

Versatile.

Dependable.

Proven.



CORNEAL RUST RING PRODUCTS

Complete Corneal Rust Ring Removal Instruments BR2-5 BR2-1 Π ì)— Complete set w/ .5 mm burr Complete set w/ 1 mm burr Corneal Rust Ring Chucks and Burrs ALGERBRUSH II: Chuck and Burr CB2-5 – .5mm Chuck and Burr CB2-1 – 1mm Chuck and Burr Corneal Rust Ring Burr Packages BU-5U (Unsterilized .5mm Burr only / 5 per package) BU-1U (Unsterilized 1mm Burr only / 5 per package) BU-5S (Pre-sterilized .5mm Burr only / 5 per package) BU-1S (Pre-sterilized 1mm Burr only / 5 per package) 副計算 CHUCK2 (ALGERBRUSH II Chuck)

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PTERYGIUM PRODUCTS





Invented in 1970 by Dr. Leon Alger, a practicing ophthalmologist for 40 years, the ALGERBRUSH II is used worldwide by ophthalmologists and emergency room physicians.

At The Alger Company we feel we have a quality product at a reasonable price. This will enable most practitioners to provide an ALGERBRUSH II for each operatory.

Field tested for many years and CE marked since 1998, The Algerbrush II comes with a six-month repair/replacement warranty.



ALGERBRUSH II

ALGERBRUSH II Operating Instructions

*** Please read the following before operating the ALGERBRUSH II ***

- The ALGERBRUSH II burr must be sterilized prior to its initial use and following each use thereafter (for sterilization information, refer to section entitled "Sterilization")
- The chuck and burr on the ALGERBRUSH II are held together by friction and may become loose during shipment. Prior to each use of the ALGERBRUSH II, check the following:
 - Burr fits snugly within the chuck
 - Chuck fits snugly on the motor shaft 2)

*** If either of the above parts is loose, injury to the patient could result if the assembly falls off during use. Please refer to section entitled "Chuck and Burr Maintenance"



Operation of the ALGERBRUSH II:

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- To start the ALGERBRUSH II, turn end nut in "ON" direction indicated on ALGERBRUSH II label, i.e., to the riaht
- To stop the ALGERBRUSH II, turn end nut in "OFF" direction indicated on ALGERBRUSH II label, i.e., to the left *** Note: To ensure ALGERBRUSH II is "OFF", check that the chuck and burr have stopped spinning.

Installation / Changing of Battery:

** Note: When changing battery, care should be taken not to put pressure on the battery clip as it may break at the point where it attaches to the motor

- Remove chuck and burr assembly (see section entitled "Installation of Chuck and Burr Assembly")
 - Remove end nut
 - Slide motor and battery assembly out of housing
 - Battery must be installed Pole first (next to motor; see ALGERBRUSH II diagram above)
 - (If battery installed + Pole first, the ALGERBRUSH II will not function properly)
 - Place new battery between motor and battery clip (- Pole next to motor)
 - Re-insert motor and battery assembly into housing
 - Ensure motor seated properly in housing by checking the following:
 - Motor shaft centered in hole at tip of housing 1)
 - Tip of motor shaft just even with top of housing 2)
 - Partially tighten end nut
- Note: if motor starts spinning, see section above entitled "Operation of ALGERBRUSH II" for instructions to stop motor

Installation of Chuck and Burr Assembly:

- ** Note: Motor must be spinning when installing chuck and burr assembly to ensure motor seated properly
 - To install, ensure motor is spinning, i.e., ALGERBRUSH II is "ON"
 - Gently push chuck and burr assembly onto motor shaft 1)
 - 2) Base of chuck should be close to, but not touching, top of housing
 - Turn "OFF" ALGERBRUSH II until ready to use 3)

To remove.

- Grasp base of chuck with fingers and pull away from motor shaft or -1)
- Gently pry chuck off motor shaft with suitable instrument 2)
- Turn "OFF" ALGERBRUSH II until ready to use 3)
- To replace burr.
 - Remove chuck and burr assembly from motor shaft (per instructions above) 1)
 - While grasping base of chuck with fingers, grasp shaft of burr with Foley hemostat and pull apart 2)
 - 3) To insert new (sterilized) burr, use Foley hemostat to grasp burr (grasp in middle of shaft); then, push chuck onto bottom of burr shaft until snug Note: burr fits into "longer" end of chuck; see drawing of chuck and burr on front page of instruction sheet.

Chuck and Burr Maintenance:

Chuck and burr assembly are held together by friction; should they become loose or not fit snugly, use the following procedures to tighten.

- If base of chuck becomes loose on motor shaft, pinch base of chuck gently with small pliers as shown in Figure I below (Note: slit in base of chuck should be facing directly away from you)
- If burr becomes loose in chuck, pinch longer portion of chuck gently with small pliers as shown in Figure II below (Note: slit in longer portion of chuck should be facing directly away from you)

Sterilization of the ALGERBRUSH II:

********* DO NOT AUTOCLAVE THE ENTIRE INSTRUMENT! IT WILL BE RUINED! *********

- Remove chuck and burr assembly from ALGERBRUSH II (per instructions above); Separating burr by itself is fine, but burrs are small and hard to handle; therefore, it is easier to keep chuck and burr assembly together
 Housing can be cleaned by wiping with alcohol
- Refer to Appendix 1 for validated sterilization and cleaning procedures



Appendix 1: Cleaning and Sterilization Instructions

Scope: The following is applicable before initial use and after each subsequent use. Carbide burrs are provided mechanically clean, but are not sterile (unless labeled "STERILE"). Therefore, carbide burrs should be sterilized before first use.

Warnings:

- Do not use chemical or dry heat to sterilize carbide burrs, as these processes have not been validated for
 use
- Cleaning agents with chlorine or chloride as the active ingredient are corrosive to stainless steel and must not be used. Cleaning agents with neutral pH are recommended.
- Do not use Cold Sterilizing Methods for the sterilization of burrs. These agents often contain strong oxidizing chemicals that may dull or weaken burrs.
- Do not use enzymatic solutions for cleaning or debriding burrs.
- Reprocessing Limitations:
 - The end of life is determined by wear and damage in use. Carbide burrs should be inspected for defects (i.e. broken tips, broken sections on flutes, etc.) during the cleaning process.

Point of Use:

• Delay in reprocessing must be kept to a minimum to avoid contaminants drying thereby making cleaning more difficult.

Containment/Transportation:

Carbide burrs can be transported wet or dry and should be protected from damage. If transported wet there
is an increased chance of staining or corrosion. Prolonged storage in disinfectant solutions may result in
degradation of the product and must be avoided.

Ultrasonic Cleaning Procedure:

- Prepare a fresh pH-neutral cleaning solution; place the carbide burr in the dedicated instrument block (if
 applicable) and then place in a sonication unit. Follow the agent manufacturers' instructions for correct
 concentration, exposure time, temperature, and water quality. Completely submerge the device in the
 cleaning solution and sonicate for at least fifteen (15) minutes.
- Perform a final thorough rinse of the device and instrument block (if applicable) under running warm tap water for at least (1) minute.
- Visually inspect to confirm the removal of debris. Repeat the cycle if needed.
- Dry the device using a non-shedding wipe or clean compressed air.

Inspection Testing:

- Carefully inspect each device to ensure that all debris has been removed.
- Visually inspect the device for damage/ wear that would prevent proper operation:
 - Do not use if the tip is broken.
 - Do not use if there is a broken section of a flute.
 - Do not use if there is evidence of corrosion.

Packaging:

- Singly: Pack the carbide burr in pouches validated for sterilization
- In Sets: Place the carbide burr in the dedicated instrument block.

Sterilization: Use the following cycle for steam sterilization

Cycle Type	Minimum Sterilization Exposure Time (minutes)	Minimum Sterilization Exposure Temperature	Minimum Dry Time (minutes)
Gravity	10	135°C (275°F)	30
Pre-vacuum (4 Pulses)	3	134°C (273°F)	30

Ensure that the sterilizer manufacturer's maximum load is not exceeded.

Storage:

• The carbide burr should be stored in the sterilization pouch (or instrument block) until required.

Additional Information:

 These processes have been validated as being capable of preparing carbide burrs for reuse. Any deviation from these instructions should be properly validated for effectiveness and potential adverse results.





SENSOR MEDICAL TECHNOLOGY SINGLE USE OPHTHALMIC PRODUCTS

All lenses (except 4 Mirror Gonioscope) have a custom anti-reflection coating and can be used with the appropriate therapeutic lasers.



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SMT-001 3 MIRROR LENS A general purpose lens that has a central

A general purpose lens that has a central optic for viewing the posterior pole and mirrors for viewing/treating the anterior chamber angle, peripheral and arcades regions. Image magnification 0.93x and laser spot magnification 1.08x. Mirrors are wider and flatter than existing lenses on the market, offering exceptional optics.



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SMT-002 4 MIRROR GONIOSCOPY LENS

A diagnostic lens with four 64° mirrors for efficient visualization of the angle with minimal lens manipulation and a central optic for viewing the posterior pole. Image magnification of 0.8x.

SMT-003 SINGLE MIRROR LENS

A lens for diagnostic, surgical and therapeutic procedures including SLT, offering an excellent view of the anterior chamber angle. Image and laser spot magnification of 1.0x. The mirror is wider and flatter than existing lens designs.





SMT-005 RETINA 90 LENS Primarily designed to facilitate diagnosis and treatment of diabetic eye disease and any related manufactor department this

and treatment of diabetic eye disease and age-related macular degeneration, this lens offers a 1.0x magnified view within the region of the arcades. Laser spot magnification of 1.0x.

SMT-006 RETINA 165 LENS

Designed for use on smaller eyes, this lens offers a wide-angle view of the retina within the region of the equator. Indirect image magnification of 0.65x provides a high definition, broad field view of fundus without the limiting geometry of mirrors. Laser spot magnification of 1.55x.

SMT-013 RETINA 180 LENS

This lens offers an exceptional wide-angle view up to the ora serrata. Indirect image magnification of 0.8x and high definition, broad field view of the fundus. Used to treat diabetic eye disease, particularly pan-retinal photocoagulation and agerelated macular degeneration, it has laser spot magnification of 1.25x.



SMT-004 FUNDUS LENS

This lens was designed to provide a central 0.93x magnified view for observation of the macula and optic nerve head area. Laser spot magnification of 1.08x.

SMT-007 CAPSULOTOMY LENS

Large diameter optic is more than twice the standard, allowing treatment outside the visual axis of the patient. Image magnification factor 1.8x and laser spot magnification 0.56x. Exceptional optics with no chance of the lens button detaching.

SMT-008 IRIDOTOMY LENS

Designed with a large diameter optic to view/treat structures of the peripheral iris. Larger diameter magnifying optic has a wider view than existing lens designs and offers great latitude in therapy positioning. Image magnification 1.6x and laser spot magnification 0.63x. Outstanding optics with no chance of the lens button detaching.



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SENSOR MEDICAL TECHNOLOGY BI-ASPHERIC LENSES

Every lens has a scratch resistant hard coating and a superb anti-reflection coating.



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Sensor Medical ΤΕϹΗΝΟΙΟGΥ

SMT-014-R 90D LENS Sensor Medical's 90D lens is for use with

a Slit Lamp Biomicroscope. It provides an image magnification of 0.64x and a field of view of 75°



SMT-015-R 78D LENS

Sensor Medical's 78D lens is for use with a Slit Lamp Biomicroscope. It offers an image magnification of 0.77x and a field of view of 80°.



SMT-016-R 60D LENS

Sensor Medical's 60D lens is for use with a Slit Lamp Biomicroscope. It provides an image magnification of 0.96x and a field of view of 68°.





SMT-017-R 28D LENS

Sensor Medical's 28D lens is for use with a Binocular Indirect Ophthalmoscope. It has an image magnification of 2.1x and a field of view of 53°

SMT-018-R 20D LENS

Sensor Medical's 20D lens is for use with a Binocular Indirect Ophthalmoscope. It provides an image magnification of 3.0x and a field of view of 53°.



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SENSOR MEDICAL TECHNOLOGY STERILE BI-ASPHERIC LENSES

Exceptional optics with anti-reflection coating for use in the operating room or NICU.



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SMT-009 90D LENS

Sensor Medical's single use 90D Lens provides a clear 0.64x magnified image of the patient's fundus and a 75° field of view. Unlike any lens on the market, it has an anti-reflection coating and is provided sterile in an individual pouch for use in sterile environments. Exceptional optics with no scratches or water marks; ideal for surgery or the NICU.



SMT-019 OSHER 78D LENS

Sensor Medical's single use 78D Lens provides a clear 0.77x magnified image of the patient's fundus and a 80° field of view. Unlike any lens on the market, it has an anti-reflection coating and is provided sterile in an individual pouch for use in sterile environments. Exceptional optics with no scratches or water marks; ideal for surgery or the NICU.

SMT-010 60D LENS

Sensor Medical's single use 60D Lens provides a clear 0.96x magnified image of the patient's fundus and a 68° field of view. Unlike any lens on the market, it has an anti-reflection coating and is provided sterile in an individual pouch for use in sterile environments. Exceptional optics with no scratches or water marks; ideal for surgery or the NICU.





SMT-011 28D LENS

Sensor Medical's single use 28D Lens provides a clear 2.1x magnified image of the patient's fundus and a 53°field of view. The laser spot magnification is 0.47x. Unlike any lens on the market, it has an anti-reflection coating and is provided sterile in an individual pouch for use in sterile environments. Exceptional optics with no scratches or water marks; ideal for surgery or the NICU.

SMT-012 20D LENS

Sensor Medical's single use 20D Lens provides a clear 3.0x magnified image of the patient's fundus and a 53° field of view. The laser spot magnification is 0.33x. Unlike any lens on the market, it has an anti-reflection coating and is provided sterile in an individual pouch for use during surgery. Exceptional optics with no scratches or water marks; ideal for surgery or the NICU.



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