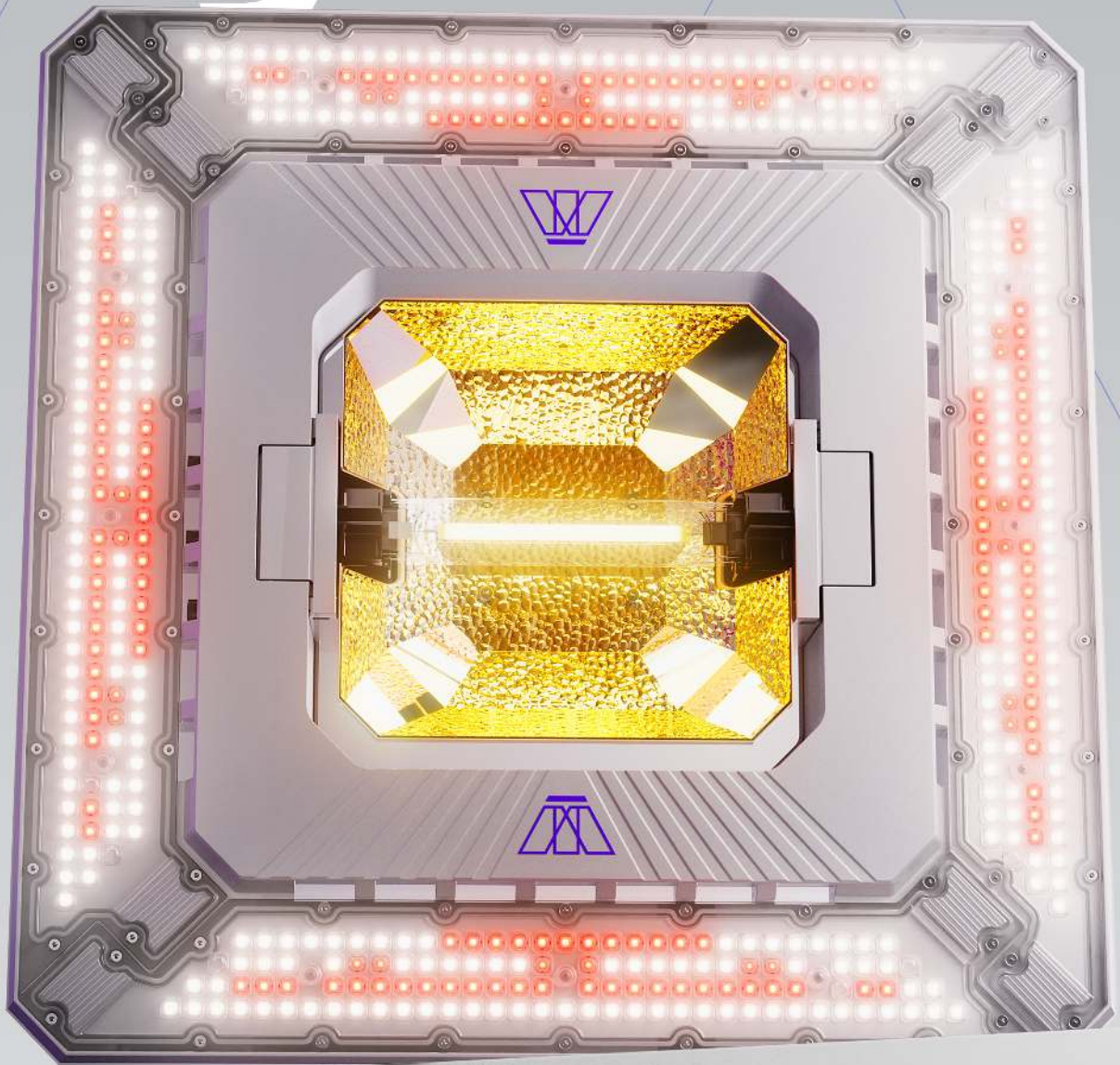




Hybrid



The World's First True HPS + LED Hybrid Grow Light



Harness the Sun Indoors



Uniform Light and Heat Distribution

Checkerboard
INSPIRED.

Matrix
PERFECTED.



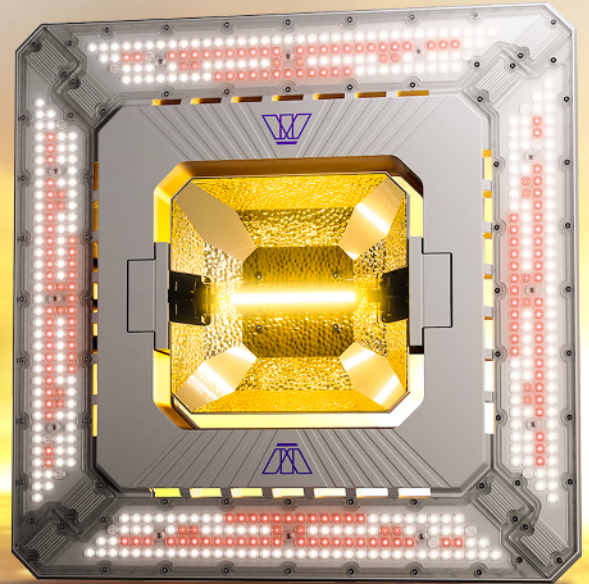
Optimized Leaf VPD and Flower Quality



Independent Tri-Channel Control

HPS + LED Engineered to Work Together

A breakthrough blend of HPS and LED technologies combined into one low profile fixture that brings the power of the sun indoors. Simulating the sun, the warm spectrum of HPS enhances flowering, while LED's targeted wavelengths boost structure, density, and flavor compounds — together they replicate a nature-like environment that creates richer terpenes and fuller flowers.



Perfect Climate, Superior Blooms

The combination of radiant heat from the HPS and Liquid Optics LED cooling technology work in harmony to create an ideal leaf VPD and microclimate, accelerating photosynthesis, transpiration and reducing humidity. This hyper-controlled climate effect enhances terpene and cannabinoid production while suppressing mold and mildew, resulting in higher quality flowers & yields.



Triple Uniformity Technology

LED micro-lenses and an integrated HPS optical distribution combine to provide uniform PPFD, spectrum and temperature across all canopies, ensuring maximum photosynthesis efficiency for healthier plants and higher yields.



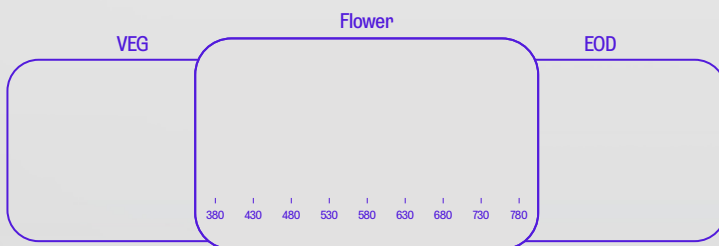
Uniform
PPFD

Uniform
Spectrum

Uniform
Temperature

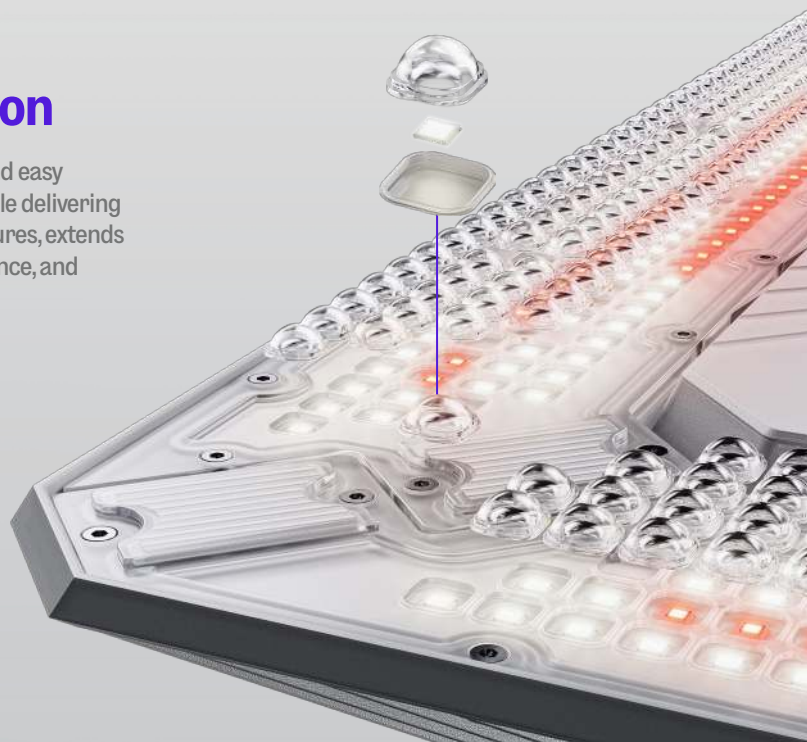
Smart Dynamic Control: Superior Performance

Independent tri-channel control for HPS, LED, and Far Red allows for seamless adjustment of spectrum and intensity. Easily customize your preferred spectrum i.e. LED-driven Veg to full-spectrum bloom or EOD (End of Day) Far Red application — optimizing energy use and plant performance with an accelerated growth cycle.



Sealed Build, Lasting Protection

The fully enclosed, Liquid Optics LED design ensures durability and easy maintenance. Its sealed system keeps out dust and moisture, while delivering a more precise cooling effect that stabilizes operating temperatures, extends diode life, and ensures long-term reliability, consistent performance, and cleaner operation in any growing environment.



Technical Specifications

Product Name	Matrix Hybrid 1000W		
Input Power	1000W (LED Main 560W + FR 40W + HPS 400W)		
Input Voltage	208 V	240 V	277 V
Input Current	5A	4.4 A	3.8 A
Frequency	50/60 Hz		
Power Factor	>95%		
Thermal Management	Passive		
Control	RS485		
Ambient Temp	-4~104°F (-20~40°C)		
Product Size	21.6"x21.6"x4.7" (550×550×119mm)		
Weight	32.5lbs/14.9kg		
Warranty	5-Year Fixture Warranty		
Certification	ETL/CE/TISI/DLC/FCC		

Product Name	DE HPS LAMP
Input Power	400 W
Operating Voltage	110 V
Color Temperature	2000 K
Dimensions	10.8" (L) x 1.3" (D)
Warranty	1 Year

Hybrid PPFD Map (At 4 Ft. Height)

650	727	742	748	750	712	654
663	742	781	790	789	714	667
699	773	823	831	830	750	709
707	764	820	830	821	752	699
678	766	809	810	807	728	690
657	718	789	783	774	701	650
640	714	729	735	737	699	641

LED-Only

244	272	308	305	296	248	234
242	276	351	349	344	259	245
234	285	375	364	346	255	214
225	276	365	359	343	262	230
248	276	361	366	344	254	227
245	276	349	342	335	267	235
244	272	308	305	296	259	234

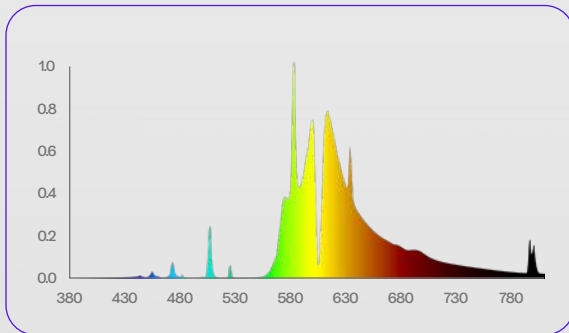
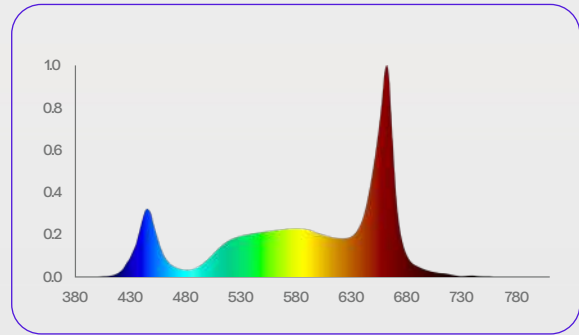
HPS-Only

895	1010	1044	1067	1047	971	889
906	1028	1132	1152	1135	983	921
919	1058	1180	1206	1169	1010	914
925	1060	1182	1207	1165	1022	940
927	1043	1171	1182	1145	992	927
903	1004	1138	1142	1106	978	894
885	996	1031	1054	1033	968	876

LED + HPS

LED Spectrum

A broad full-spectrum LED output typically used as the primary daily light source throughout the lighting cycle, supporting efficient photosynthesis, balanced plant morphology, and stable canopy development.

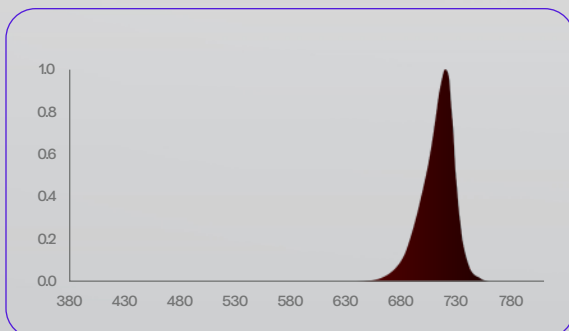
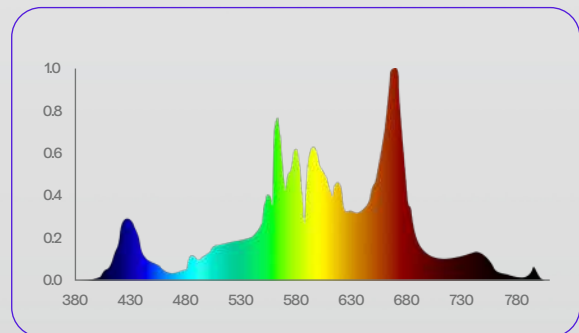


HPS Spectrum

A high-intensity discharge spectrum typically applied during flowering, contributing to biomass accumulation, canopy penetration, and radiant heat input.

Combined Spectrum (LED + HPS + FR)

A combined multi-source spectrum typically configured during flowering to deliver high photon density, broad spectral coverage, and integrated radiant heat, supporting a stable, sun-like canopy environment.



Far-Red Spectrum

A far-red output typically used during flowering to work alongside red light to improve photosynthetic efficiency (Emerson Effect), and applied at the end of the day (EOD) to support flowering initiation and canopy development.

MASTER YOUR GROW

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