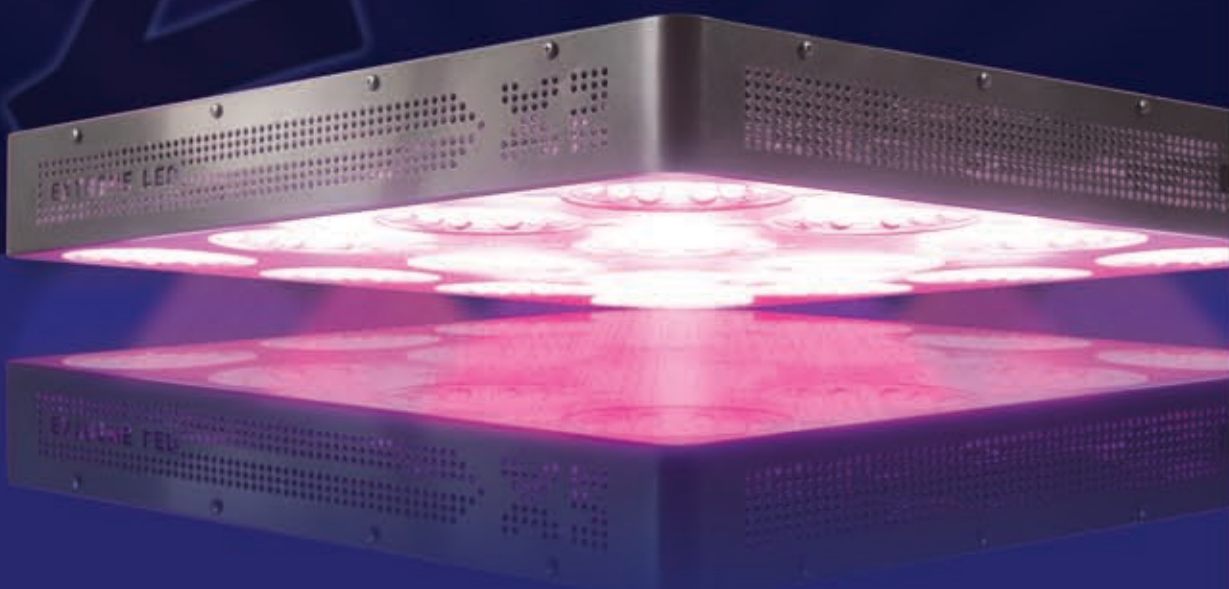


EXTREME LED Grow Lights



The Original Innovators of LED Grow Lights

The Extreme2 (X2) series LED Grow Lights by Hydro Grow are the most powerful horticultural grow lights on the market. Featuring our patent pending Extreme Lens technology, the X2 lens provides 5.7 times the light output of a standard 90° lens. No other Grow Light on the market can rival the intensity of X2, including HPS! Our advanced spectrum provides lightning-fast growth from seed through flower giving way to monstrous fruits and huge yields. X2 is the perfect lighting solution for an 'extreme'ly vigorous and abundant indoor garden.

Exclusive to Hydro Grow is our custom-designed, copper core heat-sink. No other LED company can match our thermal management as our copper cores quickly transfer heat away from the LEDs and out through thin aluminum fins. Another new feature is our unique Power-Link function that allows you to connect multiple lights in a series for a clean, streamlined garden. The internal components of the lights are also modular, featuring easy clip-in/clip-out wiring harnesses for simple warranty repairs.

Backed by over 4 years of research, 3 US Patent applications, university & independent grow tests, we are proud to say that Hydro Grow has the best performing horticultural grow lights in the world.

www.HydroGrowLED.com • 661-654-9376 • sales@hydrogrowled.com

FREE shipping to 48 states • 90 Day Returns • 3 Year Warranty

X2 Features

- Extreme lens technology for 5.7x higher output
- Modular design allows for upgrades in the future
- Clip-in wiring design for easy self-help warranty repairs
- Copper core heatsinks for faster heat dissipation
- 6 foot power cords available in 110v, 220v and intl plugs
- Power-Link system connects multiple lights in a series
- Spectrum: 440nm, 479m, 525nm, 640nm, 660nm, 740nm
- LED manufacturers: SemiLED, Bridgelux, Epistar
- Convenient On/Off switches
- FREE industrial strength ratchet hanging system
- Full 3-year warranty



A Closer Look at EXTREME LED GROW LIGHTS

Power-Link™ system connects multiple lights in series for streamlined use.

Heavy Duty power supply straps reduce movement during transportation.

High CFM, 120mm dual ball-bearing fans for superior cooling and ultra long LED lifespan.

Intelligent modular design keeps warranty issues isolated and makes future parts upgrades a breeze.

New X2 casing is slimmer and lighter than previous models. Trademark logos are incorporated as design elements to hinder confusion with counterfeiters.

Interested in learning more about Hydro Grow's LED Grow Light advancing technology?

***** www.hydrogrowled.com/Led-Basics-W6.aspx



Engineering at its Finest

Hydro Grow engineers all technologies and components in the USA

336X - PRO LED Grow Light

189X - PRO LED Grow Light

168X - PRO LED Grow Light

126X - PRO LED Grow Light

84X - PRO LED Grow Light

21X - PRO LED Grow Light

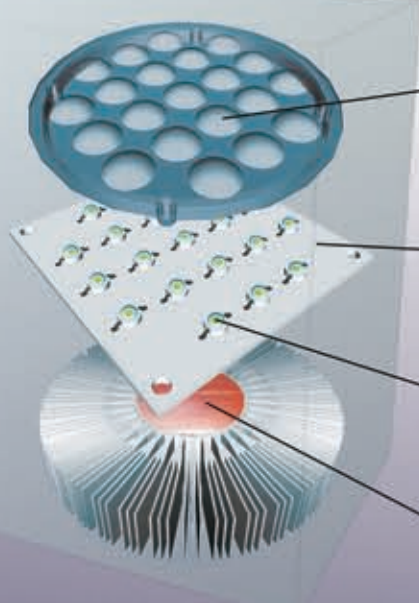
	336X - PRO LED Grow Light	189X - PRO LED Grow Light	168X - PRO LED Grow Light	126X - PRO LED Grow Light	84X - PRO LED Grow Light	21X - PRO LED Grow Light
Power draw	520W	305W	270W	200W	130W	36W
LED quantity	336 x 3w LEDs	189 x 3w LEDs	168 x 3w LEDs	126 x 3w LEDs	84 x 3w LEDs	21 x 3w LEDs
Input Voltage	220v / 110v	220v / 110v	220v / 110v	220v / 110v	220v / 110v	220v / 110v
Amperage	2.4 - 4.7A	1.4 - 2.8A	1.2 - 2.4A	.9 - 1.8A	.6 - 1.2A	.16 - .33A
Operating Temp	85 - 105° F	90 - 110° F	85 - 105° F	90 - 110° F	95 - 115° F	95 - 115° F
HID (PAR) Equivalent	1000w HID/MH	750w HID/MH	400w HID/MH	600w HID/MH	400w HID/MH	150w HID/MH
Coverage Area	48" x 48" @ 24" high	36" x 36" @ 24" high	18" x 60" @ 24" high	24" x 36" @ 24" high	24" x 24" @ 24" high	12" x 12" @ 24" high
Light Dimensions	23.5" x 23.5" x 3"	17.5" x 17.5" x 3"	6" x 47.5" x 3"	11.75" x 17.5" x 3"	11.5" x 11.5" x 3"	5.24" (D) x 4.5" (H)
Weight	28.7lbs	16.9lbs	16lbs	11.3lbs	7.7lbs	2.3lbs

	336X LED Grow Light	189X LED Grow Light	168X LED Grow Light	126X LED Grow Light	84X LED Grow Light	
Power draw	320W	180W	160W	120W	80W	
LED quantity	336 x 1w LEDs	189 x 1w LEDs	168 x 1w LEDs	126 x 1w LEDs	84 x 1w LEDs	
Input Voltage	220v / 110v	220v / 110v	220v / 110v	220v / 110v	220v / 110v	
Amperage	1.5 - 2.9A	.8 - 1.6A	.8 - 1.5A	.6 - 1.1A	.4 - .7A	
Operating Temp	80 - 100° F	85 - 105° F	80 - 100° F	85 - 105° F	80 - 100° F	
HID (PAR) Equivalent	600w HID/MH	600w HID/MH	250w HID/MH	400w HID/MH	250w HID/MH	
Coverage Area	48" x 48" @ 24" high	36" x 36" @ 24" high	18" x 60" @ 24" high	24" x 36" @ 24" high	24" x 24" @ 24" high	
Light Dimensions	23.5" x 23.5" x 3"	17.5" x 17.5" x 3"	6" x 47.5" x 3"	11.75" x 17.5" x 3"	11.5" x 11.5" x 3"	
Weight	27.6lbs	16lbs	15.3lbs	10.9lbs	7.4lbs	

ANATOMY OF A Light Engine

Our patent pending modular Light Engine is the cornerstone of our innovative LED grow lights. Each Light Engine operates as an independent grow light with it's own PCB, 21 LEDs, a custom heatsink, and our exclusive X-lens for enhanced penetration and coverage.

A sign that you are a true leader of innovation is that others line up to copy your achievements, and while many have attempted to re-create our light engine, as similar as they look don't be fooled because they will never perform like the original.



Optics grade Extreme (X) Lens made from PMMA acrylic. X2 lens technology amplifies light output by 569% compared to standard 90° lenses.

Modular PCBs (Printed Circuit Boards) allow for future upgrades, isolated failures, zero downtime between repairs and easy warranties!

Top Quality LEDs from SemiLED, Bridgelux and Epistar.

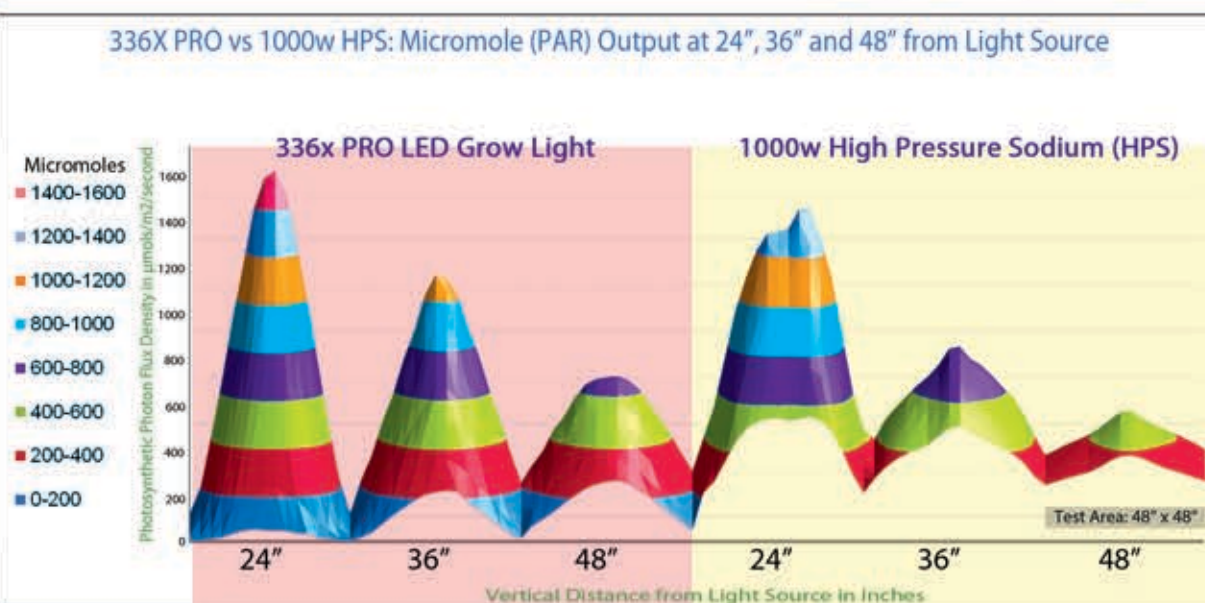
Copper core inserts transfer heat 41% more efficiently than aluminum, while custom thin-finned heatsinks dissipate heat quickly for longer lifespan and brighter output!

each light engine operates as an independent grow light
fully upgradable, easy warranties, genius.

Leading the Industry through

Research & Development

While growing with HID lights, plants that are more than 3ft tall have foliage at the bottom that begins to die off due to weak light penetration in dense canopies. This is because light is dispersed over a larger area as the distance from the source increases, and therefore light intensity (penetration) is weakened. This is especially true for light sources with large viewing angles or reflectors like HIDs.



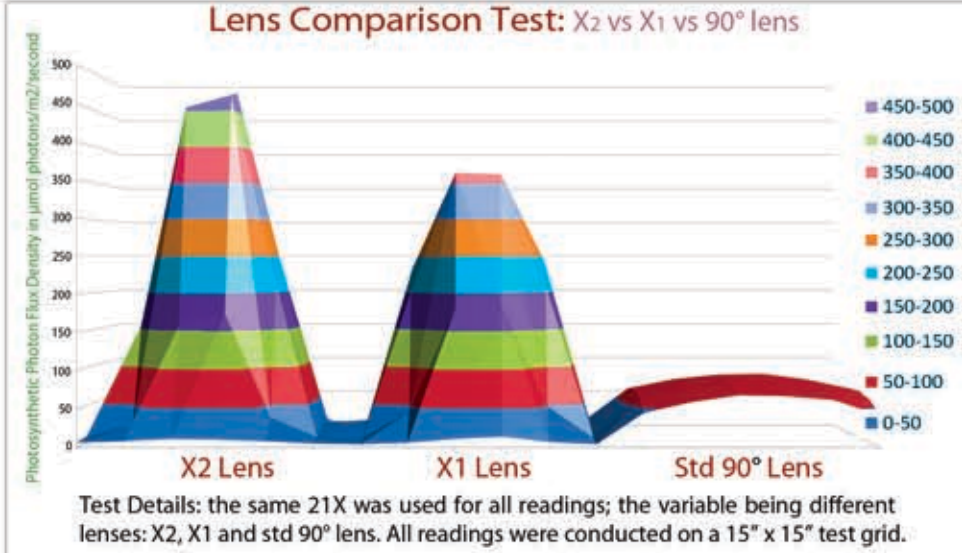
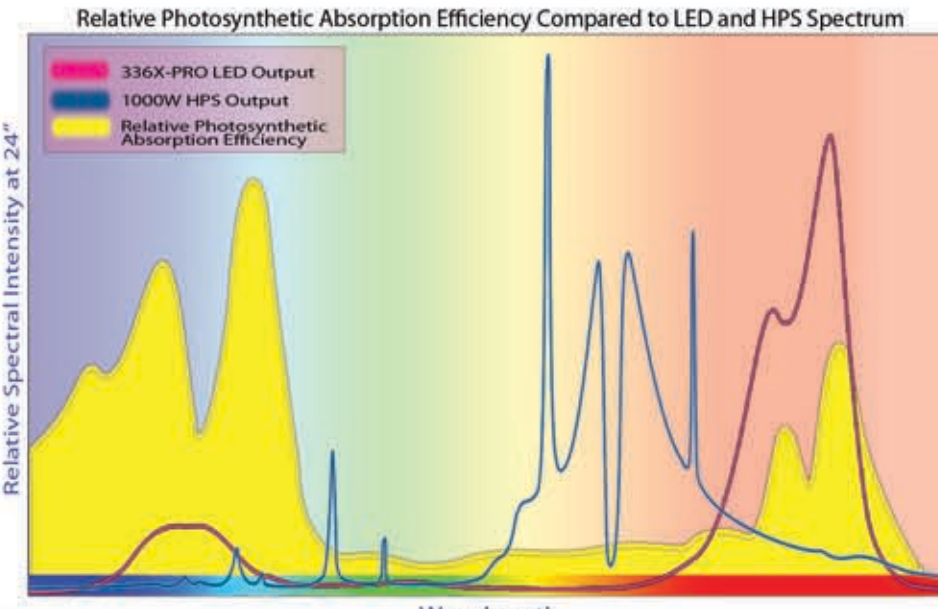
Relative Light Maintenance	336x 3w LEDs	1 x 1000w HPS bulb
Lighting Type	336 x 3w LEDs	1 x 1000w HPS bulb
Power draw	520w	1150w
Bulb change	every 6-12 years/50,000 hrs	every 6-12 months
Operating Temp	85-105° F	450 - 650° F
Cooling req?	No. Built - in cooling	Yes. AC or external cooling req.
Spectrum	6-band Formulated for plant growth	2700k white: optimized for human eyes
Usability	Plug - and - grow	Ballast, hood and cooling req.

The graph to the right demonstrates this concept as we compare the PAR (PPFD) output between HPS and Hydro Grow's X2 LED technology over several distances. As is shown in the graph, the HPS loses it's light intensity dramatically over a distance while Hydro Grow's patent pending X2 lens retains it's light intensity. In fact, at 48" the 336X-PRO delivers similar PAR output as the 1000w HPS at 36" while covering the same 4x4 area! Better yet the 336X-PRO consumes 55% less energy than the HPS, requiring little to no AC needs (or other cooling accessories) and absolutely no routine maintenance (bulb changes).

The HPS loses it's light intensity dramatically over a distance while Hydro Grow's X2 lens retains it's intensity

With our quantum balanced spectrum, you are guaranteed to achieve record-breaking yields all year long!

The entire visible spectrum (400nm-700nm) is utilized during photosynthesis, however chlorophyll absorbs light most efficiently at peaks in the blue (439nm & 469nm) and red (642nm & 667nm) regions. Any wavelengths outside of these peaks are absorbed with relatively low efficiency, meaning plants convert very little of the light energy into plant energy. The graph on the right demonstrates relative photosynthetic absorption efficiency compared to the spectral output of Hydro Grow's 336X-PRO and a 1000W HPS. Our quantum balanced 6-wavelength spectrum was formulated specifically for plant growth and therefore the output matches all chlorophyll absorption peaks, whereas HPS does not. With a spectrum this advanced, you are guaranteed to achieve record-breaking yields, tight internodes and huge fruits all year long!



The Genius of the Hydro Grow X-Lens

About Hydro Grow

Hydro Grow is a science based LED company specializing in research, development and marketing of professional LED lights. Since the inception of our company in 2007, we have single-handedly changed the LED grow light industry with our complex spectral ratios, leaf-penetrating lens technologies, cutting edge grow light designs, side-by-side light comparison tests, and our full disclosure marketing strategies. We started out as a LED grow light company, but are expanding our influence in the aquarium and commercial lighting industry. With continuous research and development in our US and overseas offices, we strive to remain the industry leaders of LED lights.

In the three years that Hydro Grow has sold LED Grow Lights, we have become recognized world-wide for our superior performance and unprecedented product quality. All of the claims and information we post are backed by scientific research and data, as we believe honesty is the only policy in marketing. To date, we have supplied everyone from home gardeners to hydro stores, commercial greenhouses, schools, universities, biotech companies and government agencies around the world. Our mission is to create the most innovative products, made with the finest components to ensure total customer satisfaction. When you buy a Hydro Grow light you can rest assured that you have the best indoor lighting equipment the horticultural industry can offer, secured by a full 3-year warranty.

In the years to come Hydro Grow will continue to offer the best customer service, top quality products and reasonable prices to meet our customers' demands.



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