

**MONITEX**

# BlueLEX™ BT-150

*The innovative corded LED curing light*



**User Manual**

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## **PREFACE**

1. Thank you for choosing Monitex Product for your advance integration.  
Prior to using the Digital X-Ray Film Scanner, please read this User Manual carefully and keep this manual well preserved for future reference.
2. Please contact your local dealer if any damage or problem occurs.  
Attempt to try and repair this unit by unauthorized technician personnel **WILL** automatically lead to the forfeit and negation of the warranty agreement.
3. The specifications are subject to change and revision without prior notice.

## **DISCLAIMER**

1. Monitex shall not assume any responsibility if any malfunction or damage was caused by improper operation, removal, modification or maintenance.
2. We shall not assume any responsibility if any malfunction or damage was caused by operating under unsuited environment.
3. We shall not assume any responsibility if any malfunction or damage was caused by forceful majeure.
4. We reserve the right to explain for the given cause of the Defective products which might have been caused by natural disasters or abnormal temperature, humidity that is inconcurrent to the guidance instructed in this manual.

## **SAFETY PRECAUTION**

Please follow instruction steps in this manual for correct and safe operations of the device. Pay special attention to the following warning signs beside the operation descriptions where applicable

**Warning: Beware of high temperature and strong light. DO NOT look directly into the light source which might cause bodily harm to one's eyes.**

1. Danger — This message appears where the operation may potentially cause severe injury if instruction not followed correctly.
2. Warning — This message appears where the operation may cause serious damage or defect to other objects.
3. Caution — This message appears where the operation may cause slight damage to other objects or slight bodily harm if operation not properly conducted.
4. Important — This message appears where the operation may involve risk of defecting the device itself if not properly conducted.

## **Sterilization for Fiber-Optic Tip:**

After operation on each patient, the fiber-optic tip should be disinfected or sterilized. Please autoclave the tip to 134°C/75 psi for maximum cleansing result. The sterilization time at 134°C should be 5 minutes.

**Note: Please disconnect the fiber-optic tip off the handpiece and autoclave it by itself.**

## **Product Cleansing:**

If there is any dirt or stains on the surface of control panel or handpiece, please use cloth to wipe & clean. If the stain is serious, then please use a neutral cleaning agent.

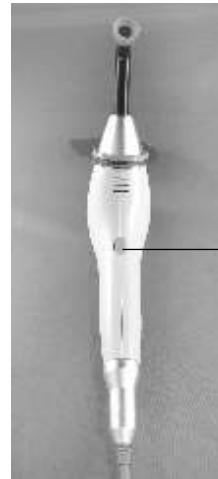
**Note: Never use a solvent or volatile oil for cleaning. This can lead to fading in the fiber optic shades.**

## **PARTS & FUNCTIONS**



Three modes  
setting button:  
**M1** - Full Power  
**M2** - Ramp  
**M3** - Pulse

Time setting button



ON/  
OFF/  
SET

## GENERAL INSTALLATION

**\*\* Please follow the instructions below carefully to ensure proper function of the device.**

1. Insert the fiber optic probe into the handpiece and make sure it is securely installed at the fixed position.
2. Connect the power cable and plug to an electric outlet.
3. Put on the anti-glare cone and the protective shield and adjust the cone and shield position according to the dentist's preference.

## OPERATION

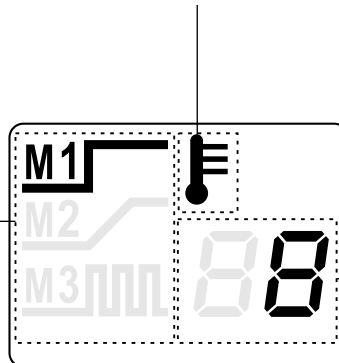
**Thermometer:**

The thermometer sign will blink after continuous usage of 30 consecutive sessions with each session lasts for 30 seconds. This function will shut off the unit to prevent the device from over-heating.

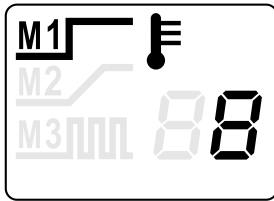
**MODES:**

There are 3 modes at your choice.

The working time of each mode can be reset according to Dentist's preference.

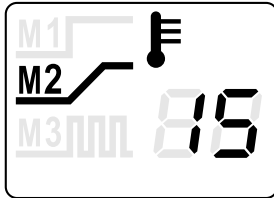


## Mode:



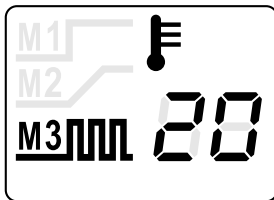
### **Mode 1: Full power**

Default Time: 8 seconds with optional time setting to Doctor's preference.



### **Mode 2 : Ramp Power**

Default Time: 15 seconds with optional time setting to Doctor's preference.



### **Mode 3 : Pulse mode**

Full Power 1 second on, 1 second off.  
Default Time: 20 seconds with optional time setting to Doctor's preference.

## Time Setting:

1. Once the user sets the mode ( M1 or M3), please press the TIME button continuously for longer than 2 seconds ( till the number shown in the LCD panel starts to blink), and press again to change time, a second per push.
2. Operating time will start add up after one second if the user pushes the TIME button continuously.
3. Press the ON/OFF/SET button to set the timer according to users' preference.

## **Operation :**

1. After setting up the MODE selection and operating time, please press the ON/OFF/SET button to start.
2. Press again to stop operation at any time.
3. Auto Power Saving Mode: the device will turn off automatically if it is left idled for longer than 90 seconds. Operation restarts once the user presses the trigger.
4. Under “M1, 8 seconds” setting, the device can be continuously utilized for approximately 30 curing sessions.

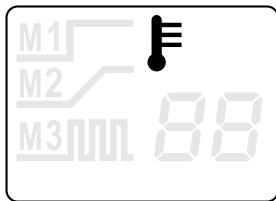
## **Caution:**

Operating BT-150 at Mode 1, 8 seconds for more than 30 cycles continuously could result in high temperature accumulation, which is hazardous to the health of patient's teeth.

## **Cooling System:**

BlueLEX GT-1500 is equipped with a special built-in magnetic fan motor to prevent over-heating and to prolong the light emitting time.

## **IMPORTANT:**



- >The cooling system will be activated with the motor fan starts turning when the heat starts to accumulate.
- >The Thermometer Sign will start to blink and shut off the system for complete cooling and for protection purpose.

## **TROUBLE SHOOTING TIPS**

### **CAUTION :**

When failure or error occurs, please refer to following solutions to check the device. If problem remains, please contact your nearest local dealer for repair or maintenance.

<b>DESCRIPTIONS</b>		
<b>FAILURE</b>	<b>CAUSE</b>	<b>SOLUTION</b>
LCD device is unable to light up	Defect in LCD device or pc board	Return for repair
No activation	Defect in main IC board	Return for repair
	Poor connection of the cable or plug	Check the connection
LED lamp is unable to emit	Defect in IC board or LED module	Return for repair

## **SPECIFICATIONS**

### **CURING HANDPIECE :**

LED lamp: 5 Watt

Voltage: AC 100V~240V 50/60 Hz

Weight: Approx. 203 g

Light Intensity: up to 1,000 mW/cm<sup>2</sup>

Wavelength: 450 ~ 470 nm

Dimesion: Approx. 19.75x4.24x7.7cm

### **ADAPTER :**

Input: AC100V~240V 50/60 HZ

Output: DC9V

Current: 1.3A(TYPICAL)

### **LIGHT GUIDE :**

Fiber optic with tapered tip

(  $\phi$  10mm taper to  $\phi$  8mm)

Weight: Approx. 25g

Autoclavable up to 134°C