APPLICATIONS FOR DIFFERENT SPECIALTIES

1. **General Dentistry**
   - A. Assists in detection of caries. This technique is especially helpful for location of caries which may be blocked on x-ray due to existing fillings.
   - B. Locates supra and sub gingival calculus.
   - C. When composite removal is required, locates residual composite material which appears darker than surrounding tooth structure.
2. **Prosthodontics**
   - A. Location of the dentino-enamel junction in crown preparations.
   - B. Location of fractures in teeth and porcelain jackets.
3. **Endodontics**
   - A. Location of the root canal orifice.
   - B. Detection of broken instruments in the root canal.
   - C. Location of root fractures.
4. **Periodontics and Dental Hygiene**
   - A. Useful as an auxiliary light source during periodontal surgical procedures.
   - B. Assists in detection of sub gingival calculus.
   - C. Helps demonstrate decay and calculus directly in the patient's mouth and is a valuable aid in patient motivation.
   - D. Oral hygiene instruction and routine screening procedures by the hygienist or assistant.
6. **Orthodontics**
   - A. Location of proximal caries when teeth are banded.
7. **Pedodontics**
   - A. Diagnosis of crown fractures in traumatic injuries.

REPORTING OBLIGATION

Any event such as death or serious injury that has occurred to the patient, user or other persons in relation to use of this device should be reported to AdDent, Inc. and the competent authority of the Member State in which the user and/or patient is established.

MICROLUX MINI TRANSILLUMINATOR OPERATION AND FIRST TIME USE

To turn the unit on and off, the end cap incorporates an alternate action switch which can be activated by depressing the silver button. For ease of use, the light guide should be inserted with a slight rotating motion.

MAINTENANCE

If the Microlux Mini is not going to be used for more than 30 days, it is recommended that the batteries be removed.

When replacing batteries, it is important that they be placed in proper polarity. Place each battery with the positive (+) terminal in the front towards the LED.

REPLACEMENT PARTS / ACCESSORIES:

P/N 630003 Standard 3mm Light Guide
P/N 600045 Micro Tip 2mm Light Guide
P/N 110066 Pedo Light Guide, 2mm
P/N 640056 Standard Lighted Mirror Attachment
P/N 120043 3mm Plastic Light Guide
P/N 630002 Battery type AAA
P/N 600027 Protective Sleeves (Qty 250)
P/N 640035 Endo-Lite with 5 Fiber Light Guides
P/N 640039 Endo-Lite Refill Kit (Qty 45)
P/N 640041 Perio Kit with 5 Fiber Light Guides
P/N 640042 Perio Guide Refill Kit (Qty 45)
P/N 640072 Proximal Caries Attachment
P/N 640071 Proximal Refill Kit (Qty 45)

SPECIFICATIONS:

Unit Part Number:	120055 (3mm), 120066 (3mm) Plastic light guide
Equipment Class:	Internally powered equipment
Battery:	2 - 1.5V AAA Alkaline Batteries
Light Source:	High intensity light emitting diode (LED)
Color Temperature:	6,800˚ Kelvin approximately
Light Intensity:	2500 lux (232 ft-c), Minimum
Performance:	Battery life: 10 hrs. (Will vary with battery manufacturer)
Overall Unit Dimensions:	
Length:	5.9" (150 mm)
Diameter:	0.49" (12.4 mm)
Weight:	1.8 oz (51 grams) with light guide and batteries

MANUFACTURER

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QAS INTERNATIONAL ISO 9001:2015 REGISTERED COMPANY
ISO 13485 COMPLIANT

REV. A 2023/12

MICROLUX•Mini TRANSILLUMINATOR

MICROLUX DIAGNOSTIC SYSTEM INSTRUCTIONS FOR USE

Warranty registration at www.addent.com

MADE IN THE USA

PRECAUTIONS

CAUTION: Not Sterile.

The following Microlux Mini accessories are patient contact parts and are provided in a non-sterile condition:

- 2mm, 3mm and Pedo Glass Fiber Optic Light guides, 3mm plastic light guide
- Lighted Mirror Attachment
- Endo-lite, Perio Probe and Proximal Carries stainless steel attachments

They must be sterilized prior to initial patient contact and between patient applications. Refer to instructions for a) Cleaning and b) Sterilizing.

The Endo-lite, Perio Probe and Proximal Carries plastic fibers are SINGLE USE patient contact parts. They must be disinfected prior to patient contact. Fibers must be disposed of after use. Refer to instructions for disinfecting.

CAUTION: Do not autoclave the Microlux Mini hand piece or plastice light guides. Doing so will damage the unit and void your warranty. Refer to instructions for disinfecting.

CAUTION: Do not immerse the Microlux Mini hand piece in solution. Doing so will damage the unit and void your warranty

CAUTION: Do not autoclave the Endo-lite, Perio Probe and Proximal Carries stainless steel attachments with the plastic fiber insert in place. Doing so will damage the attachments.

CAUTION: The light guide is fragile – handle with care. Insert the glass light guide into the plastic nose cone with firm pressure. The stainless steel ferrule at the end of the light guide should be covered by the plastic nose cone and a slight click may be heard. To remove, rotate slightly and pull on the light guide at the same time.

INTENDED USE

The Microlux Mini Transilluminator is intended to be used by a dentist or dental professional as an adjunct to traditional oral examination. It is used for trans-illumination of the teeth, using high intensity LED light, thus aiding clinical dental examinations. Trans-illumination helps to visualize crown fractures, caries and root canal orifice.

CLEANING/ DISINFECTING/STERILIZING GLASS LIGHT GUIDES

a.) Cleaning: For the autoclaveable LIGHT GUIDE and Fiber Light attachment (without fibers) ONLY
- Immerse/thoroughly drench parts in a surface decontaminate cleaner (soap and water cleaning solution).
- After 10 minutes, scrub with an instrument cleaning brush until visibly free from debris.
- Rinse all parts with warm water.

b.) Sterilizing: For the autoclaveable LIGHT GUIDE and Fiber Light attachment (without fibers) ONLY
- Sterilize in a steam autoclave using distilled water at a temperature of 270°F (132°C) for 20 minutes.
- Do not add chemical solutions to the autoclave.
- Do not use a chemical autoclave.

CLEANING/DISINFECTING/STERLIZING MICROLUX MINI HANDPIECE, FIBERS AND PLASTIC LIGHT GUIDES

Disinfecting: The Microlux Mini hand piece and Endo-lite, Perio Probe and Proximal Carries plastic fibers and plastic light guides can be disinfected following these guidelines:
- Wipe all surfaces with a disinfectant comprising 72% - 55% alcohol and .33% -.5% quaternary ammonium and follow the manufacturer's directions. Some popular disinfectant wipes in this category are:

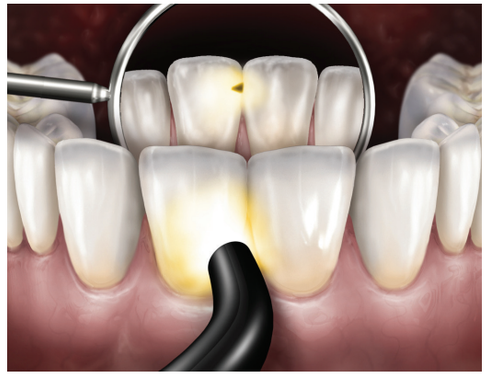
  1- Monarch Surface Disinfectant Wipes (Air Techniques)
  2- Opticide 3 Wipes (Biotrol)
  3- Super Sani-Cloth Wipes (PDI)

- Wipe, do not spray, solution onto the Microlux Mini hand piece. Prevent liquids from entering openings on unit.

MICROLUX MINI TRANSILLUMINATION TECHNIQUE GUIDE

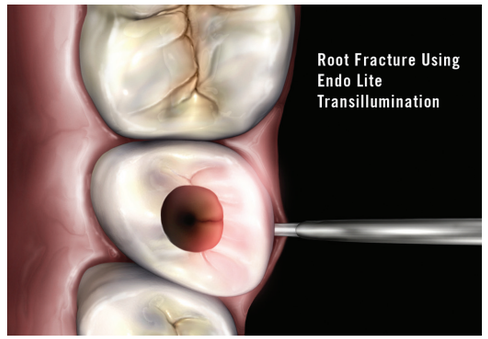
For best results, all transillumination procedures should be performed with the room lights dimmed or turned off.

Microlux Mini Transilluminator: Available with 3mm glass light guide or 3mm plastic light guide, which allows doctors to better visualize caries on anterior and posterior teeth.

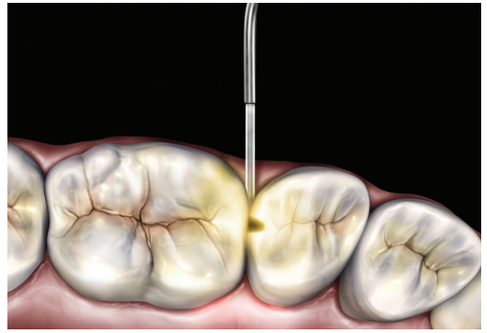


Anterior Caries: Anterior caries can be visualized by placing the probe on the labio-cervical region of the tooth and examine from the lingual. **Shown Above: 3mm P/N 630003, 2mm P/N 600045, Pedo P/N 110066**

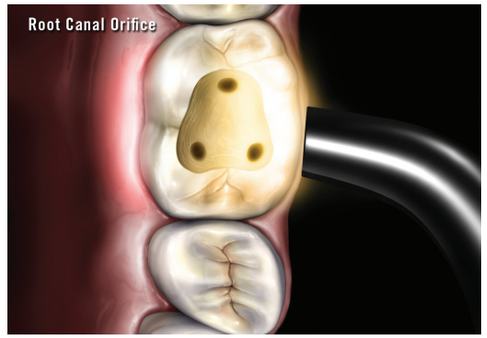
Posterior Caries: To visualize posterior proximal decay, place the probe on the cervical area of the tooth. Caries appear as a dark shadow on the occlusal surface. **Shown Above: 3mm P/N 630003, 2mm P/N 600045, Pedo P/N 110066**



Root Fracture: Root fractures can often be detected by using the Endo Fiber tip. Place it either buccally or lingually in the gingival sulcus. A fracture line will appear dark via transillumination from the outside to the inside of the canal. **Shown Above: P/N 640035**



Posterior Caries: Caries can be also detected using the Proximal Caries fiber tip. Place the lighted fiber tip interproximally under the marginal ridge. View from the occlusal. This method often shows caries with high definition. **Shown Above: P/N 640072**



Root Canal Orifice: To help locate root canal orifice, place the light source on the buccal or lingual cervical region of the tooth. **Shown Above: 3mm P/N 630003, 2mm P/N 600045, Pedo P/N 110066**

Periodontal Disease: To detect the depth of the periodontal pockets and gingival recession, use the lighted Perio Probe and insert the tip in the gingival sulcus. The depth indications are 3, 5, and 7mm. **Shown Above: P/N 640041**