Congratulations on your purchase of the Air Techniques Advanced Rapid Curing
**ARC Light II** fully programmable Curing and Bleaching system.

The **ARC Light II** System is designed to offer the benefits of rapid curing and power bleaching in a fraction of the time normally used by conventional systems without any delay between uses.

The **ARC Light II** provides four (4) independent user programmable operating modes which are memorized for repeated use.

To ensure that your **ARC Light II** gives you the highest level of service, review and follow the guidelines outlined in the Operator’s Manual.

---

**AIR TECHNIQUES LIMITED WARRANTY**

The **ARC Light II** is warranted to be free from defects in material or workmanship for 12 months. The lamp is warranted to operate for a period of 5 (five) years.

Any item returned to our factory in Hicksville, New York during the warranty period, through an Air Techniques Authorized Dealer, will be repaired or replaced at our option at no charge provided that our inspection shall indicate it is defective. Dealer labor, shipping and handling charges are not covered by this warranty.

This warranty does not apply to damage due to shipping, misuse, careless handling or repairs by non-authorized service personnel. Air Techniques, Inc. is not liable for indirect or consequential damage or loss of any nature in connection with this equipment.

This warranty is in lieu of all warranties expressed or implied. No representative or person is authorized to assume for us any liability in connection with the sale of our equipment.
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</table>
Use of the ARC Light II not in conformance with the instructions specified in this manual may result in hazardous exposure to the light that may cause eye damage. Therefore, the ARC Light II should only be used by clinicians who have been trained in the use of the device and who are thoroughly familiar with this manual. All personnel in the immediate vicinity of the light, including the patient, must wear eye protection (orange protective glasses) as eye damage may occur if light is directed or deflected into the eye. Never look directly at the end of the liquid light guide or the curing tip. Avoid excessive exposure of soft tissue to prevent overheating. The liquid light guide supplied with the ARC Light II has been spectrally matched to the specific requirements of the system. Use of any other light guide may detrimentally affect performance and safety.

CAUTION: Turn power off before removing or replacing the ring magnet on the liquid light guide.

WARNING: To prevent fire or electrical shock, do not expose this appliance to rain or moisture.
Do not use this appliance near a flammable liquid, anaesthetic or oxygen.
Do not use solvents or flammable products on this appliance.

ATTENTION USERS:

Manufacturing date code on serial number label is in the format YYMM.

This symbol alerts the user that important Operating and Maintenance instructions have been included with the unit. Read carefully to avoid any problems.

This symbol warns the user that uninsulated voltage within the unit may be of sufficient magnitude to cause electric shock.

This symbol indicates type BF equipment in accordance with IEC 601-1

MEDICAL ELECTRICAL EQUIPMENT

WITH RESPECT TO ELECTRICAL SHOCK, FIRE, MECHANICAL AND OTHER SPECIFIED HAZARDS ONLY
IN ACCORDANCE WITH
UL-2601-1, CAN/CSA C22.2 NO.601.1
66CA

DO NOT ATTEMPT INTERNAL SERVICE
The interior of the Main Assembly is only accessible by removing hardware with tools and should only be opened and serviced by an authorized Air Techniques’ Dealer Service representative. Call your authorized Air Techniques’ dealer for service. Since the interior of the unit contains high voltage components under high pressure, failure to heed this warning may result in equipment damage, personal injury and/or death.
**SAFETY FEATURES**

1. The key switch prevents unauthorized use of the **ARC Light II**.

2. The liquid light guide interlock prevents the lamp from turning on if the liquid light guide is not properly installed.

3. The handpiece holder interlock prevents the lamp from turning on if the handpiece is in the handpiece holder.

4. When the hand actuated switch is released, the lamp turns off immediately, independent of the remaining time on the display.

5. The thermal interlock prevents the lamp assembly from overheating.

---

**ARC Light II SYSTEM**

The **ARC Light II** system and all accessories are shipped in one container. The box includes the following:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QUANTITY</th>
<th>REPLACEMENT PART NUMBER</th>
<th>REPLACEMENT QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC Light II System</td>
<td>1</td>
<td>61300</td>
<td>1</td>
</tr>
<tr>
<td>Hand Actuated Liquid Light Guide</td>
<td></td>
<td>61990</td>
<td>1</td>
</tr>
<tr>
<td>with Ring Magnet (P/N 61992)</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Curing Tip</td>
<td>2</td>
<td>61920</td>
<td>1</td>
</tr>
<tr>
<td>Disposable Light Shield</td>
<td>25</td>
<td>61925</td>
<td>25</td>
</tr>
<tr>
<td>Protective Glasses</td>
<td>3</td>
<td>61910</td>
<td>1</td>
</tr>
<tr>
<td>Keys for Power Switch</td>
<td>2</td>
<td>61031</td>
<td>2</td>
</tr>
</tbody>
</table>

**Note:** To unpack the **ARC Light II** carefully remove all components from the shipping container. Save all packaging materials in case repacking and shipment is necessary. Replace protective caps on liquid light guide & curing tip prior to repacking.

---

**BOX CONTENTS**

The **ARC Light II** system and all accessories are shipped in one container. The box includes the following:

**ARC Light II System**

The **ARC Light II** system and all accessories are shipped in one container. The box includes the following:

- **ARC Light II System** (1)
- **Hand Actuated Liquid Light Guide with Ring Magnet (P/N 61992)** (1)
- **Curing Tip** (2)
- **Disposable Light Shield** (25)
- **Protective Glasses** (3)
- **Keys for Power Switch** (2)

**QUANTITY REPLACEMENT REPLACEMENT QUANTITY**

<table>
<thead>
<tr>
<th>ITEM</th>
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<td>2</td>
</tr>
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</table>

**Note:** To unpack the **ARC Light II** carefully remove all components from the shipping container. Save all packaging materials in case repacking and shipment is necessary. Replace protective caps on liquid light guide & curing tip prior to repacking.
KEY PARTS IDENTIFICATION

FRONT VIEW

Digital Display and Control Panel
see close-up on pg. 7

Curing Tip

Calibration Port

Handpiece

Key Switch

Jack for Hand Actuated Liquid Light Guide

Dress Nut

Liquid Light Guide

BACK VIEW

Jack for optional Footswitch

Circuit Breakers

AC Input
IEC Connector

Cooling Fan

Press Buttons on both sides to pivot handle (if so equipped.)
FUNCTION OF CONTROLS AND INDICATORS

KEY SWITCH: Controls the application of AC power to the **ARC Light II**. When the switch is turned to the ON (1) position, the two digit display first indicates “88” to show all segments of the display and then the programmed curing or bleaching time. A green LED next to the mode description is illuminated indicating which mode the unit is in. The green **TIME** LED is also illuminated indicating that the display is showing time in seconds.

SELECT SWITCH: Pressing this switch sets the **ARC Light II** to the desired mode. A green LED next to the mode description is illuminated indicating which mode the unit is in. An audible signal will be heard each time the **SELECT** button is pressed.

PROGRAM SWITCH: Pressing this switch sets the **ARC Light II** in the programming mode. See the **PROGRAMMING SECTION** for detailed instructions.

UP (▲) SWITCH & DOWN (▼) SWITCH: Pressing these switches while in the programming mode adjusts the **TIME** and **INTENSITY** of the output light as shown on the display.

HAND ACTUATED SWITCH: With the liquid light guide installed and the handpiece removed from the handpiece holder, sliding the ring magnet back turns on the lamp. When the lamp is on, the red LED above the display is illuminated. Releasing the ring magnet immediately turns off the lamp.

DISPLAY: The two digit display indicates the programmed time in seconds. When the lamp is on, the display counts down to “00”. In the programming mode, when the **INTENSITY** LED is illuminated, the display indicates the lamp intensity in percent.

NOTE: To reduce operatory noise, the fan operates only when required and shuts off.

**DIGITAL DISPLAY AND CONTROL PANEL**
OPERATING INSTRUCTIONS

1. Slightly loosen (rotate counter-clockwise) the circular dress nut at the liquid light guide port on the right side of the **ARC Light II** and insert the plastic end of the liquid light guide into the port until it reaches the end and cannot be inserted any further. The cable and plug should be positioned towards the rear of the **ARC Light II**. Tighten (rotate clockwise) the circular dress nut until snug.

2. Connect the plug from the hand actuated liquid light guide into the jack near the liquid light guide port.
   **NOTE:** Power must be off when connecting or disconnecting the plug from the liquid light guide to prevent turning on the light unintentionally.

3. Attach a curing tip to the metallic end of the liquid light guide. It will be held by magnetic force which will allow it to rotate. The metallic end of the liquid light guide also rotates making the combined assembly totally flexible for reaching all parts of the oral cavity.
   **NOTE:** Care should be taken when handling the curing tip. Damage can occur due to mishandling or dropping.

4. Place the handpiece in the handpiece holder.

5. Connect the AC power line cord to the IEC connector on the rear of the **ARC Light II**.

   **CAUTION:** **THE LIGHT EMANATING FROM THE CURING TIP IS EXTREMELY BRIGHT. ALL PERSONNEL IN THE IMMEDIATE VICINITY OF THE LIGHT, INCLUDING THE PATIENT MUST WEAR EYE PROTECTION (ORANGE PROTECTIVE EYEGLASSES). AVOID EXCESSIVE EXPOSURE TO PREVENT OVERHEATING TISSUE.**

7. Allow the **ARC Light II** to reach room temperature before turning ON (1) for the first time.

8. Insert the key into the lock on the right side of the **ARC Light II**.

9. Rotate the key to the ON (1) position.

10. A single audible signal will be heard. The two digit display first indicates “88” to test the display and then the programmed curing or bleaching time determined by the mode selected. A green LED next to the mode description is illuminated indicating which mode the **ARC Light II** is in.

11. Press the **SELECT** switch until the green LED next to the desired mode is illuminated.

12. Remove the handpiece from the handpiece holder.

13. Place a disposable light shield from the accessory kit on the end of the curing tip.

14. Slide the ring magnet on the handpiece of the liquid lightguide towards the rear. The lamp will turn on. The display will begin to count down to “00”. At half the programmed time or as programmed, a single audible signal will be heard. At the end of the programmed time, the display will show “00”, two audible signals will be heard and the lamp will turn off.

15. Release the ring magnet. The display will return to the programmed time.
1. **Calibration must be performed each time the curing tip is changed to ensure that the calculated curing energy is present at the end of the curing tip. Calibration may be performed at any time. It should be performed at least daily.**

2. Check that the ends of the liquid light guide and the 8 mm curing tip are clean and free of fingerprints or composite buildup.

3. With the liquid light guide as straight as possible (no twists or tight bends) insert the 8 mm curing tip fully into the calibration port then slide the ring magnet on the liquid light guide to the rear. The light turns on. Hold the curing tip firmly against the stop in the calibration port.

4. The calibration process will automatically begin.

5. Two audible signals will be heard each second for 10 seconds.

6. At the end of the calibration period 3 audible signals will be heard and the display will indicate the adjusted curing time.

7. Release the ring magnet. The light turns off. Carefully remove the curing tip from the calibration port.

8. When the light output from the curing tip decreases, as measured by the built-in radiometer in the calibration port, the microprocessor controlled electronics automatically readjusts the light output so that the calculated energy is achieved for the programmed time. When the light output has been increased to its maximum output and cannot produce the required curing energy in the programmed time, the time will automatically increase to ensure the calculated energy. When the increased time required is twice the programmed time, the display will flash and the curing tip, liquid light guide and/or the lamp should be replaced.

   When the light output has been increased to its maximum output and the time has automatically increased to produce the calculated energy, reducing the programmed intensity will automatically reduce the increased time.

**STERILIZATION**

Curing tips should be sterilized prior to use to prevent cross-contamination between patients. Sterilization should be performed in a conventional dental autoclave at 121°C (250°F) for 30 minutes. A sterilization pouch should be used. Curing tips should cool for 20 minutes prior to handling. Before use examine the tip for damage and cleanliness. Clean with alcohol if required.

**NOTE:** Do not use chemical disinfectants or a chemiclave due to the potential of discoloration of the curing tip and the resultant loss of light output.

To prevent damaging the liquid light guide and the ring magnet, do not autoclave. Use non-corrosive surface disinfectants such as BIREX® se.

To clean the ring magnet turn the keyswitch to the OFF (0) position and slide the ring magnet forward off of the liquid light guide. After cleaning and **with power off**, replace the ring magnet on the liquid light guide with the tapered end towards the curing tip position.

Dispose of used light shields in accordance with approved methods for medical waste.
RESETTING THE ARC LIGHT II TO THE FACTORY SETTINGS

1. Turn the key switch to the OFF (0) position.
2. Press and hold the PROGRAM button.
3. Turn the key switch to the ON (1) position.
4. Release the PROGRAM button.
5. The ARC LIGHT II will be reset to the factory settings. All custom programs will be erased.
CURE MODE OR
BLEACH MODE PROGRAMMING

1. Turn the keyswitch to the **ON (1)** position.

2. Press the **SELECT** button until the green **CURE** LED or **BLEACH** LED is illuminated. An audible signal will be heard each time the **SELECT** button is pressed.

3. Press the **PROGRAM** button. An audible signal will be heard, the display will begin to flash and the green **TIME** LED will be illuminated.

4. Press the **UP (▲)** button to increase the total time or the **DOWN (▼)** button to decrease the total time in 1 second increments as shown on the display.

5. When the desired total time is set, press the **PROGRAM** button. An audible signal will be heard, the display will continue to flash and the green **INTENSITY** LED will be illuminated.

6. Press the **UP (▲)** button to increase the intensity or the **DOWN (▼)** button to decrease the intensity in 5% increments as shown on the display.

**NOTE**: Maximum Curing or Bleaching Intensity is Displayed as 99%

7. When the desired intensity is set, press the **PROGRAM** button. Two audible signals will be heard, the display will stop flashing, the green **TIME** LED will be illuminated and the new programmed total time and intensity will be memorized.

8. If after completing the programming, the display indicates a longer time than programmed, refer to the Calibration Procedure item 8.

9. The **ARC Light II** is now ready for use.
**CP (CUSTOM PROGRAM) MODE**

**CP RAMP MODE**
- **FINAL INTENSITY RANGE:** 50% - 100%
- **INITIAL INTENSITY RANGE:** 50% - FINAL
- **INITIAL TIME RANGE:** 0 - TOTAL
- **TOTAL TIME RANGE:** 1 - 60 SECONDS

**CP RAMP MODE - FULL RAMP**
- **INITIAL TIME = TOTAL TIME**
- **FINAL INTENSITY RANGE:** 50% - 100%
- **INITIAL INTENSITY RANGE:** 50% - FINAL
- **TOTAL TIME RANGE:** 1 - 60 SECONDS

**CP STEP MODE**
- **FINAL INTENSITY RANGE:** 50% - 100%
- **INITIAL INTENSITY RANGE:** 50% - FINAL
- **INITIAL TIME RANGE:** 0 - TOTAL
- **TOTAL TIME RANGE:** 1 - 60 SECONDS
PROGRAMMING THE CP (CUSTOM PROGRAM) RAMP (STEADY LED) OR STEP (FLASHING LED) MODE

1. Turn the keyswitch to the ON (I) position.

2. Press the SELECT button until the green CP LED is illuminated for the CP RAMP mode or flashing for the CP STEP mode. An audible signal will be heard each time the SELECT button is pressed.

3. Press the PROGRAM button. An audible signal will be heard, the display will begin to flash and the green TIME LED will be illuminated.

4. Press the UP (▲) button to increase the total time or the DOWN (▼) button to decrease the total time in 1 second increments as shown on the display.

5. When the desired total time is set, press the PROGRAM button. An audible signal will be heard, the display will continue to flash and the green TIME LED will flash. You are now able to program the initial time (ramp or step time).

6. Press the UP (▲) button to increase the initial time or the DOWN (▼) button to decrease the initial time in 1 second increments as shown on the display.

NOTE: In the CP RAMP mode, to program a full ramp set the initial time equal to the total time.

7. When the desired initial time is set, press the PROGRAM button. An audible signal will be heard, the display will continue to flash and the green INTENSITY LED will be illuminated.

8. Press the UP (▲) button to increase the final intensity or the DOWN (▼) button to decrease the final intensity in 5% increments as shown on the display.

NOTE: Maximum Intensity is Displayed as 99%

9. When the final curing intensity is set, press the PROGRAM button. An audible signal will be heard, the display will continue to flash and the green INTENSITY LED will flash. You are now able to program the initial intensity (ramp or step initial intensity).

10. Press the UP (▲) button to increase the initial intensity or the DOWN (▼) button to decrease the initial intensity in 5% increments as shown on the display.

11. When the desired initial intensity is set, press the PROGRAM button. Two audible signals will be heard, the display will stop flashing, the green TIME LED will be illuminated and the new programmed total time, initial time, final intensity and initial intensity will be memorized.

12. If after completing the programming, the display indicates a longer time than programmed, refer to the Calibration Procedure item 8.

13. The ARC Light II is now ready for use.
PROGRAMMING THE AUDIBLE SIGNALS

AUDIBLE SIGNALS AFTER EACH SECOND

1. Turn the keyswitch to the **ON (1)** position.

2. Press the **SELECT** button until the desired mode’s green LED is illuminated or flashing for the **CP STEP** mode. An audible signal will be heard each time the **SELECT** button is pressed.

3. Turn the keyswitch to the **OFF (0)** position.

4. Press and hold the **UP (▲)** button.

5. Turn the keyswitch to the **ON (1)** position.

6. An audible signal will be heard and the audible signals after each second will be turned on if they were previously off and off if they were previously on. The 2 audible signals after the elapsed programmed time will always be heard.

7. Release the **UP (▲)** button.

AUDIBLE SIGNAL AT HALF THE PROGRAMMED TIME

1. Turn the keyswitch to the **ON (1)** position.

2. Press the **SELECT** button until the desired mode’s green LED is illuminated or flashing for the **CP STEP** mode). An audible signal will be heard each time the **SELECT** button is pressed.

3. Turn the keyswitch to the **OFF (0)** position.

4. Press and hold the **DOWN (▼)** button.

5. Turn the keyswitch to the **ON (1)** position.

6. An audible signal will be heard and the audible signal at half the programmed time will be turned on if it was previously off and off if it was previously on. The 2 audible signals after the elapsed programmed time will always be heard.

7. Release the **DOWN (▼)** button.
<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display does not turn on.</td>
<td>Line cord disconnected.</td>
<td>Connect line cord to active AC outlet.</td>
</tr>
<tr>
<td></td>
<td>Key switch in OFF (0) position.</td>
<td>Turn key switch to ON (1) position.</td>
</tr>
<tr>
<td></td>
<td>Circuit breaker tripped.</td>
<td>Press and reset circuit breaker.</td>
</tr>
<tr>
<td></td>
<td>Liquid light guide not installed or not fully seated.</td>
<td>Insert plastic end of liquid light guide fully into light port.</td>
</tr>
<tr>
<td></td>
<td>Handpiece in handpiece holder.</td>
<td>Remove handpiece from handpiece holder.</td>
</tr>
<tr>
<td></td>
<td>Thermal interlock tripped.</td>
<td>Place the <strong>ARC Light II</strong> in a location that does not block the air flow from the fan opening.</td>
</tr>
<tr>
<td>Lamp turns on when removed from the holder and when keyswitch is turned to “ON” (1) position without sliding ring magnet to rear.</td>
<td>Liquid Light Guide plug is not fully inserted into connector on side of unit.</td>
<td>Insert Liquid Light Guide plug fully into connector.</td>
</tr>
<tr>
<td>New system does not calibrate to programmed time.</td>
<td>Dirt or fingerprints on liquid light guide ends or curing tip.</td>
<td>Clean with alcohol and a swab.</td>
</tr>
<tr>
<td></td>
<td>Composite buildup on curing tip.</td>
<td>Clean or replace curing tip.</td>
</tr>
<tr>
<td></td>
<td>Damaged curing tip.</td>
<td>Replace the curing tip.</td>
</tr>
<tr>
<td></td>
<td>Damaged liquid light guide.</td>
<td>Replace the liquid light guide.</td>
</tr>
<tr>
<td>Display flashes when not in programming mode and displays twice the programmed time or “99”.</td>
<td>Composite buildup on curing tip.</td>
<td>Clean curing tip.</td>
</tr>
<tr>
<td></td>
<td>Damaged curing tip.</td>
<td>Replace the curing tip.</td>
</tr>
<tr>
<td></td>
<td>Damaged liquid light guide.</td>
<td>Replace the liquid light guide.</td>
</tr>
<tr>
<td></td>
<td>Lamp aging after long life.</td>
<td>Have the lamp replaced by an Air Techniques’ authorized service person.</td>
</tr>
</tbody>
</table>
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply Voltage</td>
<td>100 - 240 Volts ± 10%</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 - 60 Hz</td>
</tr>
<tr>
<td>Current</td>
<td>3.5 Amps</td>
</tr>
<tr>
<td>Circuit Breakers</td>
<td>5 Amps on each side of AC line</td>
</tr>
<tr>
<td>Light output wavelength</td>
<td>430 - 500 nm min (FWHM - full width half maximum)</td>
</tr>
<tr>
<td>Light output</td>
<td>2000 mw/cm² (max initial output)</td>
</tr>
<tr>
<td>Light guide</td>
<td>Liquid light guide 5-1/2 feet</td>
</tr>
<tr>
<td>Curing Tip</td>
<td>Fused fiber optics 8mm diameter</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Width: 10.5 inches, Height: 5.7 inches, Depth: 11.2 inches</td>
</tr>
<tr>
<td>Weight</td>
<td>10 pounds (main assembly)</td>
</tr>
<tr>
<td>Environmental conditions</td>
<td>0°C to +71°C</td>
</tr>
<tr>
<td>for transport and storage</td>
<td>95% Relative humidity (no condensation)</td>
</tr>
<tr>
<td>User serviceable items</td>
<td>Liquid light guide (replacement), Curing tip (replacement), Protective shields (replacement), Line cord (replacement)</td>
</tr>
<tr>
<td>IEC601-1 Classification</td>
<td>Class 1, Type BF, Portable, Operation - Continuous with intermittent loading (75% Duty Cycle), Equipment not suitable for use in the presence of flammable anaesthetic mixture(s), Protection against ingress of liquids - Ordinary, Electromagnetic interference - complies with IEC 601-1-2</td>
</tr>
</tbody>
</table>
Air Techniques is a leading manufacturer of dental equipment from air compressors and vacuum systems to x-ray film processors, intraoral video cameras, and most recently air abrasion and automatic rapid curing light systems. We have been manufacturing quality products for the dental professional since 1962.

- PERI-PRO®
- A/T 2000® XR
- VISTACAM OMNI
- AIRSTAR®
- TURBO 2000
- VACSTAR
- VACUSELTZER
- AIRDENT II
- ARC Light
- DENTO-VAC