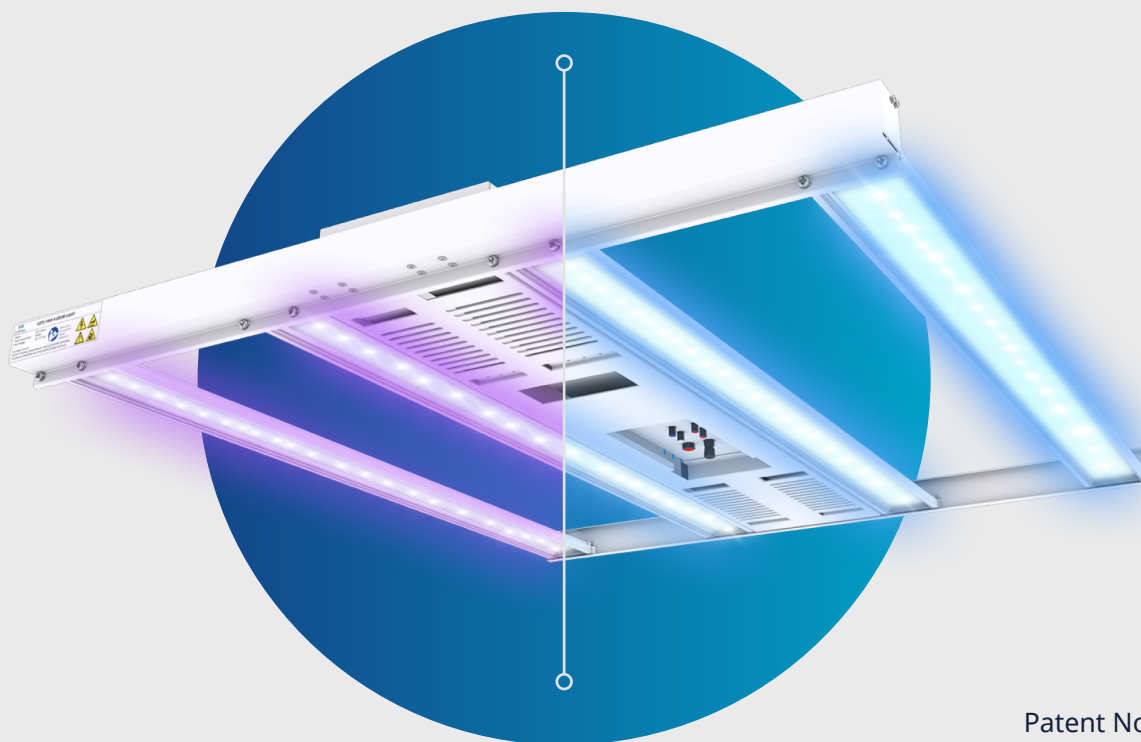


# AGT640

SPEC SHEET

The **AGT640** is a patented Liquid Cooled and Spectrum Control LED grow light built to increase yield and improve overall quality for commercial cannabis cultivation. Powerful, efficient and customizable to meet your specific needs.



## Designed for Multi-Tier Grow Rooms Sole-Source Horticulture Light



Photon Flux (PPF)



1,574  $\mu\text{mol/s}$

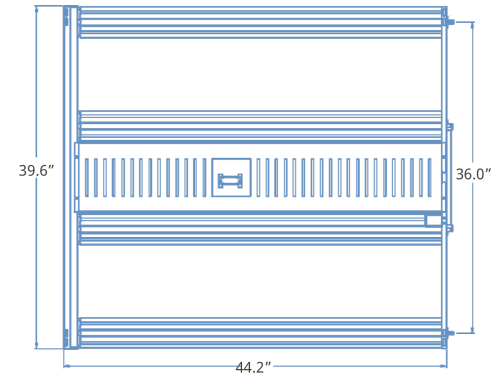
\*Includes Extended Range  
700-800 nm

Total Coverage



4' x 4'

Top View



Side View



### Dimensions

**Width:** 39.6" (1,006mm) **Height:** 3.4" (86mm)

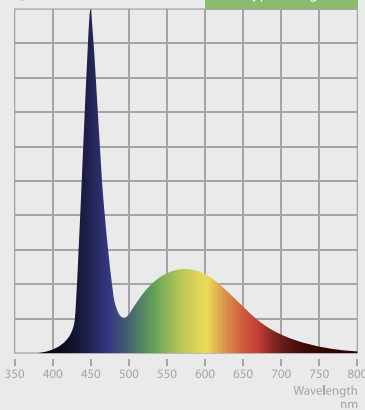
**Length:** 44.2" (1,123mm) **Weight:** 56lbs (25.4kg)

## Spectral Distribution

The light spectrum range is optimized for cannabis cultivation, 400nm - 800nm. Captures the "Emerson Effect" - simultaneously giving plants both red and far-red spectrum to increase yield and quality.

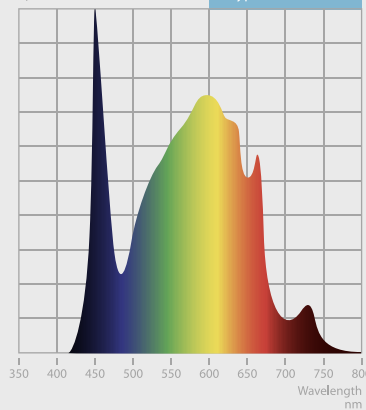
Spectral Distribution Chart

Typical Veg



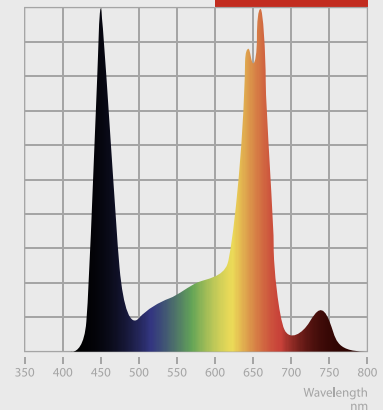
Spectral Distribution Chart

Typical Transition



Spectral Distribution Chart

Typical Flower



### Infinite Spectrum Control

Enables customization of light spectrum and intensity, allowing grower to create unique light recipes for specific genetics and stages of plant growth.



### Remove Light Waste Heat

Liquid Cooled LEDs removes up to 90% of wasted heat out of grow environment, stabilizing the room ambient temperature.

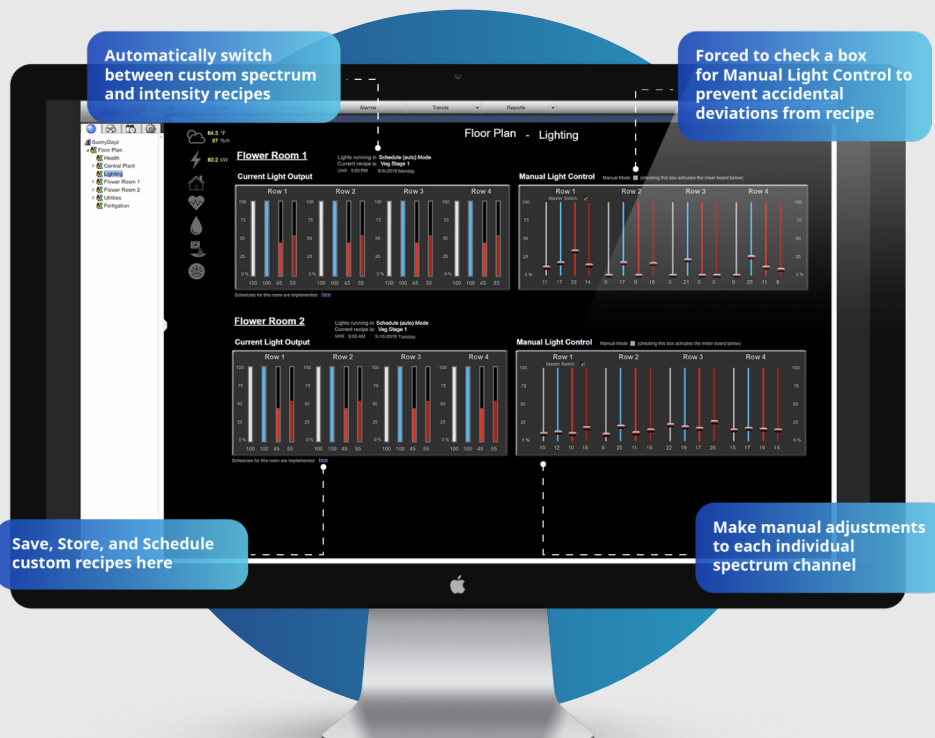
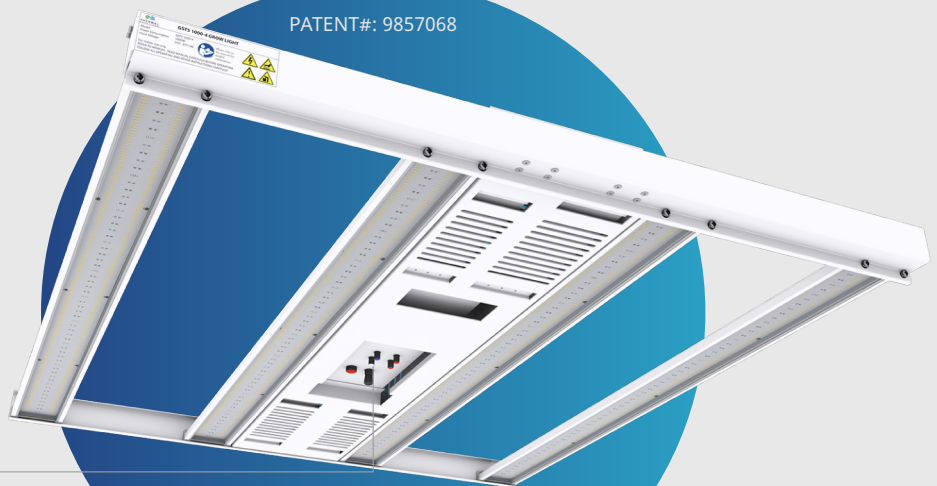
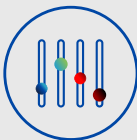


### Heat Reclamation

Excess waste heat from Liquid Cooled LEDs can be reclaimed & re-purposed to further improve overall system efficiency.

## MANUAL CONTROL

4 fully adjustable spectrum channels  
(White, Blue, Red, Orange)  
Spectrum (400nm – 800nm)



## SAAM CONTROL PLATFORM

Remotely control every light fixture  
in your facility: spectrum & intensity;  
light scheduling. Save, store, and  
easily reuse light recipes.

Each channel can be adjusted between 5% (minimum) to 100% (max)

#### AGT 640W GENERAL DATA

Unit Model	AGT 640
Power Consumption	60W – 650W
Current (Max)	5.4A @ 120VAC   2.7A @ 240VAC   2.3A @ 277VAC
PPE (400nm - 800nm)	2.32 $\mu\text{mol}/\text{j}$
PPE PAR (400nm - 700nm)	2.03 $\mu\text{mol}/\text{j}$
PPF (400nm - 800nm)	1,574
PPF (400nm - 700nm)	1,377
Control Protocol	DMX 512
Plugin Power	12VDC (20W Max)
Light Coverage Area	4' x 4'
Mounting Height (Min)	12" (From Canopy)
Cooling Media	Water + Corrosion Inhibitor
Target Flow Rate	.2 $\pm$ 0.05 GPM
Pressure Drop Req	8 PSI @ Room Level
Liquid Heat Rejection	~260 Watt (887 Btu/hr)
Operation Weight	56 lbs

#### AGT 640W SPECIFICATIONS

Efficiency	2.33 $\mu\text{mol}/\text{J}$
Light Spectrum	400nm - 780nm
Certifications	UL1598, UL8800, UL8750
Warranty	5 Year Standard Warranty
Communication	DMX (Adapts to all major control protocols)
Plug-in	12VDC, 20 Watt Max
Power	650W (Controllable 60W - 650W)
Voltage	120VAC - 277VAC
Ingress Protection	IP65 (Dust tight and waterproof)
Life Expectancy	150,000+ Hrs
Liquid Heat Rejection (max)	~260 Watt (887 Btu/hr)
Solution Type	Water & Propylene Glycol Mix
Self Cut-Off Inlet Temp	167°F(75°C)
Max. Operation Inlet Temp	120°F(48.78°C)
Min. Operation Inlet Temp	65°F(18.33°C)
Max Operation Ambient Temp	110°F(43.3°C)
Targeted Inlet Temp	90°F(32.2°C)

#### AGT 640W SPECTRUM SPECIFICATIONS

CONTROL DIALS	L.E.D.	PART NUMBER	DRIVER	PART NUMBER
White Dial	Cool White 5000K	STW8A12D-E3	MeanWell	HLG-240H-36B
White Dial	Warm White 2700K	STW8A12D-E3	MeanWell	HLG-240H-36B
Blue Dial	Blue 450nm	GD CSSRM2.14	MeanWell	HLG-100H-24B
Red Dial	Hyper Red 660nm	GH CSSRM3.24	MeanWell	HLG-150H-30B
Orange Dial	Far-Red 730nm	GF CS8PM2.24	MeanWell	HLG-150H-30B
Orange Dial	Red 630nm	GR CS8PM1.23	MeanWell	HLG-150H-30B

For more information or to set up a consultation  
with our experts, contact us today.

**(833) 488-GROW**

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