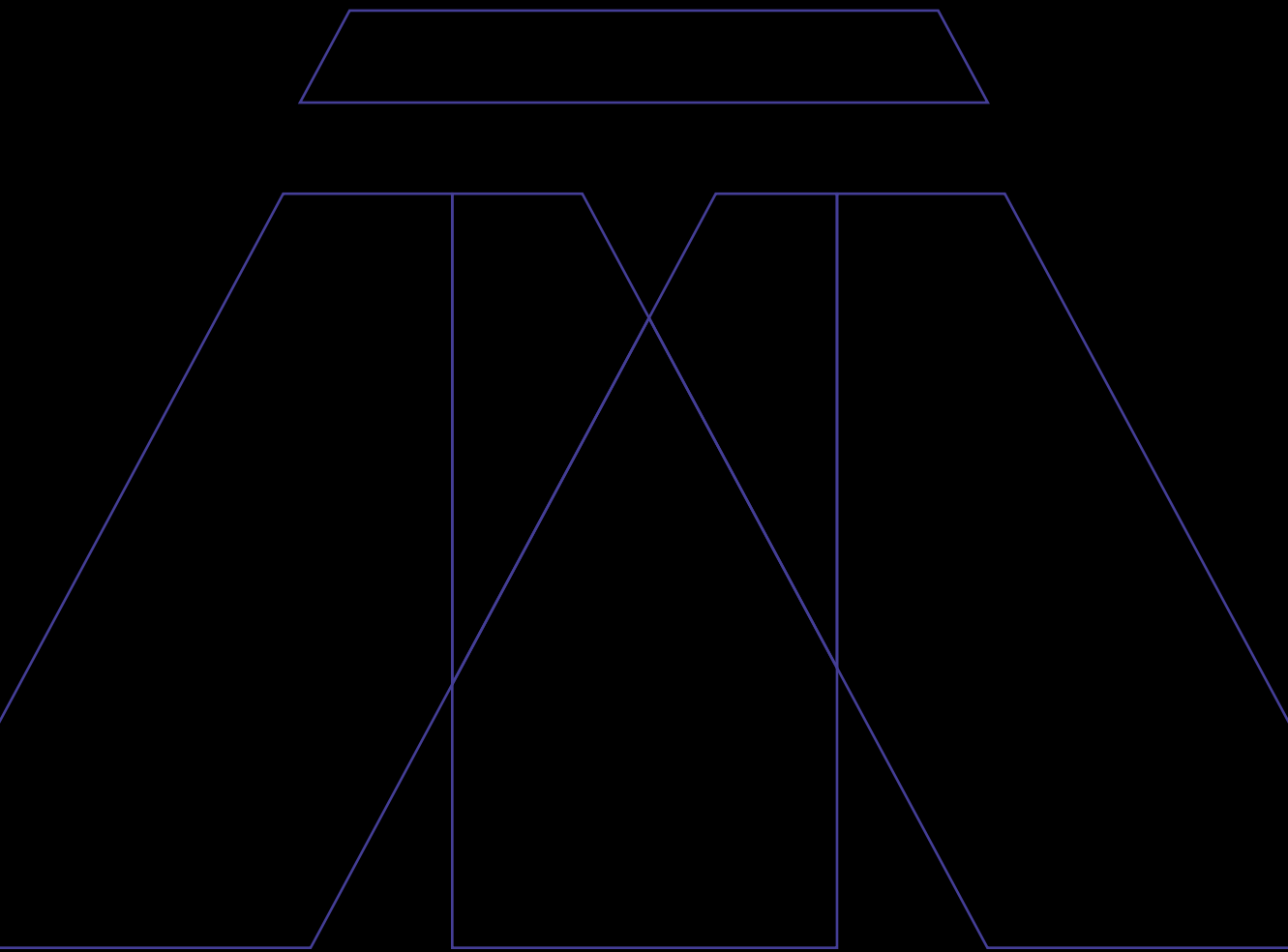




Grow Lighting

Product Catalogue

MASTER
YOUR
GROW



WHO WE ARE

Matrix Lighting was established in response to the increasing need for lighting solutions that are both premium and intuitive, with a specific focus on catering to the requirements of professional cultivators. Our commitment extends beyond conventional boundaries to provide growers with the essential tools for unparalleled success.

In essence, Matrix Lighting transcends being a mere assortment of products and instead represents a comprehensive endeavor that encapsulates our steadfast dedication to excellence, quality, and the ongoing progression of the science and art of cultivation.

MATRIX M6 M8

- **Industry-Leading Efficiency**

Featuring an exceptional efficiency rating of 3.0μmol/J, the Matrix M series sets the benchmark for energy-efficient horticultural lighting.
 - **Optimized Light Intensity**

The Matrix M series provides an exceptionally high and uniform light intensity, ensuring maximum crop yield and quality.
 - **Flexible Dimming Capability**

With the Matrix controller, lights can be dimmed from 25% to 100%, allowing growers precise control over their lighting conditions.
 - **Versatile Applications**

Suitable for a wide range of facilities, whether operated on a single or multi-layered system.
 - **Streamlined Installation**

Matrix M series lights are equipped with built-in drivers, reducing complexity and installation time.
 - **Long-Term Guarantee**

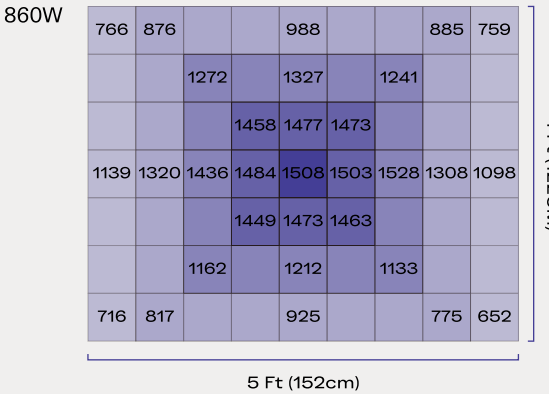
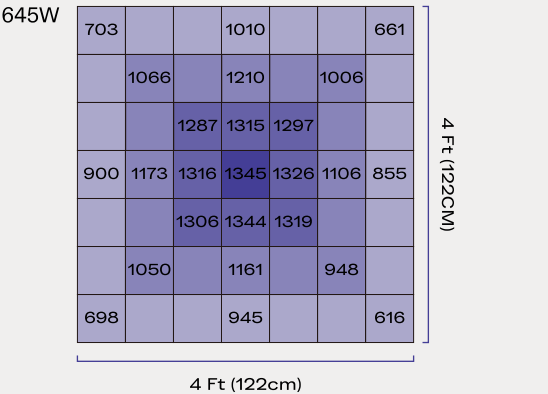
We back our products with a 5-year warranty, ensuring peace of mind for our customers.

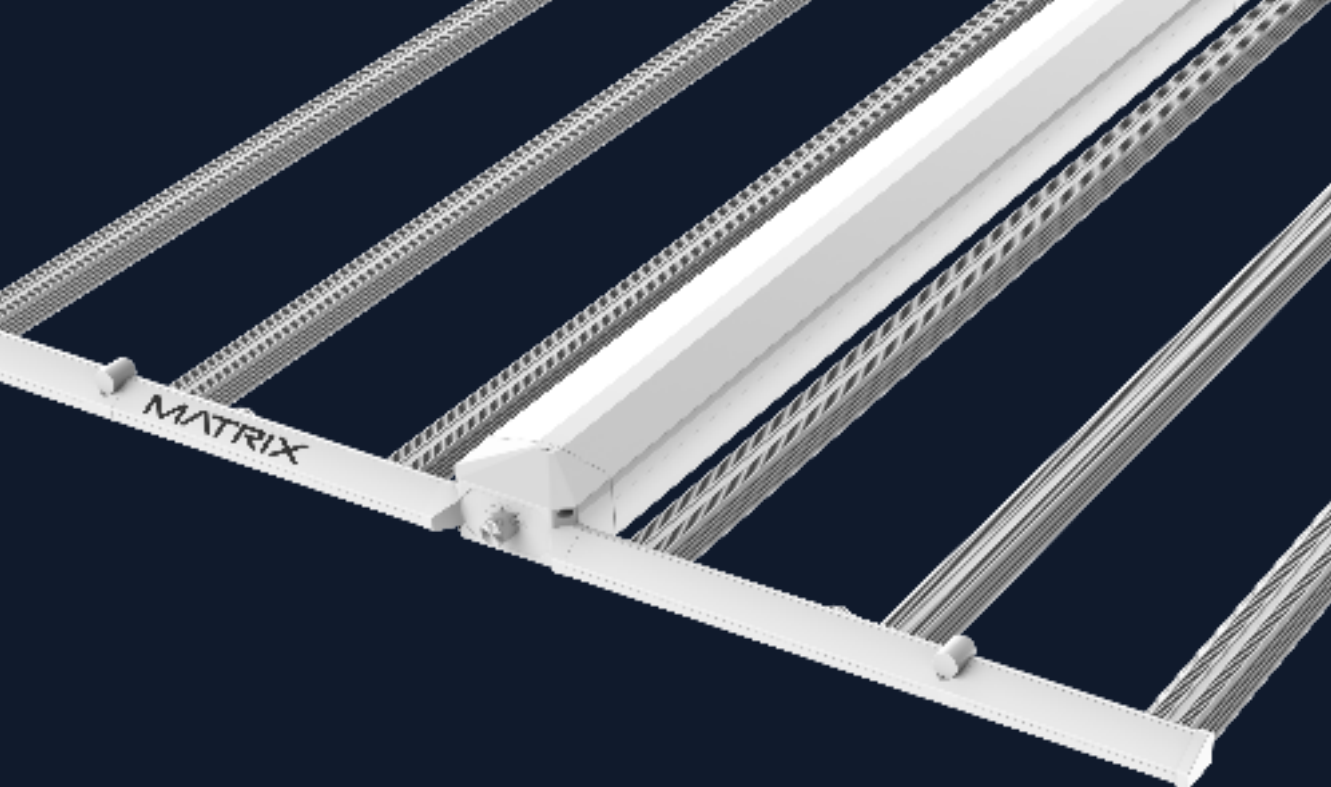
Product Specs

Model	M6
Input Power	645W
Input Voltage	120V-277V
PPF	1935μmol/s
PPE	3.0μmol/J
Frequency	50/60Hz
Dimming	25% 40% 60% 80% 100% EXT/OFF
Size	43.8" x 48.0" x 2.5" 1112 x 1220 x 64mm
Warranty	5-year warranty
Certification	ETL/CE/UL8800/IP66/DLC

Model	M8
Input Power	860W
Input Voltage	120V-277V
PPF	2580μmol/s
PPE	3.0μmol/J
Frequency	50/60Hz
Dimming	25% 40% 60% 80% 100% EXT/OFF
Size	60.0" x 48.0" x 2.5" 1525 x 1220 x 64mm
Warranty	5-year warranty
Certification	ETL/CE/UL8800/IP66/DLC

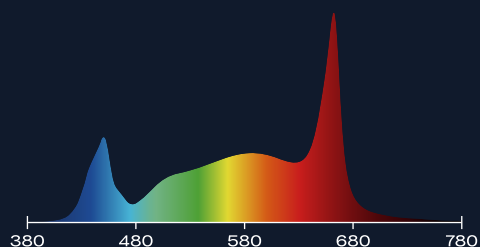
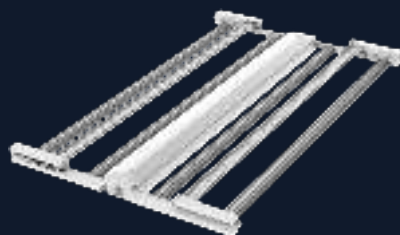
PPFD (At Height 12")





The Matrix M series, featuring efficient diodes, delivers exceptional light output with an impressive PPE of $3.0 \mu\text{mol/J}$. Its optimized spectrum, rich in red and blue light, accelerates plant growth, boosts yields, and enhances the production of key plant components.

Designed for ease of use, the Matrix M series includes dimming capabilities from 25% to 100%, controllable via the Matrix controller. With daisy-chaining support for connecting over 1,000 units and robust self-locking waterproof connectors, it ensures durability in challenging environments. Integrated with the Matrix intelligent control system, the M series simplifies installation, inspections, and operation, making it an ideal choice for efficient and effective horticultural lighting.



MATRIX M6 M8 Dyna

- **Maximum Crop Yield and Quality**

The Matrix Dyna series provides extremely high light intensity, ensuring optimal crop yield and quality.
 - **Simulate Natural Light to Optimize Plant Growth**

Features 4-channel spectrum tuning with independent far red and UV control, allowing for natural light cycles, including sunrise and sunset, tailored to various growth stages.
 - **Streamlined Installation Process**

The Matrix Dyna series lights include built-in drivers, streamlining the installation process and significantly reducing setup time.
- **Reduced Usage and Maintenance Costs**

Achieves superior efficacy with PPE of 3.0 $\mu\text{mol}/\text{J}$ and an extended lifetime of 54,000 hours.
 - **Power Stable Spectrum Tuning**

Features spectrum tuning without the need to change power, uses one single driver to generate multiple light channels and shifting power between channels. Do not waste every single watt.
 - **Versatile Applications**

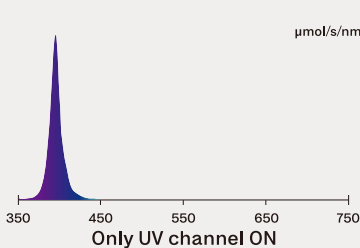
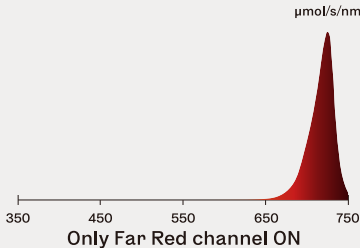
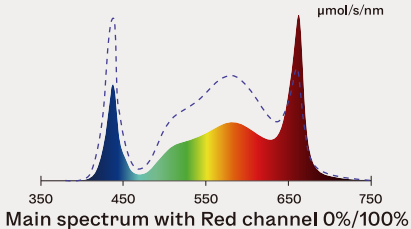
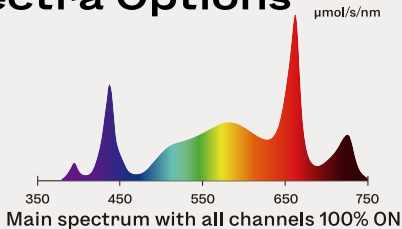
Suitable for a wide range of facilities, whether operated in a single or multi-layered system.

Product Specs

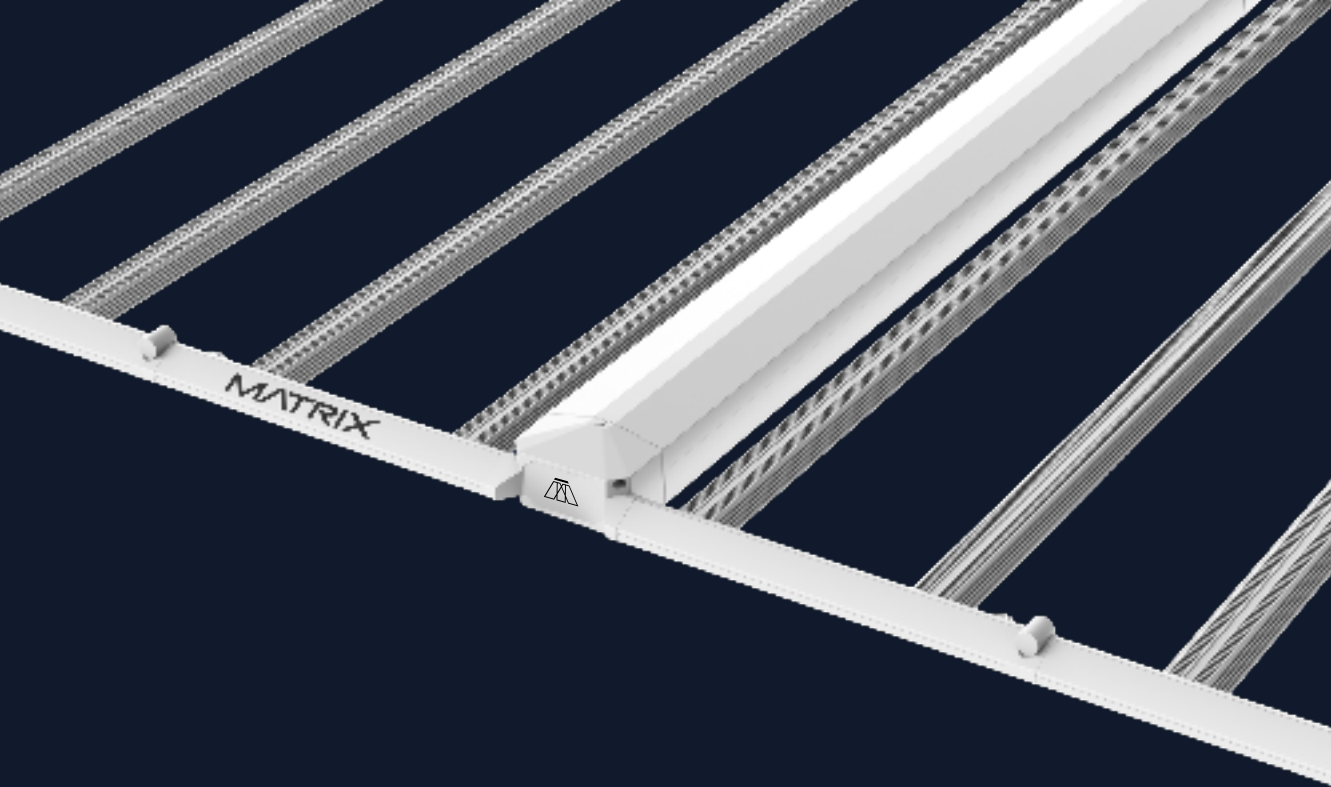
Model	M6 Dyna
Input Power	810W (Main680W+FR85W+UV45W)
Input Voltage	120V-277V
PPF	up to 2040 $\mu\text{mol}/\text{s}$
PPE	up to 3.0 $\mu\text{mol}/\text{J}$
Frequency	50/60Hz
Size	43.8" x 48.0" x 2.5" 1112 x 1220 x 64mm
Certification	ETL/CE/UL8800/IP66/DLC
Warranty	5-year warranty

Model	M8 Dyna
Input Power	1000W (Main840W+FR105W+UV55W)
Input Voltage	120V-277V
PPF	up to 2500 $\mu\text{mol}/\text{s}$
PPE	up to 3.0 $\mu\text{mol}/\text{J}$
Frequency	50/60Hz
Size	60.0" x 48.0" x 2.5" 1525 x 1220 x 64mm
Certification	ETL/CE/UL8800/IP66/DLC
Warranty	5-year warranty

Spectra Options

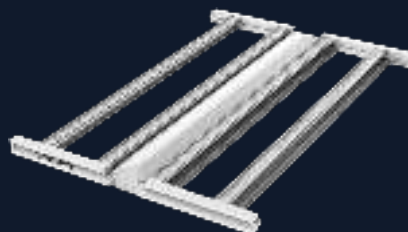


* Precise control over UV, Deep Red, White and Far Red enables growers to create any light recipes.
* The UV and Far Red channels can be independently adjusted from 25% to 100%.



Introducing the Matrix Dyna, a cutting-edge LED grow light engineered for precision and optimal plant growth. Featuring advanced spectrum-tuning capabilities with four customizable channels, including independent UV and far-red control, it allows growers to tailor lighting to each stage of development.

The Dyna utilizes an RS485 control system, ensuring seamless integration and precise adjustments. Its ability to simulate natural light cycles, such as sunrise and sunset, provides ideal growing conditions, making it a standout choice for modern horticultural environments.



MATRIX VEGA Dyna

● **Maximum Crop Yield and Quality**

The Matrix Vega Dyna delivers extremely high light intensity, ensuring exceptional crop yields and premium quality.

● **1:1 HPS Replacement with Uniform Light Distribution**

An ideal HPS upgrade, the Matrix Vega Dyna delivers 3.0 $\mu\text{mol}/\text{J}$ efficacy, a 54,000-hour lifespan, even light distribution, and energy savings.

● **Excellent Heat Dissipation**

A specially engineered structural design enhances heat dissipation efficiency, ensuring reliable performance and extended durability.

● **Simulate Natural Light to Optimize Plant Growth**

Featuring 4-channel spectrum tuning with independent far red and UV control, the Matrix Vega replicates natural light cycles, optimizing lighting for all growth stages.

● **Power Stable Spectrum Tuning**

Features spectrum tuning without the need to change power, uses one single driver to generate multiple light channels and shifting power between channels. Do not waste every single watt.

● **Versatile Applications**

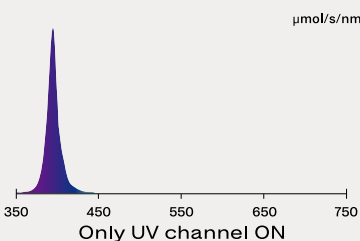
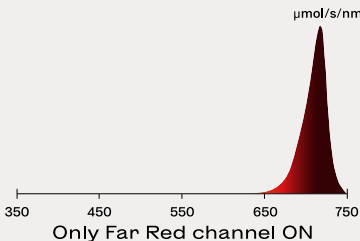
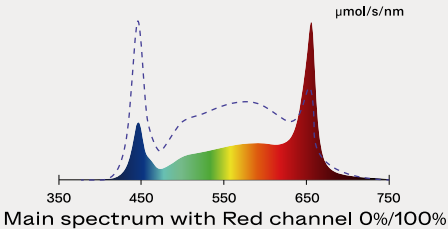
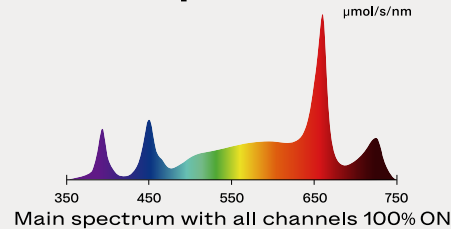
Designed to excel in a variety of growing environments, the Matrix Vega Dyna is perfect for indoor facilities and greenhouses alike.

Product Specs

Model	Vega 1000W Dyna			
Input Power	1000W (WR840W+FR 105W+UV 55W)			
Input Voltage	120V	208V	240V	277V
Input Current	8.33A	4.82A	4.16A	3.61A
Frequency	50/60Hz			
IP Rating	IP66			
Thermal Management	Passive			

PPF	2500 $\mu\text{mol}/\text{s}$
PPE	3.0 $\mu\text{mol}/\text{J}$
Dimming	25% - 100% /OFF
Warranty	5-year warranty
Size	26.9" x 12.5" x 3.2" 684 x 318 x 82.2 mm
Weight	34.2lbs 15.5kg
Certificate	ETL/TISI/CE/DLC/UL8800

Spectra Options

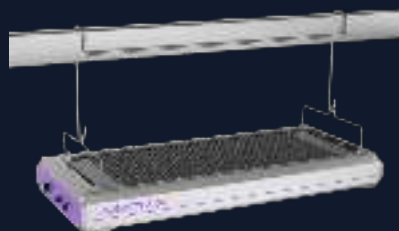
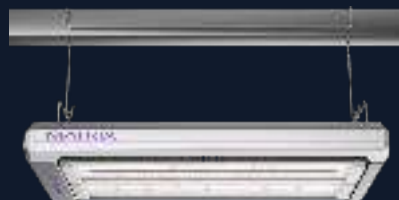


* Precise control over UV, Deep Red, White and Far Red enables growers to create any light recipes.
* The UV and Far Red channels can be independently adjusted from 25% to 100%.



Introducing the Matrix Vega Dyna, a high-performance top light designed to maximize crop yield and quality. Featuring advanced 4-channel spectrum tuning with independent control of far red and UV light, it allows growers to simulate natural light cycles like sunrise and sunset, tailoring lighting to every stage of plant growth for optimal results.

Versatile and efficient, the Matrix Vega Dyna is ideal for both indoor facilities and greenhouses. Backed by a 5-year warranty, it combines innovation and reliability to meet the demands of professional growers.



MATRIX DE 1000W

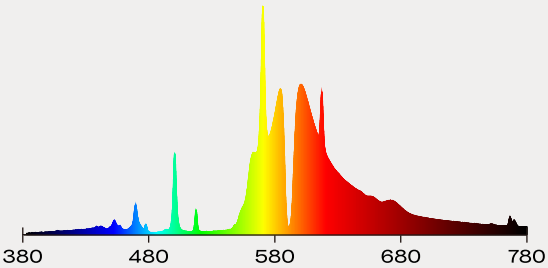
- **Designed for Horticulture**
Ideal for indoor growing and greenhouses, this fixture supports optimal plant development and enhances environmental control when paired with LED grow lights.
 - **Easy Control**
Features on-fixture step-dimming from 50% to 115% across six levels, with additional support for external 0-10V control.
- **Extreme Performance**
Delivers high light output with over 98% premium reflective aluminum for maximum efficiency.
 - **Long-Term Guarantee**
Backed by a 3-year warranty, providing reliable performance and peace of mind.

Product Specs

Model	DE 1000W
Lamp	Double Ended HPS Lamp
Input Voltage	120-240Vac, 208-277Vac
Input Current	9.3A/4.6A, 5.1A/3.85A
Input Power	1085W/1055W, 1060W/1045W
Power Factor	>0.99
THD	<10%

Frequency	50/60Hz
PPF	2200 µmol/s
PPE	2.1 µmol/J
Dimming	600/660/750/825/1000/1150W or EXT (0-10V)
Weight	7.5Kg/16.5lbs
Dimensions	25" x 14" x 5.2" 637 x 356 x 132 mm
Certificate	ETL/CE

Spectrum





Introducing the Matrix DE 1000W, a high-performance double-ended HPS fixture designed for professional horticulture.

Ideal for indoor growing and greenhouses, it features over 98% highly reflective aluminum for exceptional light output.

With flexible control options and reliable performance, the Matrix DE 1000W is built to support optimal growth across all stages.



MATRIX LTL 200W

- **Efficient Performance**

Matrix LTL 200W boasts exceptional efficiency with a PPE of 3.2 $\mu\text{mol}/\text{J}$, ensuring optimal energy utilization for improved plant growth.
 - **Scalable Design**

Features a user-friendly and scalable design, allowing quick and straightforward expansion of your lighting setup through daisy-chaining.
 - **Shadow-Free Illumination**

Linear configuration minimizes shadows in the greenhouse, providing uniform light distribution and eliminating potential growth disparities caused by shading.
- **Rich Red Light Spectrum**

Delivers an optimized spectrum emphasizing rich red light, carefully calibrated to promote vigorous growth and plant health during the vegetative stage.
 - **Seamless Control**

0-10V controller allows batch control of dimming and on/off functions across multiple lights for precision management.
 - **Long-Term Guarantee**

Ensure quality and performance with our comprehensive 5-year warranty.

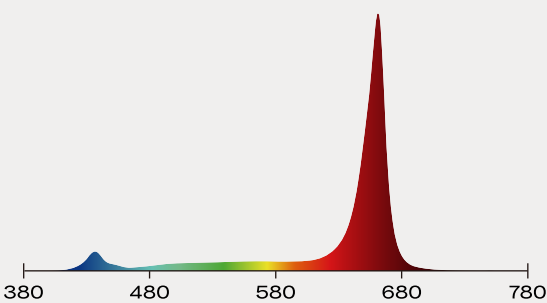
Product Specs

Model	LTL 200W				PPF	640 $\mu\text{mol}/\text{s}$
Input Power	200W				PPE	3.2 $\mu\text{mol}/\text{J}$
Input Voltage	120V	208V	240V	277V	Dimming	40%-100% with Matrix Controller
Input Current	1.67A	0.96A	0.84A	0.73A	Warranty	5-year warranty
Max. # of lights connected	8	15	17	20	Size	48.7" x 2.4" x 2.8" 1237 x 60 x 70mm
Frequency	50/60Hz				Weight	13.9lbs 6.3kg
Thermal Management	Passive				Certification	ETL/CE/UL8800/DLC/IP66

Contents

- Wire Hangers (2PCS)
- Eyebolts (2PCS)
- Hex Head Bolts (2PCS)
- Instruction Manual

Spectrum

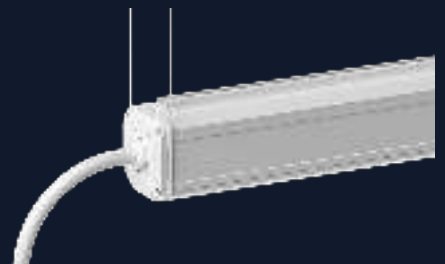




At Matrix, we recognize the importance of ensuring optimal lighting conditions for plants during their vegetative stage. That is why we are proud to present our state-of-the-art linear LED grow light, the Matrix LTL 200W, meticulously designed to deliver unparalleled performance and reliability.

Featuring top-tier Samsung & Osram diodes and strategically selected wavelengths, the Matrix LTL 200W stimulates robust foliar growth and sturdy root development.

With its daisy chain capabilities for simplified installation and user-friendly 0-10V control, the Matrix LTL 200W provides a sophisticated solution to meet the specific demands of the vegetative growth stage.



MATRIX CB 18W

● **High Efficiency**

Offers improved energy efficiency compared to traditional T5 fluorescent lights.

● **Rich Blue Light Spectrum**

Matrix CB 18W delivers a broad spectrum of light with a particular emphasis on the blue light spectrum, instrumental in promoting growth and development during the cloning stage.

● **IP66 Waterproof**

This level of protection provides safeguards against dust and water intrusion, extending lifespan and reliability.

● **Daisy Chain Capability**

Supports daisy chaining, allowing connection of up to 90 lighting strips at 277Vac.

● **Easy Installation**

The inclusion of hanging clips and zip tie slots simplifies the installation process, offering multiple mounting options to suit your specific needs.

● **Long-Term Guarantee**

We stand behind our products with a 5-year warranty, offering our customers peace of mind.

Product Specs

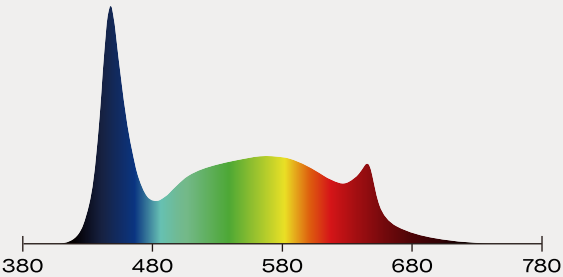
Model	CB 18W		
Input Power	18W		
Input Voltage	120V	240V	277V
Input Current	0.15A	0.075A	0.065A
Max. # of lights connected	40	80	90
Frequency	50/60Hz		

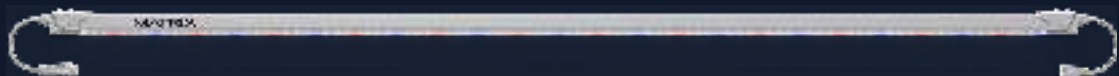
CCT	9000K
Thermal Management	Passive
Lifespan	Q90: >54,000hrs
Warranty	5-year warranty
Size	44.09" x 1.14" x 1.46" 1120 x 29 x 37mm
Certification	ETL/CE/UL8800/IP66

Contents

- LED Light (2PCS)
- Power Cord (1PC)
- Mounting Clip (4PCS)
- Plastics Tie (4PCS)
- End Cap (1PC)

Spectrum





The Matrix CB 18W represents a significant leap in horticultural lighting technology, outperforming traditional T5 fluorescent lights by a substantial margin.

Specifically engineered for the cloning stage, these lights offer a full spectrum with an abundance of rich blue light, precisely tailored to foster optimal conditions for successful cloning.

Furthermore, installation has been simplified with the convenience of daisy chaining, and we offer the security of a comprehensive five-year warranty.



MASTER YOUR GROW

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