

GERMAN FLEXIBLE NOSEPHARYNGOSCOPE

• **71602 LUT FLEXIBLE NOSEPHARYNGOSCOPE** with cable
It includes fibre optic cable and rigid case for transport, conventional image guide system, 2 way deflection, one hand operation, completely soakable. Resolution: 7,000 pixels.

TECHNICAL SPECIFICATIONS 71602

Working length: 300 mm Working Ø: 3.2 mm
Tip deflection: up 140°, down 140°
Length of tip deflection: 20 mm
Direction of view: 0° Field of view: 70°
Depth of focus: 6 mm - ∞ Weight: 260 g
Made in Germany

• **71610 ENDOSCOPY MOUTHPIECE** - bag of 20 pcs
Disposable bite blocks



PHARYNGO-LARYNGOSCOPES - MADE IN GERMANY



- **71680 TELE-PHARYNGO LARYNGOSCOPE** Ø 10x153 mm - 70°
- **71681 PHARYNGO-LARYNGOSCOPE** Ø 8x164 mm - 70°
- **71682 PHARYNGO-LARYNGOSCOPE** Ø 6x164 mm - 70°

Sharp image, significant depth of field
- high performance illumination, German quality
- two different degrees of magnification:
panoramic view and examination of details (only 71680)
- integrated air channel for prevention of misted objective (only 71680)
- soakable and designed for gas sterilization
- working distance 15 mm to ∞

Pharyngo-laryngoscopes and endoscopes can use as illumination system flyer handles (direct connection) see below or light sources. For use with Gima light sources (30801-2) you need F.O. cable (30818-30826) adaptor cable to light source (30830) adaptor pharyngo-laryngo to cable (30840).

RIGID ENDOSCOPES



LIGHT SOURCES HANDLES

• **71690 LUT LED LIGHT SOURCES**
Ultra-bright LED light source. Highest light efficiency by optimized light coupling to endoscope. Adjustable intensity, roll-off protection, small, handy, for all LUT endoscopes. Supplied with battery and charger. Made in Germany, LUT.

TECHNICAL SPECIFICATIONS
LED high power lamp 20,000 lux
Color temperature: 5,500 Kelvin
Illumination period: approx. 45 min
Intensity infinitely adjustable
Light guide connection to Storz-adaptor thread
Li-Ion, 950 mAh, rechargeable battery
Charging time: approx. 2 hours
Size 89x24
Weight: 90g

- **30795 FLYER HALOGEN HANDLE 2.5 V** - light source for endoscopes
- **30794 FLYER LED HANDLE 2.5 V** - light source
Powerful handheld light source for endoscopes. 60,000 lux.
Both flyer handles need 2xAAA batteries.

MEDICAL CERTIFIED CAMERA



- **72509 COMPACT PAL CAMERA C1, + smartbox - SVHS**
- **72511 DIGITAL COMPACT PAL CAMERA C1, Anti-Moiree, + smartbox - CVBS/USB 2.0**
Camera electronics integrated in camera head, small smartbox as connection unit. Camera head with two buttons: white balance and window function. Made in Germany.
- **72708 SONY LMD - LCD MONITOR 15"**

LUT GmbH
Leben und Technologie

TECHNICAL SPECIFICATIONS

Outputs: 1x S-Video (Y/C),
1x Video (CVBS)
1x USB 2.0 (only for 72511)
Image sensor: 1/3" CCD
Image resolution: 470x420 (PAL)
Endocoupler: f=23

Norms: 93/42 EWG Class 1,
EN 60601-1; BF/CE mark
Power: 100-250 VAC, 50/60 Hz, 2 VA
Sizes: Smartbox: 80x34x170 mm
Camera head: 135x Ø 50 mm
Camera cable: 3m

VIDEO BRONCHOSCOPE

- **72515 VIDEO BRONCHOSCOPE**
The LUT video bronchoscope includes all standard features such as 2-way tip deflection, working channel and suction valve. Incorporates two innovations:
- **CHOS Chip-in-the-Tip Video Technology** which delivers a full format Image
- a revolutionary integrated **DeepVu LED Illumination System** which produces a new dimension of illumination strength.
- **28243 SUPER VEGA BATTERY** (see page 135)

STANDARD ACCESSORIES

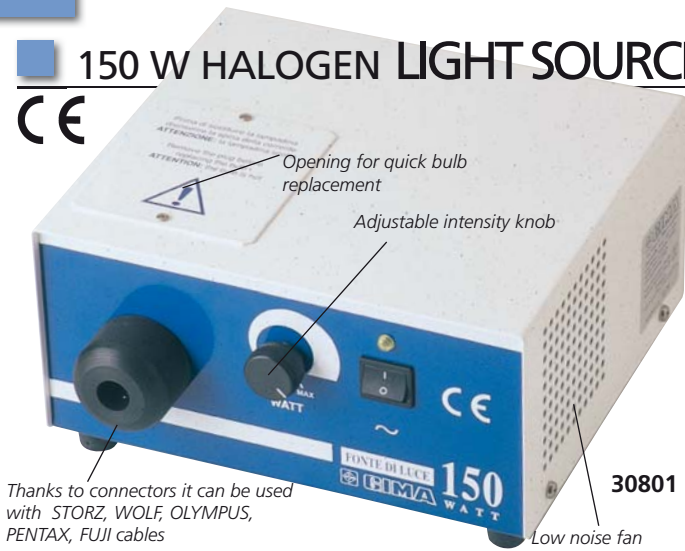
Video Bronchoscope VB100
Controller EC100 (plug and play)
Biopsy forceps with thorn
Biopsy forceps without thorn
Bite block
Cleaning brushes
Leakage tester
Video connection cables
Carrying case

TECHNICAL SPECIFICATIONS

Image sensor: 1/18" CMOS
Image resolution: 82.000 pixel
Distal and outer Ø: 5,9 mm
Deflection: up 210°
down 130°
Working length: 600 mm
Working channel: 2,2 mm
Direction of view: 0°
Field of view: 120°



150 W HALOGEN LIGHT SOURCES



Opening for quick bulb replacement

Adjustable intensity knob

Thanks to connectors it can be used with STORZ, WOLF, OLYMPUS, PENTAX, FUJI cables

30801

Low noise fan

• 30801 GIMA LIGHT SOURCE 150 Watt

Compact, lightweight, powerful light source for endoscopic use. Equipped with a 150 watt halogen bulb. It has a small opening on the upper side for easy and quick replacement. A low noise fan positioned behind the halogen bulb provides the necessary cooling inside the metallic structure of the light source. A variable-intensity regulator enables selection 50 to 150 W. User manual in English, Spanish, French, Italian, Greek, Portuguese.

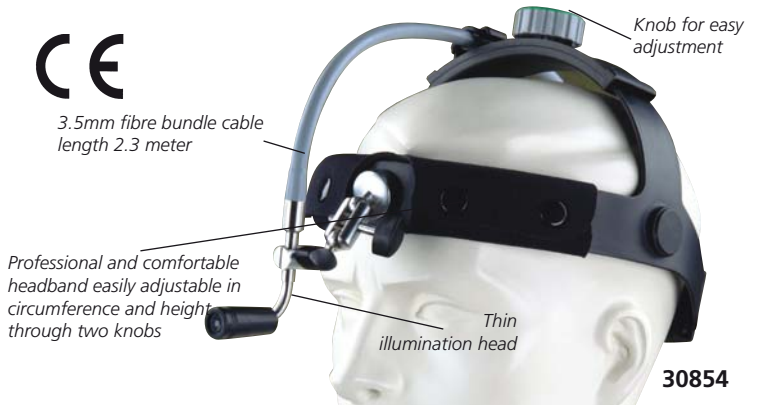
• 30802 GIMA DOUBLE LIGHT SOURCE 150 Watt x 2

Similar to 30801, but with 2 independent bulbs, to illuminate at the same time 2 instruments or to quickly change if one bulb burns out.



GIMA code	CONNECTORS FOR GIMA LIGHT SOURCE TO DIFFERENT CABLES	TECHNICAL SPECIFICATIONS
30810	STORZ cable connector	Input for GIMA, SCHOLLY and LUT cables Dimension: 21x20x h 11 cm / 29x20.7x h 13.5 cm Max power absorption: 170 Watt / 340 Watt Two protection fuses: 1.6 A.T. Power supply: 230V-50 Hz Norms: IEC 601-1 - 93/42/EEC (Class: I - Type: BF) Made in Italy: GIMA S.p.a.
30811	WOLF cable connector	
30812	OLYMPUS cable connector	
30815	PENTAX cable connector	
30808	Spare lamp for GIMA light source	

F. O. HEAD LIGHTS



3.5mm fibre bundle cable length 2.3 meter

Knob for easy adjustment

Professional and comfortable headband easily adjustable in circumference and height through two knobs

Thin illumination head

30854

- 30850 WIDA FIBRE OPTIC HEAD LIGHT
- 30854 WIDA PLUS FIBRE OPTIC HEAD LIGHT

fibre optic cable complete with head light system
 WIDA illumination systems are available in two versions: one with simple headband and standard illumination head, the other with professional headband, easily adjustable, and thin head. Both include F.O. cable with adaptor for connection to GIMA light sources (30801-30802).

Here below are available connectors to other light sources.

Light beam can be focused through a focusing ring.

- 30852 FOCUS DEVICE for 30850 (since lot 14 - may 2012)

It reduces light in a very luminous spot Ø 10 mm.

Diameter focus:		
DISTANCE	30850	30854
20 cm	7-15 cm	6-10 cm
30 cm	10-22 cm	9-15 cm
50 cm	16-35 cm	14-20 cm

An exceptionally bright headlight with an illumination head for coaxial, shadow-free illumination of the viewing area.



Illumination axis adjustable over a wide range

Headband is padded and fully adjustable in circumference and height.

30850

SURGICAL FIBRE OPTIC LIGHT CABLES AND ADAPTORS



Autoclavable silicone cable

Endoscope adaptors (on the cable)

Light source adaptors

① LIGHT SOURCE ADAPTORS to connect GIMA F.O. cables to light sources

- 30830 GIMA light source adaptor

- 30831 STORZ - AESCULAP - MARTIN light source adaptor

- 30832 WOLF - HENKE SASS - DYONICS - MEDICON - COMEG light source adaptor

- 30833 OLYMPUS light source ad.
- 30834 ACMI light source adaptor
- 30837 PENTAX light source ad.

② ENDOSCOPE ADAPTORS - on the cables to connect endoscopes to GIMA F.O. cables

- 30840 ENDO STORZ adaptor

- 30841 ENDO WOLF adaptor

- 30842 ENDO ACM, OLYMPUS-STRYKER adaptor

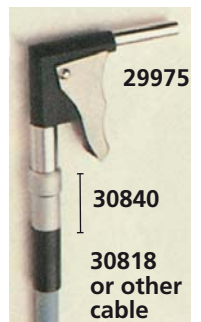
- 30817 FIBRE OPTIC CABLE 3.5 x 1,800 mm
- 30818 FIBRE OPTIC CABLE 4.8 x 1,800 mm
- 30822 FIBRE OPTIC CABLE 3.5 x 2,300 mm
- 30823 FIBRE OPTIC CABLE 4.8 x 2,300 mm
- 30826 FIBRE OPTIC CABLE 4.8 x 3,000 mm

High transmission surgical light cables, armoured but highly flexible with unique features:

- no burn outs
- strain relieved and protected by silicone hose
- steam autoclavable with warranty (12 months)
- light source end temperature resistant up to 300°C
- kink resistant
- no electrical interferences with endoscopic surgery units
- surgical stainless steel end fittings resist wear and corrosion
- stainless steel adaptors enables our cables to be used with other manufacturers halogen light sources/instruments

③ 29975 FIBRE OPTIC CLAMP

- 29975 FIBRE OPTIC CLAMP
- 30844 STORZ/LUT ENDOSCOPE ADAPTORS
- 30845 WOLF ENDOSCOPE ADAPTORS



29975

30840

30818 or other cable

GIMA AC/DC TRANSFORMER

• 31130 GIMA 6 AC/DC TRANSFORMER

This is a real transformer for Clar and Storz mirrors, Nystagmus glasses and any instrument which requires from 1.2V to 10V dc 500 mA power. Made in Italy.

TECHNICAL SPECIFICATIONS

Absorption: 6.6 Watt
 Size: 163x105x60 mm
 User manual: English, Spanish, French, Italian, Greek, Portuguese.

Power supply: 230 V - 50 Hz
 Norms: 93/42/EEC



31130

GIMA ENT HEAD MIRRORS FOR BATTERY OR AC/DC TRANSFORMER USE

These new generation quality head mirrors Ø 55 or 100 mm perfectly illuminate the examination area in every situation. Long life 6V lamp provides bright and natural light, quality silver coated mirror allows optimum light reflection. Mirror and light beam can be easily and precisely adjusted. Ergonomic and comfortable head band fits any head size. Supplied in a carrying plastic case with all accessories.

STANDARD ACCESSORIES	LUX AC/DC TRANSFORMER 31110-31111	LUX BATTERY* 31108-31109
Mirror with head band	•	•
Long life bulb	•	•
Extension cable 2 m (to transformer)	•	•
Extension cable with on/off switch 30 cm	•	•
Head band mounted battery case for 2 x 3V CR-123A	•	•
Plug in transformer 100/240V - 50/60 Hz with cable	•	•

*Battery not included

GIMA code	LUX ENT MIRRORS
31108	LUX-55 battery head mirror - Ø 55 mm - 6V
31109	LUX-100 battery head mirror - Ø 100 mm - 6V
31110	LUX-55 AC/DC transformer head mirror - Ø 55 mm - 6V
31111	LUX-100 AC/DC transformer head mirror - Ø 100 mm - 6V
31114	Mirror for LUX-55 - spare
31115	Mirror for LUX-100 - spare
31116	Bulb for LUX mirrors - spare
31117	Battery case - with extension cable 80 cm for 31112/3
31119	Carrying case for LUX mirrors

USE WITH TRANSFORMER

31110

Simple adjustment using rotating knob

USE WITH BATTERY

31108

Supplied with head band mounted CR-123A battery box 6V (2 x 3V)

Supplied with plug-in transformer for direct power. Can be used with GIMA 6 AC/DC transformer for perfect light intensity adjustment.

Silver coated mirror produces extremely bright light

Storz type head mirror

Simple adjustment using rotating knob

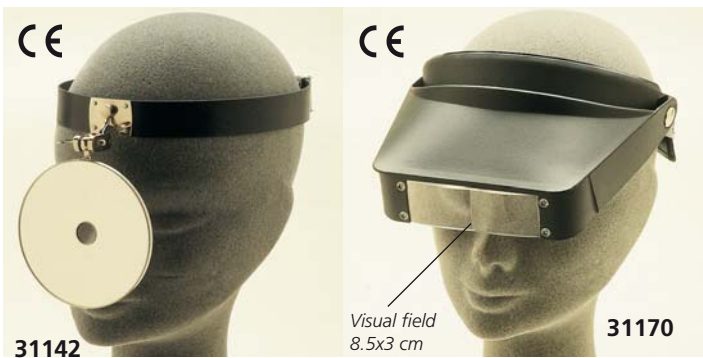
Comfortable, padded head band easy to remove for cleaning

Simple adjustment using rotating knob

Silver coated mirror produces extremely bright light

Clar type head mirror

ZIEGLER MIRROR AND HEAD LOUPE



• 31142 ZIEGLER MIRROR - Ø 90 mm

Concave back-silvered mirror, 90 mm diameter with 13 mm diameter hole, on adjustable band. Special mount permits replacement of glass mirror in event of breakage. Made in Germany.

• 31170 HEAD LOUPE two magnifying systems (2.2X and 3.3X)

The system is mounted on an adjustable webbing head band and provided with two separate lenses. The first lens provides a 2.2X magnification, moving down the second lens, we reach a total 3.3X magnification. The superior quality of this lens permits high precision examinations. The HEAD LOUPE magnifying system can be used in combination with any kind of glasses. Working distance: 30 cm. Made in Japan.

VISION XENON HEADLIGHT

BULB APPROVALS

Battery headlight with rigid head band

30856

Height and inclination angle adjustable

• 30856 VISION PLUS XENON LIGHT

Cordless lightweight battery headlight with Xenon incandescent lamp suitable for mobile purpose and ENT examinations. Provides an intensive and white light as well as a simple and comfortable handling. A special mirror focuses the beam to a concentrated spot.

• 30857 SPARE BULB for VISION

• 32201 "AA" ALKALINE BATTERIES - blister of 4 pcs

TECHNICAL SPECIFICATIONS			
Weight: 160 g (incl. batteries)	At working distance:	20 cm	30 cm
Power supply: 2x alkaline batteries size AA (included)	Spot-Ø	50 mm	65 mm
Bulb: 6,000 candle power Xenon lamp (7 lumens)	Intensity:	3,200 lux	1,500 lux
Colour temperature: approx. 3,200° K			
Rigid adjustable headband			

1 W LED HEADLIGHTS

• 30858 LED HEADLIGHT

Run time: High mode: 3 hours - Low mode: 15 hours
 Luminous intensity: 100 lumens (high) or 36 lumens (low)
 30 feet drop test
 Super bright CREE cool white LED
 MCU control push switch (High/Low/Off)
 PC material body with rubber head for maximum durability
 Compact and lightweight headlight only 65 g
 60° pivoting head
 Passed extreme temperature shock test
 IPX4 water resistant
 10,000 switch cycle life
 Lighting leakage design when forget to turn off switch



GIMA LED HEADLIGHT



7 hours continuous run-time on a fully charged battery

50,000 LUX at 250 mm

6,000° KELVIN

Lightweight: 70 g

Adjustable light intensity

Adjustable light spot at 420 mm with iris diaphragm: 20-90 mm

30890

- 30890 GIMA LED HEADLIGHT - 5W
 - 30891 BATTERY PACK - for 30890 up to LOT 000009 (Aug. 2013) - spare
 - 30889 BATTERY PACK - for 30890 from LOT 000010 (Sept. 2013) - spare
- Led lamp without the heat of traditional halogen headlight. With a colour temperature of 6,000 °Kelvin, it provides bright, white, shadow-free light allowing the doctor to see tissue characteristics without distortion. Flexibility of operation using the rechargeable lithium battery, instead of direct power source. Comfortable lightweight headlights suitable for all kinds of surgery, ENT or dental applications. The headlight can be used when it is charging, it also has low-battery indicator light. Adapts to GIMA binocular loupes (codes 30892-98). Smart design, convenient for mobile diagnosis. Supplied in aluminium box with rechargeable 7.4V/4,600mAH lithium battery and recharger.

TECHNICAL SPECIFICATIONS

Illumination light spot at 420 mm: 20-90 mm
 Illumination in 250 mm working distance: ≥ 50,000 lux
 Adjustable range
 Fluctuation distance: 12.5 mm
 Angle range: vertical ± 25° adjustable
 Weight of headlight (excluding head band): 69 g
 Illumination source: extremely bright light, 5 W LED, life 25,000 hours
 Battery: 7.4 V/4,600mAH lithium battery
 Battery run-time: not less than 7 hours continuous run-time on a fully charged battery (charging time: 5 h)
 Voltage: 100-240 VAC, 50-60 Hz
 Maximum input power: 15 W
 Power adapter output: DC 12 ±0.5 V, 1.5 A
 Electrical safety standard: IEC60601.1, class II type BF equipment



User manual in English, French, German, Italian, Spanish, Portuguese, Greek, Arabic

GIMA BINOCULAR LOUPES

BINOCULAR LOUPES:

Light weight, ergonomically superior Galilean-style flip-up loupes. Can be used independently or mounted on 30890. Multi-coated and high grade glass lenses provide clean and sharp image. Eyepiece with wide field of view. Deep focus to see object stereoscopically. Loupes angles can be easily adjusted between 0° and 40° to minimize fatigue even after prolonged use. 6 mm up and down displacement. Adjustable pupil distance to fit different face types.

STYLE BINOCULAR LOUPES:

Line of binocular loupes with same features of traditional line but mounted on a extra light, fashionable frame.



30897



All binocular loupes are supplied in a case

30910

GIMA code	BINOCULAR LOUPES	Magnification	Working distance	Field of view Ø
30892	Binocular Loupe	2.5X	340 mm	80 mm
30894	Binocular Loupe	2.5X	420 mm	100 mm
30897	Binocular Loupe	3.5X	340 mm	65 mm
30898	Binocular Loupe	3.5X	420 mm	80 mm

GIMA code	STYLE BINOCULAR LOUPES	Magnification	Working distance	Field of view Ø
30910	Style binocular Loupe	2.5X	340 mm	80 mm
30911	Style binocular Loupe	2.5X	420 mm	100 mm
30914	Style binocular Loupe	3.5X	340 mm	65 mm
30915	Style binocular Loupe	3.5X	420 mm	80 mm

RIESTER RI-FOCUS LED HEADLIGHT

• 30881 RI-FOCUS LED HEADLIGHT - with rechargeable batteries

High performance LED headlight with battery compartment for fast and easy change of battery. Flexible hinge for a comfortable one-hand use of the LED illumination body.

- more efficient diagnosis due to white and high performance LED with up to 100,000 LUX and 50,000 hours lifetime
- wireless headband with built-in battery compartment
- particularly comfortable with balanced headband and one-hand operation
- focusable LED lamp at a distance of 40 cm approx Ø 40 mm to 200 mm infinitely focusable
- white LED with 6,000 °Kelvin, 140 lumen
- significantly less heating and energy loss
- rechargeable battery operation: approx 90 min with fully charged batteries

Rechargeable AAA batteries and plug in 230V charger included



On/off switch on the battery compartment

Removable and washable inner padding

Weight 210 g without batteries

Made in Germany

30881

TECHNICAL SPECIFICATIONS

Distance:	400 mm	200 mm
Lux max:	10,000	23,000
Circle of light max Ø:	200 mm	120 mm
Circle of light min Ø:	40 mm	30 mm

HEINE LED HEAD LIGHT

POWERFUL LED ILLUMINATION

50,000 LUX at 250 mm



30885

- **30885 HEINE 3S LED HEAD LIGHT - J.008.31.313**
Ultra bright and compact HEINE 3S LED HeadLight for powerful, coaxing illumination. - **50,000 Lux of bright, white light:** With a reference colour temperature of 5,600 Kelvin and an extraordinary 50,000 Lux of illumination, the 3S LED HeadLight is more than twice as bright as conventional Headlights - **Compact and Light-Weight:** The compact design ensures clear, unobstructed coaxial illumination. The 3S LED HeadLight weighs only 70 grams ensuring user comfort even during prolonged use.
- **Flexibility:** Continuously adjustable spot size and brightness control. Mains or 10 hours operating time with mPack® power supply. Rechargeable battery pack and direct mains transformer included.

- **30886 HEINE BINOCULAR LOUPE 2.5X-340mm - J.000.31.370**
- **30887 HEINE BINOCULAR LOUPE 2.5X-420mm - J.000.31.371**

TECHNICAL SPECIFICATIONS

Power supply:	mPack® Rechargeable Battery Pack with NiMH battery and direct mains transformer
Illumination:	50,000 lux at a working distance of 250 mm
LED operating life:	20,000 hours
Spot adjustment:	20 mm to 130 mm illuminated field diameter (at 500 mm)
Colour temperature:	5,600°K Made in Germany

HEINE BINOCULAR LOUPES



30930
30931

Eyepieces individually adjustable

Super-Wide, Super-deep field of view. **2.5X loupes** offer an excellent balance between high magnification, field of view, depth of field, and ease of use, ideal for a wide range of applications such as dental, ophthalmic, cosmetic and reconstructive surgery.



Only 78 g

30932

4.0X magnification: 4.0X loupes provide magnification for most advanced micro-surgical and dental applications yet still offer a large 50mm field of view. The 340mm working distance is ideal for applications where the user is in a sitting position.

HEINE binocular loupes set standards for innovative optics combined with high-tech materials and production techniques. A wide range of applications: general medicine, dermatology, minor and some major surgery, plastic surgery, neuro-surgery, ENT, ophthalmology, veterinary medicine, dentistry etc. The use of magnifying loupes will increase your visual acuity and reduce eye strain. Careful selection of working distance and correct viewing angle will avoid back and neck strain by allowing a comfortable working position.

Set content: optics, S-frame with i-View loupe mount, detachable protective lenses, 2 sterilisable swivel levers, retaining cord, cleaning fluid, carrying case.



GIMA code	BINOCULAR LOUPES	Magnification	Working distance	HEINE code
30930	Heine binocular loupes	2.5X	340 mm	C-000.32.355
30931	Heine binocular loupes	2.5X	420 mm	C-000.32.356
30932	Heine binocular loupes	4X	340 mm	C-000.32.431

IUKO VISION MODULAR SYSTEM

VISION MODULAR SYSTEM

A unique modular system for all your needs. You can combine elements to protect, magnify, light up, ... Any component can be used independently or combined with one or more.

PROTECTIVE SHIELD
TETI - 30860

MAGNIFYING GLASSES
DANAE - 30861

TELESCOPE + PROJECTOR + SHIELD



- provide protection from squirts and spray
- extremely light 130 g and comfortable
- folding shield behind the nape
- can fit over your glasses



- optical system with magnifying glasses
- can fit over your glasses
- light, only 83 g
- adjustable to any face shape
- compatible with TETI

GALILEIAN TELESCOPES

ADJUSTABLE PROJECTOR
IRIDE 30867



CALLIOPE
30864/5/6

- magnifying optical system with Galileian telescopes
- waterproof telescope
- compatible with TETI



- adjustable LED light projector
- 2 different brightness intensity (30,000 and 50,000 lux at 25 cm, autonomy 6 and 4 hours)
- 6,500°K temperature
- autonomy 4 hours at maximum power
- battery pack placeable on the head band
- compatible with TETI

You can create below system adding protective shield (TETI) to telescope+projector (NIKE)



30870/1 + 30860



30870/71

TELESCOPE + PROJECTOR
NIKE 30870/1

This system includes Galileian telescope (CALLIOPE) and LED light projector (IRIDE)

GIMA code	VISION MODULAR SYSTEM
30860	TETI - protective shield (2 shields included)
30861	DANAE - magnifying glasses with 3 lens (1.7, 2.2, 3 X)
30864	CALLIOPE - Galileian telescope 3X - dental (working distant 35 cm)
30865	CALLIOPE - Galileian telescope 3X - surgical (working distant 45 cm)
30866	CALLIOPE - Personalized Galileian telescope: magnification from 2X to 3X, working distance from 28 to 60 cm - specify with order
30867	IRIDE - LED light projector
30870	NIKE - Galileian telescope 3X (35cm) + projector
30871	NIKE - Galileian telescope 3X (45cm) + projector
30875	Set of 5 transparent face shields - spare
30876	Battery pack - spare