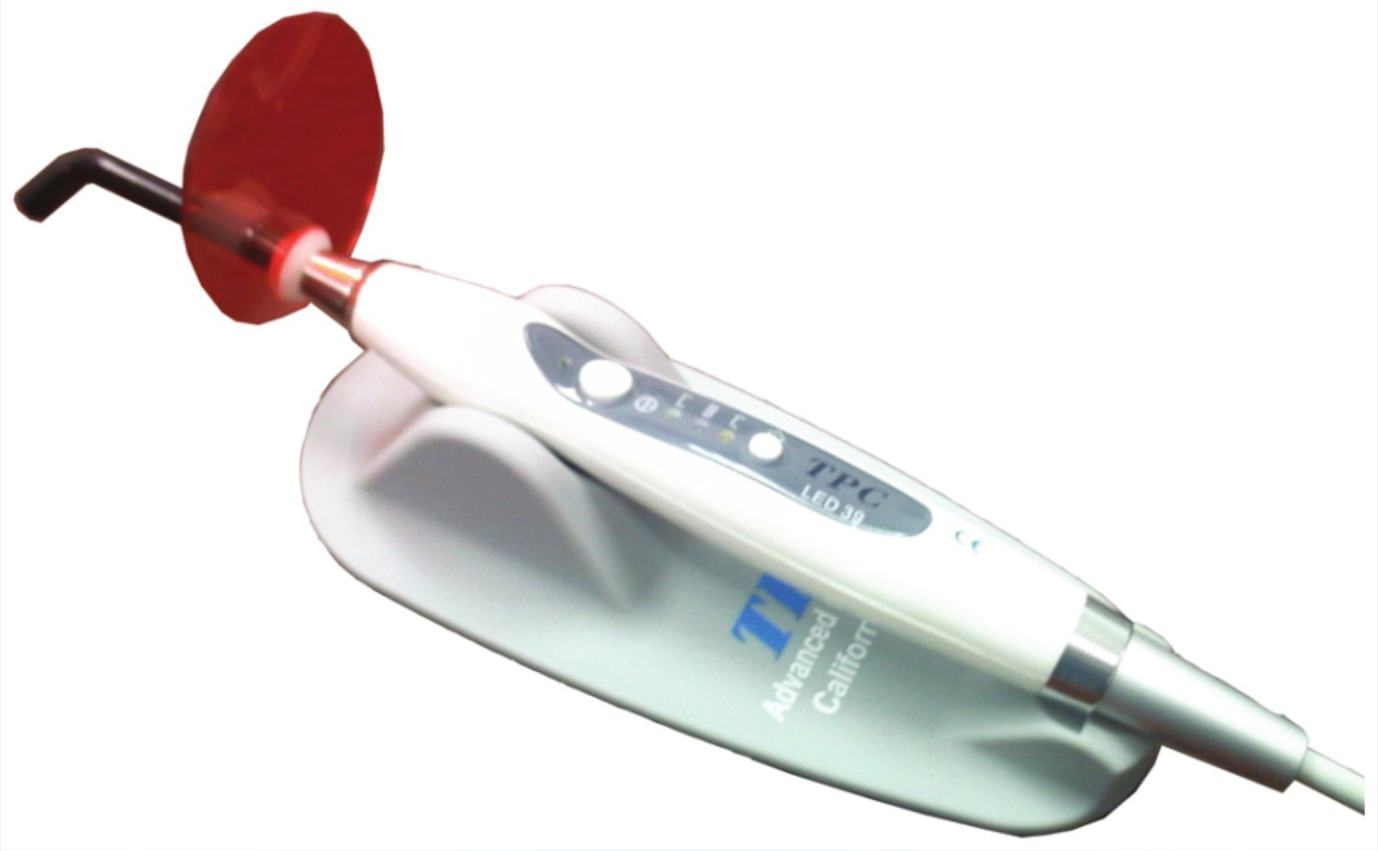
CORDED LED CURING LIGHT

LED 39N

Installation, Operation & User Manual

Corded LED curing light with handpiece holder · Includes troubleshooting and warranty card



DOCUMENT
LED 39N Manual
November 2026 · LED39N-MAN-002

TPC DENTAL
851 S. Lawson St.
City of Industry, CA 91748

CONTACT
Tech support (800) 560-8222
service@tpcdental.com

CONTENTS

In this manual

01 **General information** 3
Introduction · Safety symbols · Technical information

02 **Features** 5
Curing programs · Timer · Sleep mode · Overheat indicator · What's in the box

03 **Installation** 7
Light guide · Light shield · Power

04 **Operation** 8
Program · Curing · Turning off

05 **Care and warranty** 9
Maintenance · Warranty · Warranty card

06 **Troubleshooting** 11
Problems, causes and solutions · Contact

How to read this manual

⚠ **WARNING** Risk of injury or damage to the equipment. Follow exactly.

ⓘ **NOTE** Information that makes the job easier or the result more reliable.

Technical support

(800) 560-8222

Monday to Friday, 8:00 AM to 5:00 PM Pacific.

SECTION 01

Introduction

Thank you for purchasing the LED 39N. It is a corded dental curing light that uses the latest LED technology to polymerize composite resin.

Before you start

- The LED 39N must be installed and operated by a qualified dental professional.
- Read this entire manual before installation or operation.
- Wear colored protective glasses to avoid eye injury from the LED light.

Safety symbols



Attention
Important information. Refer to this manual for more information.



High-intensity light
Protect your eyes from the light this product generates.



Type B applied part
Beware of electrical shock or injury.



Class II medical equipment
Double insulated.



Electronic waste
Dispose of properly when you stop using the device.

GENERAL INFORMATION

Technical information

Light range	430–490 nm
Light intensity at the tip	1,000 mW/cm²
Operating temperature	15–30 °C (60–86 °F). The unit turns off automatically when the temperature at the light guide tip reaches 48 °C (118 °F).
Power input, curing light	12 V DC @ 1.2 A
Power input, power supply	100–240 V AC, 50–60 Hz
Pulse rate	10 Hz
Pulse duty cycle	50%
Storage and transport	0–40 °C (32–104 °F) · 0–100% relative humidity · –1,000 to +9,000 m elevation

NOTE Follow the composite manufacturer's instructions when choosing the curing time.

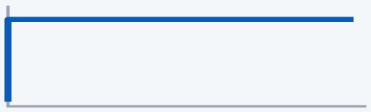
SECTION 02

Features

- Latest LED technology with minimal heat output
- Three preset curing programs
- Runs directly from the power supply; no battery to charge

Curing programs

F FAST



Intensity Time

Full power output for the whole curing time.

P PULSE



Intensity Time

Full power output in 0.5-second pulses.

R RAMP



Intensity Time

Soft start: output rises gradually, then stays at full power to the end.

Fixed timer

Each cure runs for 20 seconds, then stops automatically.

Auto memory

The light keeps your last curing program.

Sleep mode

If the LED 39N is not used for 3 minutes, it goes into sleep mode to save power.

Overheat indicator

Green means the light has power and is ready. Yellow means the handpiece has overheated; let it cool for 10 minutes.

FEATURES

What's in the box



1	Light guide	2	Light shield
3	Handpiece holder (base)	4	Power supply
5	Curing light handpiece		

SECTION 03

Installation

1 · Fit the light guide

Push the light guide into the handpiece until it is fully seated.



Fig. 1 Insert the light guide



Fig. 2 Fully seated

2 · Fit the light shield

Place the light shield over the light guide and secure it on the light guide chuck.



Fig. 3 Fit the light shield



Fig. 4 Shield on the chuck

3 · Connect the power

Plug the power supply into the handpiece cord and into a wall outlet.

SECTION 04

Operation



Fig. 5 Handpiece keypad: curing switch (left), program indicators (center), function button (right)

A · Set the curing program

Press the function button to step through FAST, PULSE and RAMP. The program indicators show the one selected.

B · Cure

Press the curing switch to start. Press it again to stop early. When the program ends, the light turns off.

C · Turn off

The light goes to sleep on its own after 3 minutes. To turn it off completely, unplug the power supply from the wall outlet.

⚠ **CAUTION** Never look directly into the light. Use the light shield and colored protective glasses.

SECTION 05

Maintenance

1. Keep the light guide free of resin and other material.
2. If material sticks to the light guide, wipe it off right away with a soft cloth. A clean guide gives better intensity and curing.
3. Sterilize the light guide after each use. It can be autoclaved at 121 °C (250 °F) for no more than 15 minutes. Let it cool before handling.
4. Wipe the handpiece and eye protector with clean water, then disinfect them using standard disinfection procedures.
5. Keep the handpiece in its holder when not in use.

⚠ **WARNING** The user should wear colored protective glasses to avoid eye injury from the LED light.

CARE AND WARRANTY

Warranty

1 year limited warranty

TPC products are guaranteed free from defects in workmanship and materials for 1 year from the date of purchase, unless otherwise stated. TPC will repair or replace any defective part at no charge during the warranty period.

Not covered

- Light guides
- Labor, and shipping to and from TPC
- Normal wear or stains on the surface finish
- Damage from improper installation or misuse

Shipping damage

Claims against the freight carrier must be started when the damaged items are received. Filing the claim is the customer's responsibility.

TPC improves its products continuously and may modify them without notice, without obligation to modify items already made.

Warranty card

Model: LED 39N

NAME _____

EMAIL _____

ADDRESS _____

PHONE _____

CITY / STATE / ZIP _____

FAX _____

HANDPIECE SN _____

Complete this card and return it to TPC with a copy of your invoice or packing slip: TPC Dental, 851 S. Lawson St., City of Industry, CA 91748, or email a scanned copy to service@tpcdental.com.

SECTION 06

Troubleshooting

	PROBLEM	CAUSE	SOLUTION
01	**Light intensity seems low**	Light guide dirty or cracked	**Clean the light guide; replace it if cracked**
02	**Mode changes on its own**	Function button is stuck in	**Check the button is not stuck; press and release it**
03	**Mode will not change**	Function button is stuck	**Check the button presses in and springs back**
04	**Light guide is loose in the handpiece**	O-ring missing	**Remove the light guide and check the O-ring at the end of the handpiece**
05	**No mode or status lights**	No power from the power supply	**Check all connections. If there is voltage into the power supply but no DC voltage out, replace the power supply.**
06	**Power supply has DC output but the light still does not work**	Fault in the handpiece	**Send the unit to TPC for factory service**

Technical support

Monday to Friday, 8:00 AM to 5:00 PM Pacific

(800) 560-8222

service@tpcdental.com

TPC

TECHNICAL SUPPORT

(800) 560-8222

service@tpcdental.com

Monday to Friday, 8:00 AM to 5:00 PM Pacific

ADDRESS

TPC Dental
851 S. Lawson St.
City of Industry, CA 91748

OFFICE

Phone (626) 810-4337
Fax (626) 810-4245

ONLINE

tpcdental.com