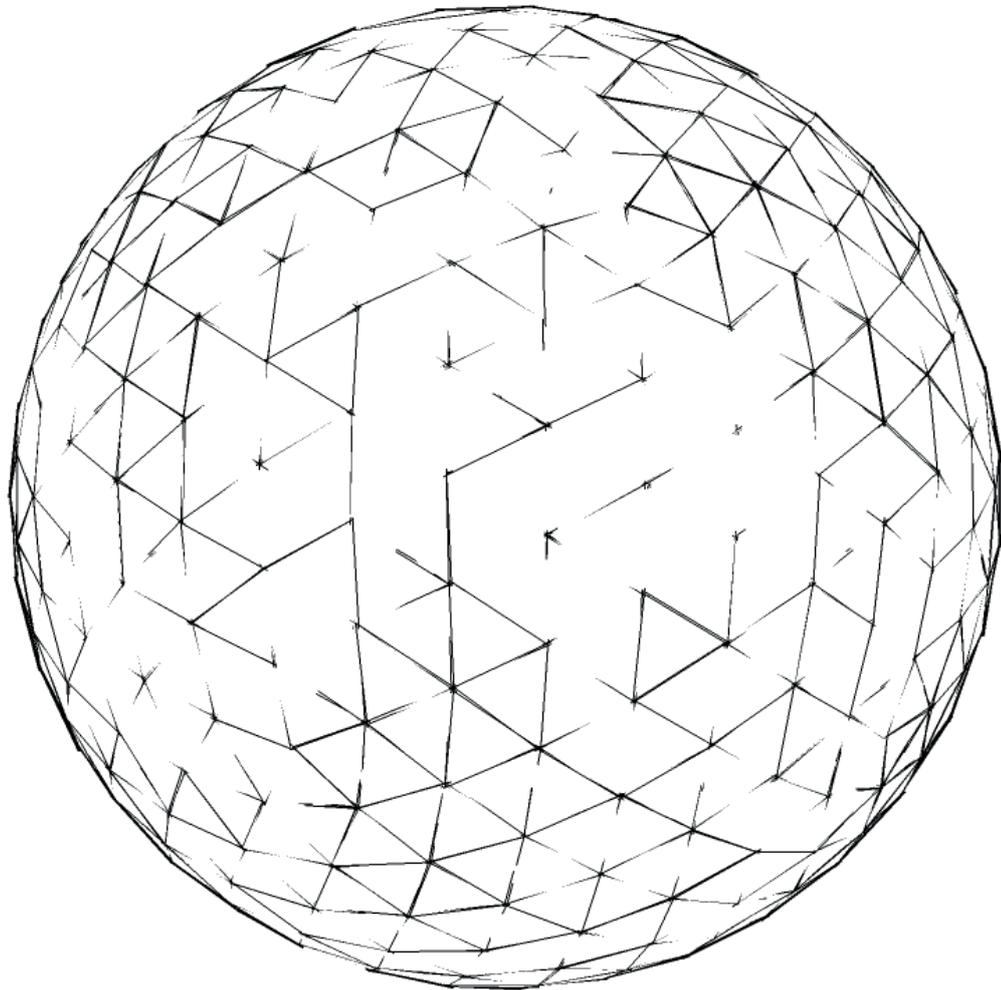




SPHERA SVETA

Glowing Spheres



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SpheraSveta Company develops innovative lighting solution which aimed at applications in various areas of human activities.

Advertising and entertainment industry

Flying and tripod glowing spheres are now widely used in advertising and entertainment industry. The surface of the sphere is ideally suited for placement any graphical and textual information, logos, and images. Big glowing balloon is a perfect eye-stopper. Attracting of attention – this is what our products specialize in. Anyone will be at least surprised by the size of balloon and smooth, powerful luminescence emanating from the spheres. And, of course, in his the information which is located on the surface of the sphere will stay in his subconsciousness. This effect multiplies many times when you use large number of spheres. Believe me, three or four, silently vibrating in the wind, glowing balloons, it's an unforgettable sight. Spheres can be used both indoors and outdoors, and outdoors usage looks even more spectacular. In the evening light from the illuminated spheres perfectly fills the area, simplifying the holding of promotions and cultural events.

In the entertainment industry application of spheres can be also diverse. It is possible to build ultra-violet lamp ("black light") into the sphere that cause the glow of all the white objects in the darkness of night club. Besides extremely warm halogen lamps' light, powerful and cold light from metal-halide lamps, as well as extraterrestrial light of 'black light' lamps great features of LEDs are added. The sphere can not only gently glows in different colors (16 million tints), but also change the color of the glow when you hit the sphere and not only as a whole, but also by sector. You can implement a lot of effects, namely, smoothly changing of colors or working in the company's colors, pulsation according to music rhythm etc - all these features can be programmed in a special





controller. The controller can manage a group of balls at once (up to 32 objects) and in this case the produced effect multiplies many times. Also all the Spheres may be united in the network and they will work as a single whole.

Our company is a developer and manufacturer, so we can produce almost any product according to your requirements or specification. If you are interested in developing innovative advertising - let's talk, think and create together!

Construction works

Mobile lighting system based on the Spheres can be effectively used on all construction sites. It can operate in the absence of regular power grid, in the most difficult climate and landscape conditions, using the energy generator or inverter. Spheres are easy to install on special machinery (bulldozer, excavator, loader) and illuminate the space around the machine that allows you to comfortably work at night. In this case the power provided from an onboard network via an inverter (12 or 24V). The usage of such lighting devices on the construction works give you lot of advantages:

1) Thanks to 360-degree diagram of illuminance the Spheres illuminate all the space around them with smooth and bright light, including the space located above the light source;

2) Material of the shell gently diffuses the light that doesn't blind and allow people to work in close proximity to Spheres;

3) Helium-filled sphere can be raised up to 30 meters height;

4) Air-filled sphere can be mounted on a tripod or on any static object using the suspension system;

5) Installation of Spheres on special machinery (bulldozer, excavator etc) makes lightning system absolutely mobile without any additional equipment or maintenance;

6) The system requires no additional equipment and suspensions, special conditions of storage or use.





Emergency works

Mobile Lighting System (MLS) Solaris was developed specifically for Ministry of Emergency Situations needs. The system is very compact and transportable. It can be permanently located in special vehicles and used as needed. It can be powered by the inverter or generator. The device is deployed quickly (3-5 minutes) by very small crew (1-2 people). Even in case of emergency situations, when the shell is damaged or the bulbs are broken it is easy to fix these problems in the shortest possible time.

Movie and TV filming

Spheres are well proven in the filming sites. A huge glowing sphere is ideally suited for obtaining high-quality illumination on the site. Deployment of lighting spheres will not cause any problems at the site. Each sphere has mounting brackets compatible with all standard tripod used in the filming and plugs for connecting to different types of ballasts. Spheres can be filled with both air and helium and in last case they may be raised up to 30 meters height. You can wear special black "shirt" on the Sphere to protect the background from harmful flare and direct vector of illuminance to the right direction. Our company not only manufactures and rents high-power lighting equipment, but also calculate needed illuminance according to the customer's requirements and makes selection of equipment based on these calculations. With the help of specially designed software we can get the real distribution of illumination on the ground in the form of graphs and isolux. Our team of lighting technicians has wide experience of working on sites.

Mass and sports events

Spheres can be used to illuminate any sports or mass events. Biathlon, cross-country and downhill skiing, shooting ranges, water competitions are objects, which our products were successfully used. Festivals, open-air parties, discos, presentations, folk festivals, demonstrations, rallies - these are the





events, which should be well lit and this result is easy to achieve with minimal effort and cost, using the ground and flying lighting Spheres. In addition, you can put different images, logos or other information upon the Sphere's surface – this will add advertising function to illuminating one.

Possible dimensions

The Sphere can be made any size, but there are standard sizes:

Tripod version: 1.0 m, 1.5 m, 2.0 m

Flying version: 3.5 m, 3.7 m, 4.0 m, 4.5 m, 7m

Flying spheres are used for lighting large areas: rescue works, sports, cultural and mass, events. It is an effective advertising medium. It is used in film and video production.

Can be mounted on any tripod or hung in any convenient location. In the case the diameter of the sphere is more than 3.5 meters - can be filled with helium and fly on their own.

Small lighting systems Solaris are installed on special machinery equipment such as excavators and bulldozers to illuminate the area around the machine that allows you to comfortably work at night. Power is supplied from an onboard network via an inverter (12 or 24W).

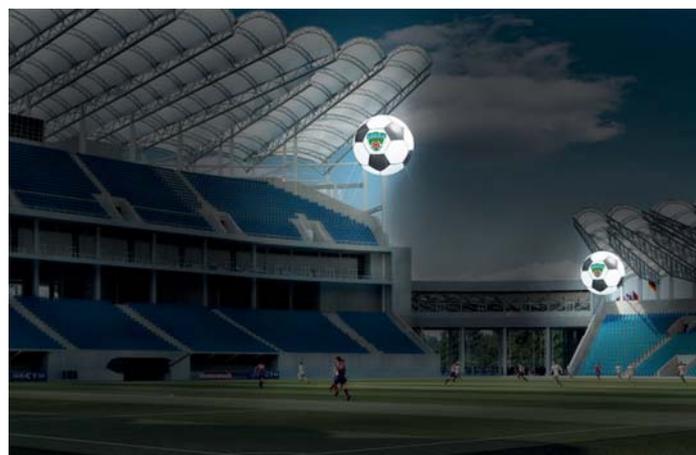
Currently we are working on development of spheres a high degree of automation and security.

Mounting options

The sphere can be filled with helium and lifted to a height of 30 meters; in this case it is necessary to use fastening system to protect the Sphere from rushes of wind.

Light sources

In principle, the factor limiting the number of light sources is the weight . The larger the diameter of the Sphere, the heavier light source can be lifted. Most often, the number of lamps in the area does not exceed 6 units. Each lamp can be up to 4 kW of power.



Tripod spheres

Shell diameter: 1 and 1.5 meters

Shell Material: Reinforced polyurethane film

Light source power: from 250 W to 2 kW
(When power is more than 500W external power supply is used)

The light source: metal halide lamps

Lamp Lifetime: 10,000 hours

Color temperature: 6,000 K

Height of Lift: up to 6 m

Working temperature range: -50 to 45 C

Supply voltage: ~220 - 240 V

Power connectors: standard plug or plug 16A

Deployment time: 3 minutes

The standard delivery includes an electrical cable of 5 meters

Warranty period: 12 months

Flying spheres

Shell diameter: 3, 3.5, 4.0, 5.0, 7.0 meters

Shell Material: Reinforced polyurethane film

Light source power: from 2 W to 24 kW
(External power supply is used)

The light source: metal halide lamps

Lamp Lifetime: 10,000 hours

Color temperature: 4,500-6,000 K

Height of Lift: up to 30 m

Working temperature range: -50 to 45 C

Supply voltage: ~220 - 240 V

Power connectors: standard plug or plug 32A (IP44)

Deployment time: 25 minutes

Helium consumption (3.5 m): 4 cylinders at a time

The standard delivery includes an electrical cable of 5 meters

Warranty period: 12 months

Sensor spheres

Shell diameter: 1 or 1.5 meters

Shell Material: Reinforced polyurethane film

Light source power: ~6 W

The light source: RGB LEDs

Lamp Lifetime: 10,000 hours

Operating modes: blinking, changing colors, smooth fading, stroboscopic effect

Working temperature range: -50 to 40 C

Power source: 4 batteries (AA)

Supply voltage: 5 V

Programmable controller

Working time (1 battery set): 1.5 hours

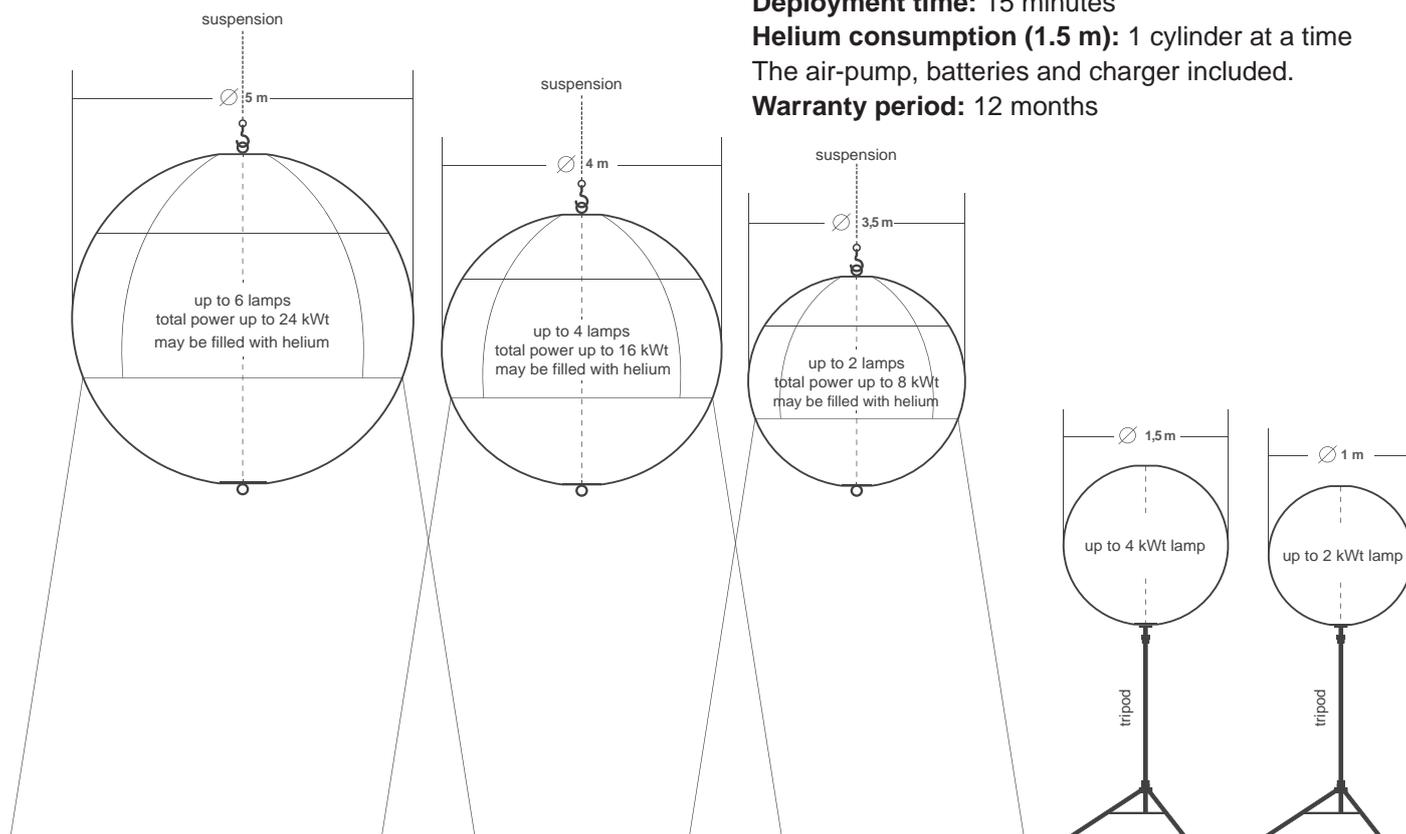
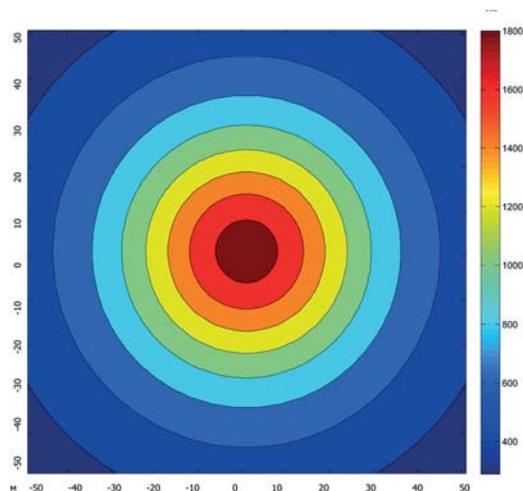
Height of Lift: up to 20 m (filled with helium)

Deployment time: 15 minutes

Helium consumption (1.5 m): 1 cylinder at a time

The air-pump, batteries and charger included.

Warranty period: 12 months





About

SpheraSveta Company is a developer and manufacturer of mobile lighting systems. The production base is located in Zelenograd City. The company's specialists carry out a complete cycle of works, including project development, calculations, installation and maintenance.

Helium-filled lighting are an innovation in the Russian market - developed technology is unique in the country. Company's design department is actively working on new promising technologies, focused on the production and use in Russia and abroad. Namely:

- Autonomous lighting fixture for emergency rescue operations (intellyPin);
- Street lighting which runs by alternative energy sources (solar and wind power);
- An electronic device which provides the security and communication within the transport system (system of public transportation, buses, cable railroad, funiculars etc.)



Patent





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