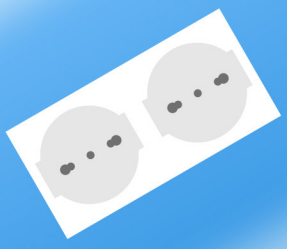
Lighting & Medical Devices



atena lux®

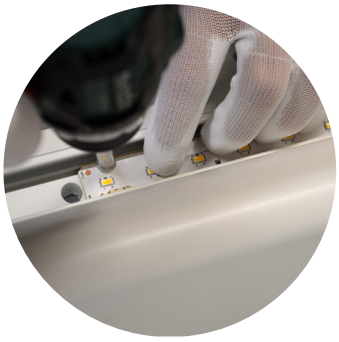
ATENA LUX FOR THE MEDICAL SECTOR

OUR PRODUCTION

ATENA LUX has been producing lighting systems for the technical and medical sector since 1994. Present on the hospital market since 2006 with its bedhead units, the company now has numerous models for hospital and nursing home rooms, for group 2 rooms such as intensive care and pre- and post-operative rooms.

ATTENTION FOR THE CUSTOMER

All bedhead units from ATENA LUX are moulded according to the specific requirements of the customer.



PRODUCT QUALITY CERTIFICATIONS

The bedhead units are certified as electromedical devices and their warranty is extendable up to 5 years.

100% MADE IN ITALY

From design to the finished product, the company follows the birth of the product step by step.

SOCIAL RESPONSIBILITY

ATENA LUX is committed to a sustainable style of growth to drive industrial process and product innovation towards resource-conserving solutions.

THE IMPORTANCE OF LIGHT

The lighting systems inside ATENA LUX's bedhead units are designed to meet the requirements of EN 12464-1 and DIN 5035, which recommend minimum illuminance levels for the performance of all activities by medical staff and patients inside the patient room.

LIGHT CAN MAKE THE HOSPITAL ENVIRONMENT MORE COMFORTABLE

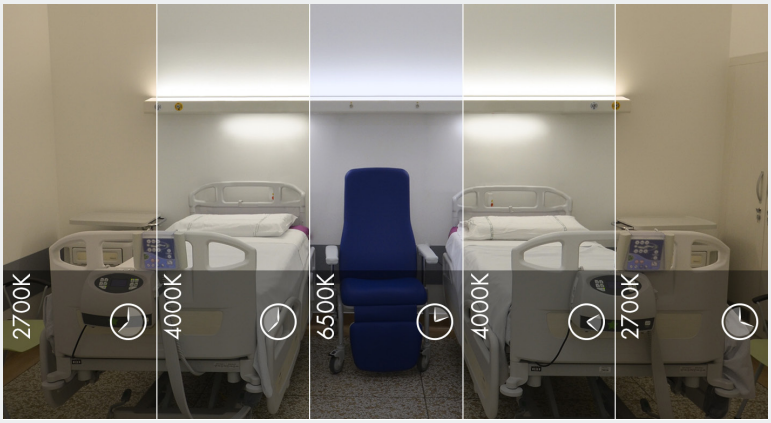
Bedhead units are designed to ensure proper lighting without the need for additional lighting points for ambient lighting.

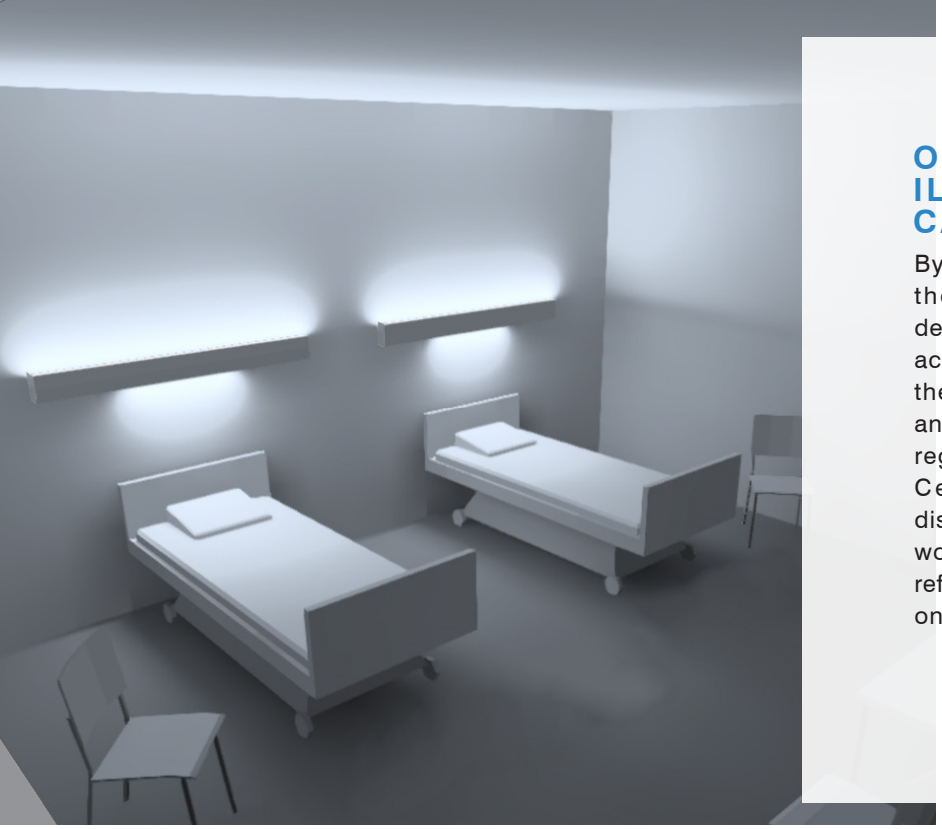
In order for the patient to be examined and medicated, it is necessary to have direct, localised lighting over the entire surface of the bed.

Also not to be overlooked is the need for relaxation of the person forced to spend long periods of time lying in bed.

HUMAN CENTRIC LIGHTING

The HCL principle is very popular in hospitals and nursing homes, especially where access to natural light is very limited. The lighting systems are designed to faithfully reproduce the natural light cycle, replicating the same colour and intensity of light during dawn, afternoon and dusk.





OUR SERVICE ILLUMINOTECHNICAL CALCULATIONS

By means of the lighting calculation, the company can verify during the design phase that the illuminance levels achieved by the bedhead units, within the hospital environment, are correct and suitable as required by the relevant regulations.
Certain data, such as luminance distribution, the amount of light on the working plane and surrounding areas, reflection and glare factors, will be visible on the project and easily verifiable.

REFERENCE REGULATIONS

- 93/42/EEC
Medical Device Directive

- CEI EN 60601-1
Medical electrical equipment

- UNI EN ISO 11197
Medical power supply units

- EN 60598
Lighting equipment

- EN 62471
Photobiological safety

- EN 55015, EN 61000
Electromagnetic compatibility

- UNI CEI EN ISO 14971
Medical Devices
Application of Risk Management
to medical devices

- UNI CEI EN ISO 13485
Medical devices
Quality management systems
Requirements for regulatory purposes

ITALCERT

Notified Body n° 0426

CERTIFICATE N° 074-02-02-DM
(In compliance with Annex II of the Directive 93/42/EEC)

ITALCERT

certifies the

Full Quality Assurance System
applied for the design, manufacture and final inspection
of "Medical Devices" - MD -

by the manufacturer

ATENA LUX S.r.l.
Via Giai, 33 – 30020 GRUARO (VE) - ITALY

in the headquarters located in

via Giai, 33
30020 GRUARO (VE) - ITALY

complies with the requirements stated in

Directive 93/42/EEC - Annex II (excluding point 4)

and authorizes the same manufacturer to mark

CE 0426

in compliance with the criteria defined in Annex XII of the Directive 93/42/EEC
the MD reported in Annex 1 of this Certificate

dr. ing. Roberto Cuscito
MANAGING DIRECTOR

First issue date	Renewal date	Current Emission	Expire date
2006-02-05	2018-02-06	2019-04-18	2023-02-04

Reference regulations:
UNI EN ISO 13485
UNI EN 7396-1
EN ISO 13585

PREPIPING

In order to cope with the need to implement medical gases, ATENA LUX class IIa and IIb devices are manufactured in such a way as to integrate the circuit and the technical gas intakes inside them, allowing the installation of 1 to 4 copper pipes for the distribution of oxygen, nitrous oxide, vacuum and compressed air.
However, in specific cases, it is possible to request pre-piping, i.e. the insertion and welding of the copper pipes to the gas intakes inside the bedhead units. This activity takes place directly within the factory and is carried out by qualified operators during the production of the bedheads.

BEDHEAD UNITS FOR IN-PATIENT AND INTENSIVE CARE ROOMS

Electrical installations in rooms used for medical purposes must comply with the requirements of CEI 64-8. This standard defines which rooms are used for medical purposes and their classification into 3 groups.

GROUPS

ATENA LUX bedhead units are considered medical supply units and as such are intended for the following groups:

0

A room for medical use in which no electromedical devices with applied parts are used, which therefore do not come into physical contact with the patient. This group includes specific luminaires for patient rooms and in particular for nursing homes: AIRWALL, STAIR, SKYWALL, HORIZON, WAY WALL, LEVEL.

1

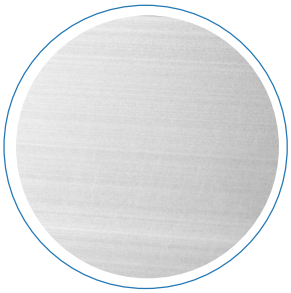
A room for medical use in which applied parts are intended to be used externally or invasively in any part of the body except the cardiac area. The ATENA LUX bedhead units that can be configured according to group 1 rooms, intended for in-patient use, are: AIRWALL MED, AIRWALL CALL MED, AUXILIA, SENSE, SANIMED, HARMONY, THERAPY, TRIAL.

2

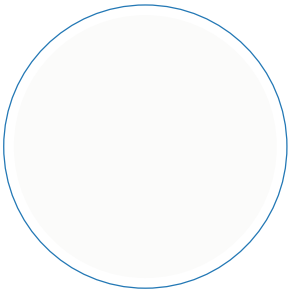
A room for medical use in which applied parts are to be used for surgical operations or the patient is undergoing vital treatment, where the lack of power supply can be life-threatening. These bedhead units are manufactured complete with protection of each individual electrical socket; FM circuit divided into 2 circuits; mains presence signalling LED on each electrical socket. This group includes all hospital bedhead models (AUXILIA, SANIMED, ARMONIA, THERAPY, TRIAL), the configuration of which has the suffix .2.

CUSTOM
SURFACE TREATMENTS

PAINTING OR ANODIZING
ATENA LUX bedhead units can be anodized or painted. First of all, they are brushed and anodized in natural color: we talk about anodizing with reference to the process in which aluminium passes from its state of metal to the one of concrete surface by modifying the molecular structure, making its external surface definitely stronger.
Alternatively, bedhead units can be painted with polyester powders, UV rays stabilized and thermosetting at 180°C, with degreasing, phosphating and washing treatment.



Anodized
natural aluminium



RAL 9010
mat white

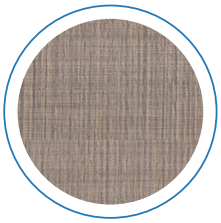
ANTI-MICROBIAL PAINTING
On request, it is possible to paint the devices with special paints with anti-microbial effects. This constantly protects the surfaces from bacteria, viruses, fungi and algae.

Differently from the common anti-bacterial paintings, this painting maintains its function unaltered across the years. It acts thanks to metal ions that are present in the powder paint film becoming active on the surface of the interested product, when a residual environmental humidity occurs. When the microbial organism comes to the surface, it is destroyed by the constant action of these long lasting ions, allowing the protection and the prophylaxis against parasites.

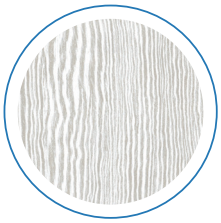
FINISHINGS
MDF WOOD FINISHINGS

Our products ARMONIA, SANIMED and WAY WALL can be customized with the MDF wood panel.
For these products it is possible to request a finish in line with the aesthetic and architectural taste of the rooms. Below we propose a choice of standard solutions, for specific needs other finishes are available on request.

Durmast



Promenade



Larch

ACCESSORIES

INOX STEEL WALL MEDICAL RAILS
› Dimensions: section 25x10 mm
› Weight: 1,5 Kg/ml
› Maximum capacity: 100 Kg /ml
Maximum lenght: 3000 mm

WALL VERTICAL MEDICAL RAILS
› Tube diameter: 38 mm
› Rail height: 1000 mm
› Total weight: 2,3 Kg
› Maximum load capacity: 65 Kg per rail

STAINLESS STEEL SLIDING HOOK

› Maximum load capacity: 15 Kg

UNION MODULE FOR AUXILIA AND SENSE BEDHEAD BEAMS

NURSE CALLING SYSTEM

Atena Lux supplies the bedhead units complete with a call system keypad integrated. The optional accessories of Atena Lux bedhead units are defined during design stage and they can be modified according to the circumstances.
Modules with buttons and call system keypad can be furnished according to the specific call system required by the customer.
The suggested teach has between one and three commands allowing the patient to call for nurse and service assistance (one command), together with the independent starting or turning off of the general and reading light (two and three commands). In models with more commands, the lighting control is provided by the installation of an electronic command in a lighting control relay.

› The teach has a 2-meter-long electric cable and a 7 poles spiral hook to guarantee a quick disconnection. When an accidental tear occurs, this avoids also the breaking of the 6 poles DIN socket connector located directly on the bedhead unit.

› The DIN hook integrates itself with the lighting fitting without the use of an external plate, maintaining the elegance of the product and allowing the homogeneity of elements.

› Thanks to the ergonomic design and to the simplified handle, the cleaning and the maintaining of the teach results easy.

AUXILIA

Intensive care

Inpatient care

AUXILIA is a modular bedhead unit that consists of three profiles dedicated to lighting functions, the housing of electrical consumers, and the provision of terminal units for medical gases.

SENSE

Inpatient care

This bedhead unit, made from a single channel, contains all lighting, electrical utilities and medical gas distribution functions within it.

Intensive care

Inpatient care

TRIAL

Medical device designed for group 2 medical premises such as anaesthesia, surgery, intensive care, angiography and haemodynamic examination rooms. TRIAL is a modular solution consisting of up to three aluminium profiles inside which electrical consumers, medical gas system and call system are accommodated in an orderly and structured manner.

Intensive care

Inpatient care

THERAPY

This bedhead unit is a flexible solution consisting of a profile that can be adapted to different types of installation: wall, recessed, suspended. THERAPY makes maximum use of space and allows for an orderly arrangement of equipment around the bedside.

SANIMED

Intensive care

Inpatient care

The SANIMED vertical bedhead unit consists of a steel supporting structure inside which medicinal gases and electrical distribution are housed in an orderly and separate manner.
The front panel made of MDF can be customised according to the technical and aesthetic requirements of the customer.

ARMONIA

Intensive care

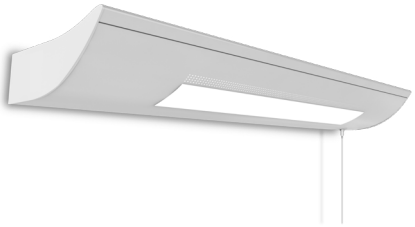
Inpatient care

ARMONIA is a multifunctional panel designed to be a valuable medical lighting element, presenting the characteristics of a customisable design and elegant finish.

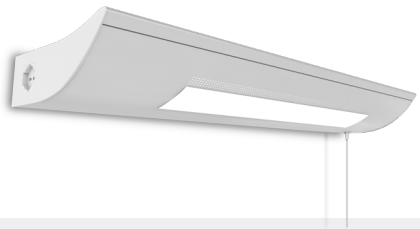
AIRWALL

Inpatient care

Thanks to its simple and elegant lines, AIRWALL fits perfectly into nursing homes, retirement homes and rehabilitation facilities, making the environment more modern and homely.



CALL



CALL MED

STAIRCARE

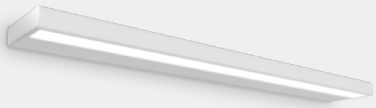
Inpatient care

Direct and indirect light bedhead unit with a simple, linear design that harmonises with the styles and needs of nursing and retirement homes. STAIR CARE consists of two aluminium profiles housing LED light sources for ambient light, reading light and optional night light. With a customised colour finish, STAIR CARE is not just a bedhead unit but becomes a protagonist within the room.

SKYWALL

Inpatient care

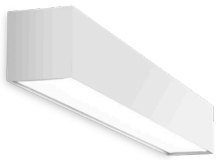
Direct and indirect wall light characterised by a slim, minimalist body.
The appropriately directed direct light (wallwasher) ensures ideal illumination for healthcare personnel and at the same time optimal visual comfort for the patient.
SKYWALL represents the right balance between design and technology for environments where discretion is of absolute importance.



HORIZON

Inpatient care

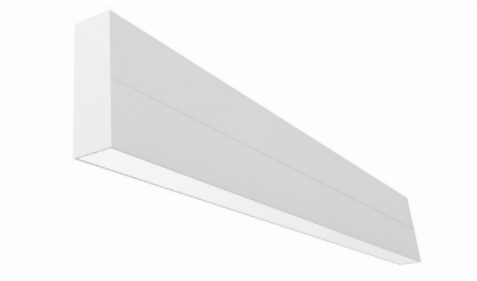
A simple wall light providing direct and indirect light with linear and square shapes. Intended for the patient rooms of retirement and nursing homes, it is also easily applied in meeting and gathering rooms, such as dining rooms and recreation rooms. HORIZON provides a soft, comfortable light that makes the environment familiar and relaxing.



Inpatient care

WAY WALL

Wall light with direct and indirect light, made from a double extruded aluminium profile, with reduced dimensions. For the ward room, thanks to the MDF wood accessory panel, WAY WALL becomes not only a headlamp but also a decorative furnishing element that blends easily into the environment. Its clear and simple lines make this wall light an efficient and flexible solution.

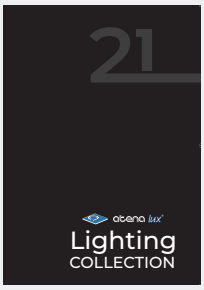


Inpatient care

LEVEL

LEVEL is a bedhead unit with a fine and elegant design, ideal for installation in care homes where no special functions are required. LEVEL is a safe product that allows rooms to be illuminated simply and efficiently, guaranteeing optimal lighting.

CATALOGUES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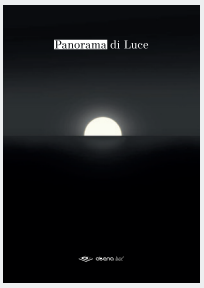
atena lux
Lighting
COLLECTION


HEALTH
CARE
Lighting and
Bedhead Units
atena lux


SANITIZATION DEVICES
atena lux


Panorama di Luce
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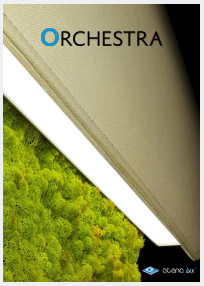
Circle Mania
atena lux


CUBE
Mania
atena lux


Street LED
atena lux


ORCHESTRA
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EXTERNAL SOLUTIONS
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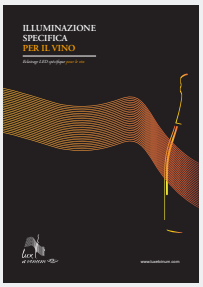
ILLUMINAZIONE
SPECIFICA
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21
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