

REPLACEMENT PARTS

Part # Description

- 424277 ParaLens System, 120V/220V
- 424278 ParaViewer, R/P
- 427701 ParaLens Illuminator, Foot, R/P
- 427702 ParaLens Illuminator, Fuse, R/P
- 427703 ParaLens Illuminator, PCB, R/P
- 427704 ParaLens Illuminator, Ceramic Socket, R/P
- 427705 ParaLens Illuminator, Fan, R/P
- 427706 ParaLens Illuminator, Line Cord, R/P
- 424270 ParaLens Illuminator, R/P
- 424271 ParaLens, Fiber-optic Cable, Quartz, R/P
- 424272 ParaLens Illuminator, Bulb, Quartz Halogen, R/P
- 424273 ParaLens, 60x Objective W/ Internal UV Filters, R/P

SPECIFICATIONS

Lamp:

EKE 150W 21V quartz
40,000 foot candles
200 hours at full intensity
32000°K

Electronics:

Voltage: 85-265V 50-60Hz
Variable Intensity control (0-100%)
Fuse: 3.15 amp
Low-heat solid state electronics

Dimensions & Weight:

Height: 5.5" (178mm)
Length: 10.5" (267mm)
Width: 7" (127mm)
Weight: 6lbs. (2.7kg)




INTENDED USE:

As a light source with fiber-optic cable 424271, for illuminating the ParaLens Microscope Adapter.



Product Manufactured for:

 QBC Diagnostics Inc.
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Philipsburg, Pennsylvania 16866 USA

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PREPARATION FOR USE

Installing Fiber-optic Cable:

1. Turn the thumb screws of the adapter assembly counterclockwise until fiber-optic cable assembly can be inserted.
2. With the two flats of the fiber-optic cable assembly perpendicular to the thumb screws, insert fiber-optic cable assembly until the assembly is fully bottomed.
3. Turn the thumbscrews of the adapter assembly clockwise until the fiber-optic cable assembly is secured in the adapter assembly.
4. Attach the opposite end of the fiber-optic cable assembly to the ParaLens Microscope Adapter according to the directions furnished with the equipment.

Setting Intensity Dial:

The Intensity dial controls operating voltage and the light output of the quartz halogen Illuminator lamp and, hence the light output of the fiber-optic cable.

IMPORTANT: Life of the halogen lamp is a function of operating voltage, i.e., lower operating voltage = longer lamp life, higher operating voltage = shorter lamp life.

Electrical Requirements:

The power cord should never be connected while the Illuminator cover is open. With the power switch in the off position connect the power cord to a grounded electrical receptacle.

CAUTION

Connect power cord only to a 3-wire grounded receptacle. If an extension cord is required, use only a 3-wire grounded cord having the proper voltage rating.

OPERATING PROCEDURES

Flip the power switch on to transmit the required amount of light from the Illuminator via the fiber-optic cable to the ParaLens microscope adapter.

Handle the Illuminator and fiber-optic cable as a laboratory instruments. To assure proper light transmission through the cable, avoid sudden forceful pressures on bends and avoid severe loops that strain the flexibility of the glass fibers. Periodically clean the polished ends of the cable with optical cleaner and lens tissue.

Turn the Illuminator off when not in use, to prolong the life of the halogen lamp.

PRECAUTIONS AND HAZARDS

- 1). Always connect the illuminator to a grounded electrical receptacle.
- 2). Never open the Illuminator cover while the line cord is connected.

3). Due to intense light from the halogen lamp, avoid looking through the adapter hole while Illuminator is on.

4). Do not touch the adapter assembly until power is off and the adapter has cooled.

MAINTENANCE

Changing Illuminator Lamp

The lamp and reflector assembly in the Illuminator is a 150W EKE unit, QBC Diagnostic Part Number 424272. To replace the lamp, proceed as described below.

CAUTION

TO AVOID ELECTRICAL SHOCK, DISCONNECT THE LINE CORD BEFORE OPENING THE COVER OF THE UNIT. TO AVOID BURNING HANDS, WAIT UNTIL THE UNIT HAS COOLED.

1. Unplug Illuminator line cord from wall socket.
2. Wait several minutes until adapter assembly is cool to the touch.
3. Open the cover of the Illuminator.
4. Pull up on reflector-lamp socket assembly to free it from spring clips.
5. Remove lamp and reflector assembly from socket.
6. Install new EKE lamp into socket. IMPORTANT: Do not touch inner quartz envelope of lamp or lamp pins when installing, since handling will result in significant shortening of lamp life. Handle lamp by its dichroic reflector when inserting replacement unit into lamp socket.
7. Install reflector-socket assembly into spring clips and push down until fully seated.
8. Close the cover and insert the line cord plug into wall socket.

Replacing Fuse

A power fuse is located on the line filter. To prevent fire and electrical hazards, replace the fuse only with QBC Diagnostics Part Number 427702.

WARNING

ALWAYS DISCONNECT THE POWER CORD BEFORE REPLACING THE FUSE TO AVOID ELECTRICAL SHOCK.

Service Assistance

In order to obtain assistance with test procedures and equipment operation, contact your nearest QBC Diagnostics representative or office. Do not return any equipment without specific instructions from QBC Diagnostics.