



GROW

YOUR BUSINESS

PRODUCE WHAT'S BEST

INTELLIGENT LIGHTING FOR COMMERCIAL CROP PRODUCTION



Photo Credit: Jeff Smith@FotoSmith USA

Produce What's Best

DELIVERING THE MARKET'S LEADING LED LIGHTING SOLUTIONS SINCE 2006



Heliospectra is an innovative Swedish company that has developed and patented advanced lighting solutions for commercial greenhouses, indoor farming and plant research.

Heliospectra is the industry's most proven intelligent lighting solution for controlled plant growth environments and solely focused on giving growers the ability to produce crops that look better, taste better, and last longer. Founded in 2006 to make commercial crop production more connected and efficient, we have more than 10 years' experience working with plants and LED lighting.

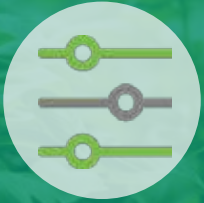
Our in-house plant lab has conducted more than 340 light strategy tests and in-house research trials. We understand the passion our customers have for their plants.

Our line of products are holistic, sustainable and flexible lighting technologies to substantially improve crop yield and quality while giving growers' the ability to standardize and forecast production.

Grow Your Business



INCREASE YIELD
Achieve consistent year-round yields by supplying perfect light 365 days per year to ensure optimal plant growth and crop quality.



CONTROL CONSISTENCY
Achieve negotiation advantages in the marketplace to secure premium pricing and deliver superior products with predictable results.



ACCELERATE HARVEST
Shave days off production and harvest cycles to maintain tight inventory control and time to market.



IMPROVE QUALITY
Enhance crop appearance, improve taste, decrease waste, boost nutritional values and extend shelf life, harvest after harvest.



Our Team of Experts

The Heliospectra team of experts includes biologists, plant researchers, software developers, technicians and lighting consultants. In addition to our our own experts, Heliospectra works closely with leading researchers and commercial growers around the world who use our products in their work to contribute important, cutting-edge knowledge.

We understand that every business is unique and needs a customized solution. We collaborate with our customers to make every growing environment successful.

Heliospectra's unlimited (unrivaled?) passion for plants and technology and our relentless pursuit of innovation and quality, we foster a culture driven to help growers' **produce what's best.**



“ Every grower wants to improve business performance and achieve premium produce prices and negotiation advantages in the marketplace. **HelioCORE** is the first and only light control solution that enables our customers and growers to forecast quotas, standardize production and increase year-round yields. ”

Ali Ahmadian, CEO
Heliospectra

HelioCORE Light Control Modules



DLI CONTROLLER
Support optimal plant growth and prioritize lamp use with Daily Light Integral (DLI) targets.



ON TARGET
Set PPFD levels and maximize plant photosynthesis efficiency with dynamic light response



SCHEDULE
Induce flowering or extend photoperiod with automated pre-set schedules.

INTRODUCING THE MARKET’S LEADING CONTROL SOFTWARE FOR

Consistent, High-Quality Crop Production Year-Round

HelioCORE centralized light management capabilities include:

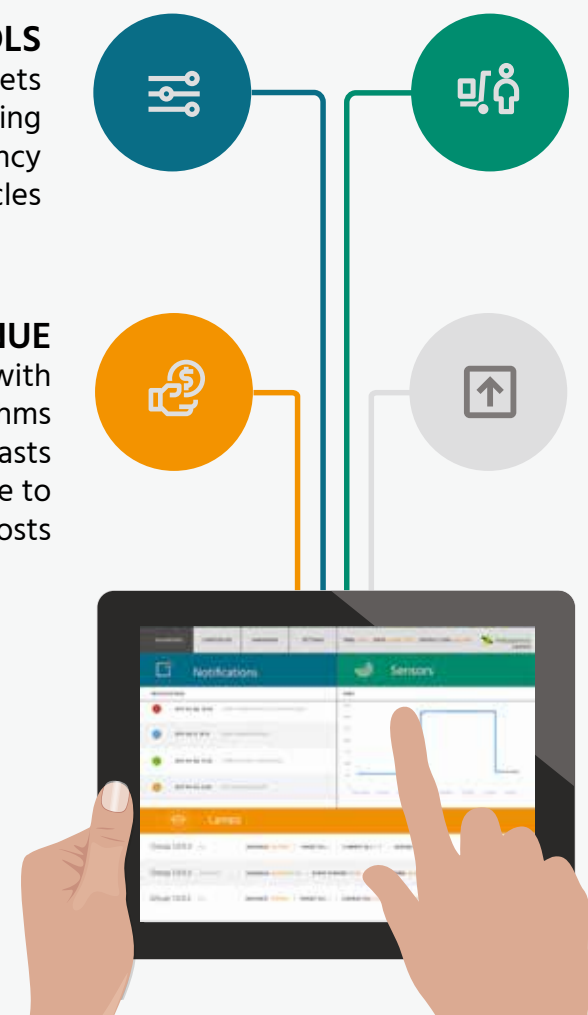
- **Automated light response** gives growers the ability to replicate pre-set light strategies across the plant growth cycle and ensures consistent light quality year-round.
- **Energy and power consumption monitoring** increases visibility so growers can adapt and optimize light use and schedules based on peak hours, rising energy costs and potential dollar savings.
- **Multiple light zones and groupings** standardize schedules and settings to allow growers to use their time and staff hours more efficiently.
- **Real-time management and remote notifications from any device**—anytime, anywhere—enable growers to monitor hardware status across their facilities and quickly control light settings, intensities and spectrum strategies.
- **Repository of data logs, historical lighting strategies and instance isolations** equip growers to make data-driven decisions for predictable, reliable and repeatable business forecasting and harvest results.

- ADVANCED CONTROLS**
- Identify and reach targets
 - Automate calendar scheduling
 - Control consistency
 - Accelerate harvest cycles

- INCREASE REVENUE**
- Increase yields with predictive algorithms
 - Accurate production forecasts
 - Monitor energy use to reduce costs

- SIMPLE SET UP**
- Easy installation
 - Pre-configured network
 - Centralized lamp management
 - Data-driven decisions

- OPTIMIZE OPERATIONS**
- Track light settings
 - Real-time updates
 - Coordinate automated schedules
 - Gain immediate visibility
 - Connect teams with notifications

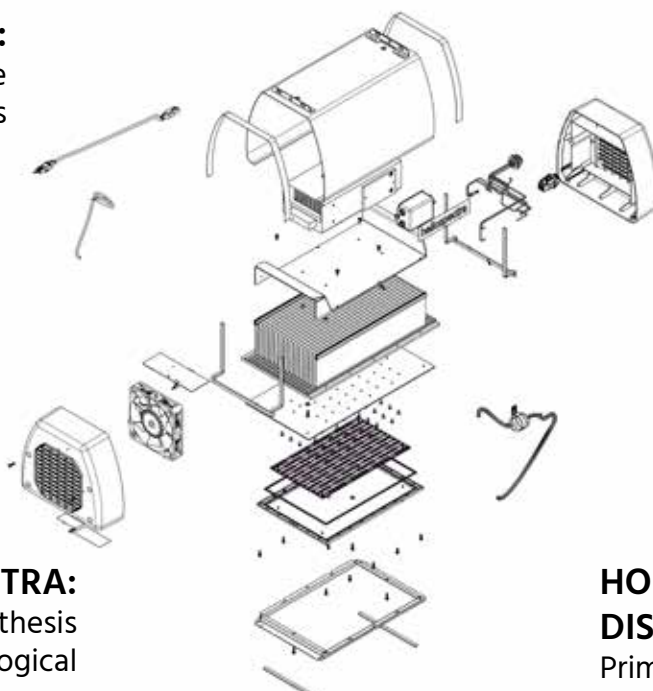


Proven Intelligent LED Lighting Solutions

LIFETIME:
Heliospectra LED lights are guaranteed for 50,000 hours

ACTIVE COOLING:
Built-in fans are rated for 70,000 hours to circulate air, maintaining temperature control and healthier plants

ADJUSTABLE SPECTRA:
Target active photosynthesis and coax desired morphological response











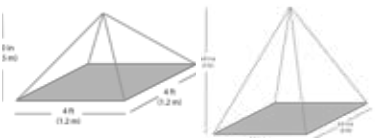





LOW MAINTENANCE:
The long lifespan and high quality LED diodes save maintenance time and reduce operating costs

MINIMAL SHADING:
Sleek exterior design eliminates potential shadows cast across the plants which can occur with natural sunlight

HOMOGENEOUS LIGHT DISTRIBUTION:
Primary and secondary optics ensure uniform light distribution across the canopy with deep penetration

Product Overview

SOLUTIONS FOR EVERY GROW ENVIRONMENT

	RESEARCH	TOP LIGHTS			LIGHTBAR
LIGHT	RX30	LX60 Series	LX50 Series	E60 Series	V71G
TYPE	Research Light	Top Light	High Voltage Top Light	Top Light	Lightbar
					
POWER	420 W	630 W	526 W	630 W	75 W
SPECTRUM		The Top Lights comes with two optional spectrum compositions: C-Plate and G-Plate 			
VARIABLE SPECTRUM	✓	✓	✓	-	-
PHOTON FLUX	329 µmol/s	848 - 926 µmol/s	to be confirmed	1021 - 1121 µmol/s	113 µmol/s
OPTICS	base reflector and high transparency clear acrylic glass plate	 The Top Lights comes with two optional optics: 01 for Indoor and 02 for Greenhouse			batwing optic strip on high transparency clear plastic lens
APPLICATION	Research 	Indoor 	Greenhouse 	Industrial Standard 	Vertical Farming 

High Quality Smart Lighting Systems

High quality Swedish engineering and manufacturing has allowed Heliospectra to deliver **the most durable product in the market.**

For more information about Heliospectra’s products visit www.heliospectra.com



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