The TITAN's 400 watts of Bright White light is the only lightsource on the market that delivers this amount of light to the surgical site.

- TITAN Ceramic Xenon Lamp
- New Heat Sink Technology
- 1,000 hour lamp prorated warranty
- Lamp Hour Meter mounted on Lamp Module.
- Advanced Air Flow
- Consistent High Lux Output
- Extends lamp life
- Reduces cost of ownership
- Whisper Quiet Operation
- Enhanced Safety Turret
- Recessed Multiple App

The TITAN's 300 watts of Bright White light is superior to any other 300 watt system in the market due to the advanced optic design.

- TITAN Ceramic Xenon Lamp
- New Heat Sink Technology
- 1,000 hour lamp prorated warranty
- Lamp Hour Meter mounted on Lamp Module.
- Consistent High Lux Output
- Extends lamp life
- Reduces cost of ownership
- Whisper Quiet Operation
- Advanced Air Flow

180 watts of Bright White light
Enhanced Quality
Whisper Quiet Operation

- Consistent High Lux Output
- 650 hour lamp prorated warranty
- Advanced Air Flow
- Superior Design
- Reliable
- Whisper Quiet
- Quality, Performance and Advanced Aesthetics
TITAN Xenon 400
High Performance Lightsource

- Lamp Type: Ceramic 400 Watt Xenon (With Lamp Hour Meter on Module)
- Lamp Power Rating: 400 Watts
- Lamp Color Temperature: 5,600K
- Lamp Warranty: 1000 Hours Prorated
- Front Panel Controls: On/Off Switch, Attenuator Control, Turret
- Input Voltage Range: 100 – 120 VAC 50 /60Hz, 220–240VAC 50Hz
- Power Consumption: 720 Watts
- Regulatory: UL60601, EN 60601-1, EN 60601-1-2, CAN/CSA, C22.2, No 601.1-M90, CE
- Operating Environment: +10° to +40° C (50° to 104° F) 30 to 85% 700 to 1060 hPa
- Dimensions: 355mm (14") W x 130mm (5") H x 250mm (10") D
- Weight: 6.98 kg (15.4 lbs)
- Rear Panel Display: Resettable Lamp Age Meter

TITAN Xenon 300
High Performance Lightsource

- Lamp Type: Ceramic 300 Watt Xenon (With Lamp Hour Meter on Module)
- Lamp Power Rating: 300 Watts
- Lamp Color Temperature: 5,600K
- Lamp Warranty: 1000 Hours Prorated
- Front Panel Controls: On/Off Switch, Attenuator Control, Turret
- Input Voltage Range: 100 – 120 VAC 50 /60Hz, 220–240VAC 50Hz
- Power Consumption: 450 Watts
- Regulatory: UL60601, EN 60601-1, EN 60601-1-2, CAN/CSA, C22.2, No 601.1-M90, CE
- Operating Environment: +10° to +40° C (50° to 104° F) 30 to 85% 700 to 1060 hPa
- Dimensions: 355mm (14") W x 130mm (5") H x 250mm (10") D
- Weight: 6.0kg (13.2lbs)
- Rear Panel Display: Resettable Lamp Age Meter

TITAN Xenon 180 Lightsources also available

Ordering Information

- TITAN 400ST-K 400 Watt Xenon Lightsource, 4 Port Turret
- TITAN 300ST-K 300 Watt Xenon Lightsource, 4 Port Turret
- TITAN 180ST-K 175 Watt Xenon Lightsource, 4 Port Turret
- SSL0033T Floorstand for TITAN Lightsources
- SSX0040 Replacement Lamp Module for TITAN400
- SSX0035 Replacement Lamp Module for TITAN300
- SSX0049 Replacement Lamp Module for TITAN180

(for International use replace -K with required power cord plug)
TITAN RCS Headband

The New TITAN "RCS" Rear Cranial Support Headband provides enhanced comfort due to the light weight and flexible material. The new front to back crown support design allows for better module adjustment and stabilization. These features help minimize the fatigue that sets in during lengthy surgical procedures.

- Lightweight, Comfortable and the new "RCS" helps minimize fatigue
- BRIGHTEST Illumination Available
- Module spot sizes offered: 20mm-110mm and 20mm-140mm
- Headlight cables available in bifurcated and straight configuration
- Lensed 3.5mm fiber bundle with Grey armoured sheathing 9ft long
- Fused fibers on the proximal end increase transmission efficiency by 10%
- UltraGrip Handle eases cable removal from the lightsource and aids against fiber damage

TITAN Sport Headband

TITAN UltraGrip SPORT Headlight System provides bright illumination and superior performance along with the level of comfort and stability required by surgeons’ during surgical procedures.
TITAN RCS Headband Specifications

- Newly Designed Lightweight Headband with Rear Cranial Support for added comfort
- Headlight Module with 20mm-110mm Variable Spot @ 16”
  Also available in 20mm-140mm Variable Spot
- Fused 3.5mm Bifurcated UltraGrip Cable 9’ Long with Wolf Lensed Proximal End to optimize light output Also available in 20mm-140mm Variable Spot @ 16”
- New Molded Junctions add Flexibility and the Reinforced Sheathing Protects the Fiber Bundle
- Headband with Module Weight - 4.5 oz
- Headband, Module and Bifurcated Cable Weight - 6.5 oz

System Includes:
- 1 Headlight With Rear Cranial Support “RCS”
- 1 20mm-110mm Variable Spot Module
- 1 3.5mm Bifurcated 9’ Long UltraGrip Cable with Lensed Wolf Proximal End
- 2 Prepackaged, Sterile, Disposable Joysticks
- 1 Duffel Bag for storage

ALSO AVAILABLE AS A TITAN SPORTBAND

Ordering Information

- SG35-110-VHB “RCS” Headlight 110mm Variable Spot Module and UltraGrip Bif Cable
- SG35-140-VHB “RCS” Headlight 140mm Variable Spot Module and UltraGrip Bif Cable
- SL35-110-VHB “RCS” Headlight 110mm Variable Spot Module and Bif Cable
- SL35-140-VHB “RCS” Headlight 140mm Variable Spot Module and Bif Cable
- SG35-110-VSS Sportband Headlight 110mm Variable Spot Module and UltraGrip Straight Cable
- SL-0040 Replacement Foam Comfort Liners (Set of 3)
- SL-0013 Replacement Sterile Joysticks (Set of 10)
- SL-0080 Replacement 3.5mm Bifurcated Headlight Cable
- SG-0080 Replacement 3.5mm UltraGrip Bifurcated Headlight Cable
- SL-0088 Replacement 3.5mm Straight Headlight Cable
- SG-0088 Replacement 3.5mm UltraGrip Straight Headlight Cable
- Sport2 Replacement Sportband (set of 2)
Sunoptics Surgical TITAN Headlight Camera offers the comfort and stability of the new RCS headband and provides the high quality video needed for teaching and documenting surgical procedures.

- Brightest Illumination
- Fused fiber optic cable increases light transmission and eliminates fiber burning
- Variable spot iris eliminates unwanted structures and reflections from the video image
- Working distance is 12 in to 30 inches
- Light weight: Camera weighs less than 1.2 ounces
- Standard Definition of 640 x 480
- Video Resolution of 768 x 494
- S-Video and Composite Video output
- Available in both PAL and NTSC formats
- Single chip 1/4 inch CCD camera
- Optional High Magnification Lens
- Standard and High Magnification Cameras

Sunoptics Surgical TITAN SDS Video System is designed to provide the surgical team with the brightest light and the means of viewing high quality video in the OR during surgical procedures. The camera bracket can be retro-fitted onto any TITAN Floorstand providing an ergonomic look while using minimal amount of space.

The use of the system allows the entire operating team to view exactly what the surgeon is doing and anticipate the next step in the procedure making the entire team more efficient.
TITAN SDS Video Documentation System

Sunoptics Surgical® TITAN SDS Surgical Documentation System® provides the surgical team with the capability of documenting surgery for training purposes or for inclusion in medical referrals and records.

The TITAN SDS is an all in one recording and display device. Interaction with the system is via a set of touch screen controls. The controls may be used to enter patient information, hospital information, procedure and surgeon information. The Touch Screen controls are also used to control functions such as "record video", "stop recording video", record a still picture, playback, and "print stills". The Icons are also used for various administrative functions and for downloading video to an external storage media such as USB memory stick or USB hard drive.

Features

- 17” Medical Grade All-in-One Touchscreen monitor with anti-microbial coating.
- Approximately 1000 hours of storage capacity on the hard drive
- Sunoptics Surgical SDS Documentation Software
- Video stored in 5 minute .wmv (Windows Media Video) clips with a thumbnail for each clip to aid in video editing
- Fast Downloads to USB hard drive or USB memory stick via the 4 USB ports available on the front of the Command Center
- Stored Video is retrievable and can be downloaded to USB
- Ethernet port available on monitor
- Printer port available on monitor
- 3 S-video outputs available to stream live video to other available monitors
- Video cart has variable height adjustment, is very stable and easy to maneuver
- All power input through a single power cord to a 4 outlet powerstrip
- Input power 100 - 240VAC, 50/60HZ

Ordering Information TITAN SDS Video Imaging System

TSV-1FS-K  TITAN HEADLIGHT CAMERA IMAGING SYSTEM (NTSC) WITH TITAN400, & FLOORSTAND
TSV-2FS-K  TITAN HEADLIGHT CAMERA IMAGING SYSTEM (NTSC) WITH TITAN300, & FLOORSTAND
TSV-3FS-“” TITAN HEADLIGHT CAMERA IMAGING SYSTEM (PAL) WITH TITAN400, & FLOORSTAND
TSV-4FS-“” TITAN HEADLIGHT CAMERA IMAGING SYSTEM (PAL) WITH TITAN300, & FLOORSTAND
(“” Specify International Power Cord Plug Required)

Ordering Information TITAN SDS Video Documentation System

TSV-400W7-K TITAN DOCUMENTATION SYSTEM WITH SDS MONITOR, COMMAND CENTER, TITAN400, HEADLIGHT CAMERA W/16MM LENS (NTSC), AND VIDEO CART
TSV-300W7-K TITAN DOCUMENTATION SYSTEM WITH SDS MONITOR, COMMAND CENTER, TITAN300, HEADLIGHT CAMERA W/16MM LENS (NTSC), AND VIDEO CART
TSV-400W7P-“” TITAN DOCUMENTATION SYSTEM WITH SDS MONITOR, COMMAND CENTER, TITAN400, HEADLIGHT CAMERA W/16MM LENS (PAL), AND VIDEO CART
TSV-300W7P-“” TITAN DOCUMENTATION SYSTEM WITH SDS MONITOR, COMMAND CENTER, TITAN300, HEADLIGHT CAMERA W/16MM LENS (PAL), AND VIDEO CART
(“” Specify International Power Cord Plug Required)

Manufactured by: Sunoptic Technologies, 6018 Bowdendale Avenue, Jacksonville, Florida 32216
Phone: 877.677.2832
www.sunopticssurgical.com
Tomorrow’s Innovation

SSL-8000 PortablePlus LED Headlight

Sunoptics Surgical PortablePlus LED Headlight delivers the bright white light needed for surgical procedures. The LED light provides the surgeon with a homogenous spot for true tissue color recognition. The battery powered LED headlight offers the freedom from being tethered to a lightsource by a fiberoptic cable. The RCS headband and the lightweight LED module provide stability as well as comfort.

- The new "RCS" is Lightweight and Comfortable
- 10w LED offers the BRIGHTEST Illumination available
- Available module spot size: 70mm @ 16"
- Light Intensity: 34,000 Lux @ 16"
- Lightweight battery and clip on holster provide 2hr 40min of continuous use

SSL-8000SB PortablePlus LED Sport Headlight

Sunoptics Surgical PortablePlus LED Sport Headlight offers all the same LED light features as mentioned above and has been designed to provide stability and comfort for surgeons who prefer the Sportband style.
SSL-8000 Portable LED Headlight

10w LED Producing Bright, White Light
- Color temperature: 4500°K
- Typical LED life: >50,000 hours
- Newly Designed Lightweight Headband with Rear Cranial Support for added comfort
- Headlight Module with 70mm Fixed Spot at 16”
- Variable Intensity Control: 0 – 34,000 Lux at 16”
- Headband with LED Module Weight – 9 oz
- Battery and Holster Weight – 12 oz
- Battery Life – 2 hrs 40 min @ Full Intensity, 5 hrs 30 min at Half Intensity
- Battery Charger Accepts 100-240V AC, 50/60 Hz input for worldwide operation
- Battery Recharge Time – 3.5 hrs
- Warranty Three (3) Years on LED Headlight and Six (6) Months on Battery

Classification:
- European Class I, Active device per Annex IX, rule 1
- FDA Class I, Device Listing 125713
- Complies with Essentials Requirements Matrix of MDD 93/42/EEC, amended by 2007/47/CE

System Includes:
- 1 LED Headlight with Rear Cranial Support “RCS”
- 1 Clip-on Power Pack with rechargeable Battery
- 1 2” Heavyweight Polypropylene Quick Release Belt
- 1 Single Bay Battery Charger
- 2 Garment Clips
- 1 Padded Carrying Bag with Shoulder Strap

Ordering Information
- SSL-8000 Complete LED Headlight System (with RCS Headband)
- SSL-8000-SB Complete LED Headlight System (with Sportband)
- SSL-80CB Replacement Carrying Bag
- SSL-2054 Replacement Battery
- SSL-2054C Replacement Battery Charger
- SSL-2054H Replacement Battery Holster
- SL-0040 Replacement Comfort Liners (Sets of 3)
- SPORT2 Replacement Sportband (Set of 2)

(for International ordering please specify plug required)
SolarMaxx 300 Lightsource

Sunoptics Surgical SolarMaxx 300 lightsource is an economical 300 watt xenon lightsource that is efficient, reliable, and provides the intense white light needed for surgical headlight or endoscopic procedures.

- Economical to own
- Efficient, reliable bright white light
- Easy lamp module replacement
- 4-port turret (Standard ACMI, WOLF, STORZ, OLYMPUS)
- Small floorstand footprint occupies less operating room space

SolarMaxx 180 Lightsource

Sunoptics Surgical SolarMaxx 180 lightsource is an economical and reliable 180 watt xenon lightsource that is efficient, quiet, and provides the intense white light needed for surgical procedures.

- Economical to own
- Efficient, reliable bright white light
- 4-port turret (Standard ACMI, WOLF, STORZ, OLYMPUS)
- IDEAL XENON PERFORMANCE FOR SURGERY CENTERS

SolarPlus Headlight

Sunoptics Surgical SolarPlus Headlight provides bright white light along with comfort and support from the conventional headband with dual top and rear knob adjustments.

- Lightweight, comfortable and stable
- BRIGHTEST illumination available
- Module spot sizes: 20mm-110mm
- Headlight cables available in bifurcated and straight configuration
- Lensed 3.5mm fiber bundle with Grey armoured sheathing 9ft long
- Fused fibers on the proximal end increase transmission efficiency by 10%
- UltraGrip Handle eases cable removal from the lightsource and aids against fiber damage
SolarMaxx 300 Specifications

Lamp Type: Ceramic 300 Watt Xenon
Lamp Power Rating: 300 Watts
Lamp Color Temperature: 5,600K
Lamp Warranty: 650 Hours Prorated
Front Panel Controls: On/Off Switch, Attenuator Control, Turret
Input Voltage Range: 100 – 120 VAC 50/60Hz, 220–240 VAC 50Hz
Power Consumption: 450 Watts
Regulatory: IEC 60601-1, IEC 60601-1-2, UL60601, CSA C22.2, NO. 601.1-M90, CE
Operating Environment: +10 to +40 Degrees C, 30 to 80% Relative Humidity Non-condensing
Dimensions: 355mm (14") W x 130mm (5") H x 250mm (10") D
Weight: 6.0kg (13.2lbs.)
Rear Panel Display: Resettable Lamp Life Meter

SolarMaxx 180 Specifications

Lamp Type: Ceramic 175 Watt Xenon
Lamp Power Rating: 175 Watts
Lamp Color Temperature: 5,600K
Lamp Warranty: 650 Hours Prorated
Front Panel Controls: On/Off Switch, Attenuator Control, Turret
Input Voltage Range: 100 – 120 VAC 50/60Hz, 220–240 VAC 50Hz
Power Consumption: 250 Watts
Regulatory: IEC 60601-1, IEC 60601-1-2, UL60601, CSA C22.2, NO. 601.1-M90, CE
Operating Environment: +10 to +40 Degrees C, 30 to 80% Relative Humidity Non-condensing
Dimensions: 355mm (14") W x 130mm (5") H x 250mm (10") D
Weight: 6.0kg (13.2lbs.)
Rear Panel Display: Resettable Lamp Life Meter

Ordering Information

SSX-300ST-K 300 Watt Xenon Lightsource, 4 Port Turret
SSX-180ST-K 175 Watt Xenon Lightsource, 4 Port Turret
SSL0033 Floorstand for SolarMaxx Lightsources
SSX0030 Replacement Lamp Module for SSX-300ST
SSX0049 Replacement Lamp Module for SSX-180ST
SL39-110-VHB SolarPlus Headlight with 20mm-110mm Variable Spot Module and Bifurcated Cable
SG39-110-VHB SolarPlus Headlight with 20mm-110mm Variable Spot Module and Bifurcated UltraGrip Cable
(Replace -K with required International Power Cord Plug)
Sunoptics Surgical PortablePlus LED3000 is a state-of-the-art LED Lightsource designed to provide light for endoscopic procedures. The lumen output is comparable to many Xenon lightsources currently being used in endoscopy. The expected LED life of 30,000 hours eliminates the need to purchase replacement lamps thus saving money in operational cost.

- Compact, efficient, durable source of brilliant “daylight” quality light for endoscopy.
- Expected LED life of 30,000 hours
- Color temperature: 6950°K nominal.
- Ergonomically designed turret includes ACMI, Olympus, Storz, & Wolf ports; single port version and other port styles are also available.
- LED automatically shuts off when cable is removed from active port.

Sunoptics Surgical PortablePlus LED2000/1000 LED Lightsources are compact, efficient sources of brilliant "daylight" quality light, each having a color temperature of 6500k and typical LED life of 50,000 hours. The LED2000 being the premium unit utilizes a new high efficiency optics design that increases the light output by 40% over the LED1000.

- Compact, efficient, durable source of brilliant “daylight” quality light
- Ideal for office use and post OP examinations
- Expected LED life of 50,000 hours
- Color temperature: 6500°K nominal
- Ergonomically designed turret includes ACMI, Olympus, Storz, & Wolf ports; single port versions and other port styles are also available.

Sunoptics Surgical PortablePlus Rover is a compact, portable source of brilliant white light. Ideal for office or field use with small rigid or flexible endoscopes. Connects directly to post on the endoscopes via integral ACMI or Wolf light port.
LLS-3000 Medical Grade 100W Solid State (LED) Lightsource

- Compact, efficient, durable source of brilliant “daylight” quality light for endoscopy.
- Lumen output comparable to many Xenon units but more stable and consistent.
- Expected LED life of 30,000 hours (15 years @ 40 hrs/week x 50 weeks/year) eliminates costly periodic lamp changes.
- Color temperature: 6950°K nominal.
- Electronic (PWM) intensity control from 0-100%; variety of linear & geometric dimming profiles available for optimum performance with cameras.
- High-level Command Interface facilitates remote control and status access through integral RS232 and USB ports.
- Ergonomically designed turret includes ACMI, Olympus, Storz, & Wolf ports; single port versions (shown above) and other port styles are also available.
- LED automatically shuts off when cable is removed from active port.
- Standby mode turns off LED but keeps lightsource energized and adjustable.
- Accepts 100-240V AC, 50/60 Hz input power for worldwide operation.
- Dimensions: 11” W x 4.5” H x 11” D; weight 3.4kg (7.5 lbs).

Sunoptic Surgical SSL-2000 Lightsource - 50W Solid State LED Light
- Compact, efficient, durable “daylight” light
- Premium LLS-2000 utilizes new high efficiency design
- Color temperature: 6500° K nominal
- Typical LED life: >50,000 hours
- Low power consumption: 52W typical
- Electronic (PWM) intensity control from 0-100%
- Four-port turret and single port versions available
- Standard ports are ACMI, Olympus, Storz and Wolf; other ports available
- Accepts 100-240V AC, 50/60 Hz input power for worldwide operation
- Regulatory: UL60601-1, CAN/CSA C22.2 No. 601.1, EN60601-1-2, CE marked
- Dimensions: 4.65” W x 3.32” H x 7.25” D (~10” overall)
- Weight: 105g (3.7 oz.) including batteries

Sunoptic Surgical Rover III LED Lightsource – 3Watt Portable LED Light
- Compact, portable source of brilliant white light for office or field use with rigid or flexible endoscopes
- Connects directly to endoscope via integral ACMI or Wolf light port
- Delivers brighter, whiter light than conventional “light-handles”
- Adapters available for Storz / Olympus and Olympus GP scope connections
- Color temperature: 6500°K nominal
- Typical LED life: 50,000 hours nominal
- Uses disposable CR-123 lithium batteries (included); typical run time 110 minutes
- Rechargeable Lithium-ion batteries with external AC charger also available
- Pushbutton on/off control at end of body
- FDA Class II device, CE marked
- Dimensions: 5.1” (13cm) long; 1.25” (3.2cm) diameter at heat sink
- Weight: 105g (3.7 oz.) including batteries

Ordering Information
- SSL-2000T-K 50w Solid State LED Lightsource with 4-port Turret (High-output)
- SSL-1000T-K 50w Solid State LED Lightsource with 4-port Turret
- SSLP-2000T-K Portable 50w LED System with 80mm Variable Headlight, 5mm Bif
- SYC-0001-LED Floorstand for single or dual mount LED light sources
- (For International use replace -K with plug type required)
- SSL-3LBA Rover III Portable LED Light with ACMI Port
- SSL-3LBW Rover III Portable LED Light with WOLF Port
- SSL-3LBA-R Rover III Portable LED Light with ACMI Port, Rechargeable Battery
- SSL-3LBW-R Rover III Portable LED Light with WOLF Port, Rechargeable Battery
(Replace -K with required International Power Cord Plug)

Sunoptics Surgical
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ISO 9001 and 13485 Certified
Tomorrow’s Innovation

UltraGrip Endoscopic Cables

Sunoptics Surgical Endoscopic cables are manufactured to a high standard of quality, performance, and reliability. They are skillfully manufactured in-house with medical grade materials and comply with FDA regulations, and ISO 13485 certification. New to our extensive line of Endoscopic cables is Sunoptics Surgical’s UltraGrip handle, a patented ergonomic design feature that provides added strain-relief, plus durability, and ease of cable removal from the lightsource.

Our headlight cables are designed to deliver the maximum light output and performance when used with our Sunoptics Surgical headlights. The patented process of fusing the fiber bundle at the proximal end combined with using a high quality lens to focus the light results in an increase in light transmission outperforming the competition. This along with Sunoptics Surgical UltraGrip handle provides added strain-relief, plus durability, and ease of cable removal from the lightsource.

Replacement Cables

Sunoptics Surgical replacement headlight cables are manufactured with the same quality and performance as our standard fiberoptic cables. We offer high quality replacement cables for the following competitors: Integra/Luxtec, Welch-Allyn, BFW, Aculux, Isolux and Applied Fiberoptics.
Endoscopic Cables - Universal / Dedicated

Sunoptics Surgical fiberoptic cables are designed to deliver maximum light when coupled to a medical grade fiberoptic lightsource. They are compatible with virtually all endoscopes, medical instruments, and microscopes. The cables can be manufactured with bundle diameters ranging from 3.0 mm to 5.0 mm to match the bundle of the instrument being used to provide optimal lighting. We offer eight different opaque colors of medical grade silicone sheathing so that each department can have its own unique identifier. All of our endoscopic cables are hermetically sealed and can be sterilized using steam autoclave, cold soak, Steris, or Sterrad.

Endoscopic Cables - Universal Style

Sunoptics Surgical Universal cables can be used with various adapters according to the lightsource and instrument that is to be used for a procedure. Each end of the cable has to be fitted with a thread on adapter to properly function. This gives the versatility of creating a custom cable by simply changing the adapters on each end.