

REDEFINING

L A S E R T H E R A P Y

BETTER SCIENCE.
BETTER ENGINEERING.
BETTER RESULTS.

ASPEN LASER

INTRODUCING THE

APEX LASER SERIES

ASPEN'S REVOLUTIONARY NEW TRI-WAVE TECHNOLOGY

Aspen Laser Systems continues to scale even greater heights with the introduction of its latest technological game changer, the **Apex Laser Series**. Equipped with exciting new innovations and jaw-dropping advancements, the Apex Laser Series is redefining photobiomodulation therapy. The result of years of extensive research and development, the Apex Series offers unparalleled therapeutic laser performance. With its built-in safety features and custom mobility options, the Apex Series provides health care professionals with consistent, significantly enhanced clinical results never before seen in other laser systems.

AS AN INDUSTRY LEADER FOR THE PAST 30 YEARS, ASPEN LASER SYSTEMS REMAINS ON THE CUTTING EDGE OF PHOTOMEDICINE, PAVING THE WAY TO BETTER SCIENCE, IMPROVED CLINICAL OUTCOMES, AND HEALTHIER LIVES.



INSIDE THE **APEX TRI-WAVE LASER SYSTEM**

The world's **first and only** laser device of its kind, the **Apex Tri-Wave Laser System** is changing the way health care professionals are treating pain and injuries. Uniquely featuring three wavelengths of 810nm, 980nm and 1064nm, the Apex Tri-Wave incorporates 15-watt high power with each wavelength for a total combined output of 45 watts.

810nm Wavelength

The 810nm wavelength allows for rapid activation of hemoglobin oxygenation, the process by which energetic supply is transferred to muscles and tendons, facilitating regeneration. Clinical studies indicate that the 810nm wavelength influences mitochondrial cytochrome c oxidase by increasing cytosolic calcium and decreasing mitochondrial calcium.

980nm Wavelength

The 980nm wavelength optimizes the action on thermo and mechanical receptors for a rapid analgesic effect which results in improved pain control, circulation and muscle relaxation. Clinical studies indicate that the 980nm wavelength primarily affects temperature-gated calcium ion channels.

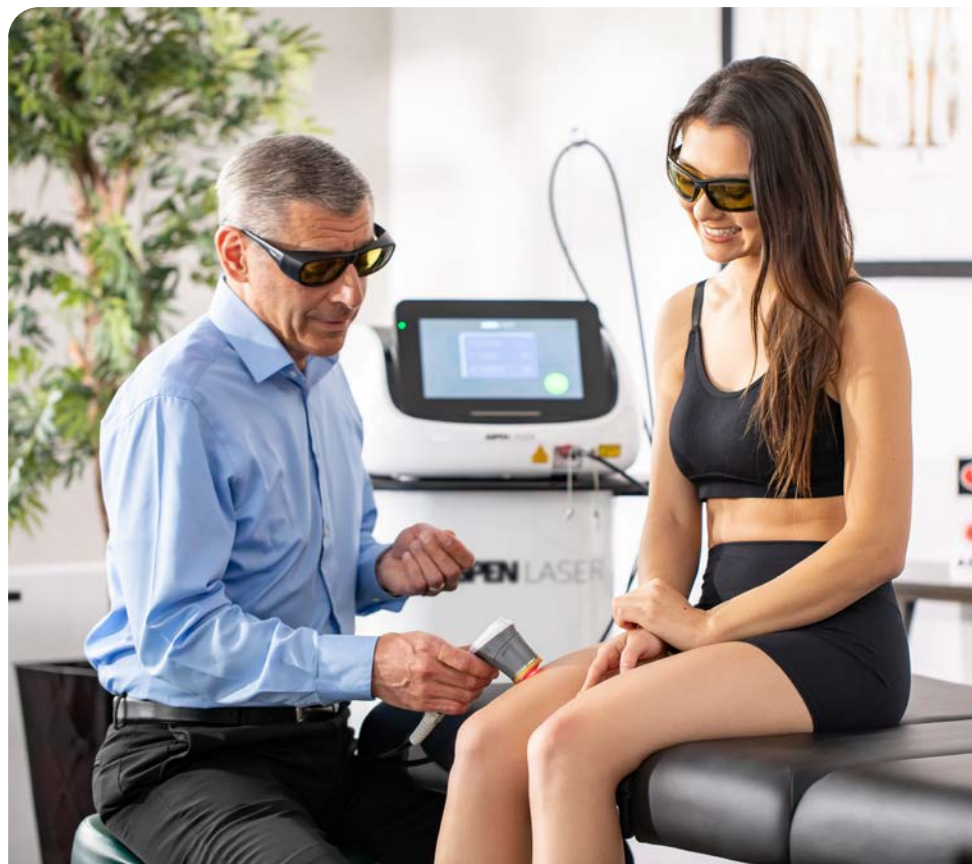
1064nm Wavelength

The 1064nm wavelength is a longer wavelength that provides deeper tissue penetration. Clinical studies indicate that it has minimal dispersion within biological tissues due to its decreased melanin absorption. The result is deep activation of metabolic processes vital for all cellular activities.

PowerDose Diodes

At the core of the Apex Tri-Wave System are its PowerDose Diodes, which provide the highest standard “average power” output. In contrast to laser devices that only achieve these levels at “peak power,” the Apex System’s average power has proven to be a key for generating the best clinical outcomes. These innovative PowerDose Diodes feature:

- **Unprecedented power per wavelength**
- **Durable, solid-state design for long-lasting operating life**
- **Exceptional craftsmanship — German manufacturing that represents the highest international standard of quality**





Wavelength Multiplexer Technology

Wavelength Multiplexer Technology incorporates multiple wavelengths operating in various configurations, emitted from a single output. This provides better penetration — from shallow to deep — ensuring the level of tissue saturation required for therapeutic treatments. Additional benefits of Wavelength Multiplexer Technology include:

- **The broadest range of wavelengths providing different mechanisms of action**
- **Direct selection of wavelengths from one to four different wavelengths**
- **Adjustable power levels per wavelength**

MORE WAVELENGTHS = MORE POWER
MORE MODES = MORE PROTOCOLS
MORE INNOVATION = MORE RESULTS!

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SmartMode Controls

Featuring sophisticated laser operating modes, the Apex System's SmartMode Controls offer continuous wave (CW) emissions along with pulsing emissions (PE) to provide unprecedented precision in achieving desired clinical outcomes, adjusted to suit each individual patient.

- **Fast treatments with continuous wave**
- **Broad range hertz (frequency settings) for pulsing treatments**
- **Patient Response Driven Protocols**

Patient Response Driven (PRD) Protocols

Consistent and replicable treatment results are now possible with PRD Protocols. In contrast to Preset Protocols commonly associated with other laser therapy treatments, the Apex PRD Protocols are based on a wide range of patient characteristics and patient responses to treatments. The advanced technology built into the Apex Laser Series provides the broadest range of features which are critical for effectively stimulating deep musculoskeletal, vascular, lymphatic and neurological structures.

- **Ability to directly select and adjust operating laser parameters**
- **Preventing under-dosing (low joules) and under-treatment (small area or incorrect wavelength)**
- **Reducing conditioning response utilizing variations and adjustments with each treatment**

TECHNICAL HIGHLIGHTS

LASER TYPE	▶ GaAlAs DIODE LASER
WAVELENGTH, LASER	▶ 810nm + 980nm + 1064nm
MAXIMUM POWER	▶ 45 WATTS
CONTROL MODE	▶ COLOR TOUCH SCREEN
VOLTAGE/CURRENT	▶ 110/220 VAC, 5A, 50/60Hz
DIMENSIONS	▶ inches: 16W x 19.5L x 8H
WEIGHT	▶ 32 LBS (14.5 KG)

For detailed technical specifications, please visit
AspenLasers.com