



BIOLED CANNABIS GROW
LIGHT SYSTEM

Breaking the boundaries of nature

Cannabis Indoor/Greenhouse Smart Light System

High-end | Innovative | Affordable
Heavy-duty | Light weight
Extreme power performance

IOT- Machine Learning
“Quantum Leap” Technology



OSRAM
LED TECHNOLOGY INCLUDED



BIOLED ADVANCED GROW
LIGHT SYSTEMS

BIOLED CLOUD
Machine Learning



BIOLED ENCODER
Din Type PLC & Wireless
Cloud Communicator
(Patents Pending)



RELIABLE POWER LINE
Data transfer trough
electricity lines to the
light system



CROSS PLATFORM

Secure Log-in, Remote Control, Programmable, Monitor* & Get support* from anywhere! using PC, Mobile and Tablet.



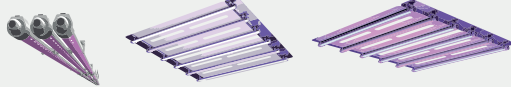
AGRO EXPERTS

Advisory and support team**



SENSORS

Light, Humidity, Temperature
VideoGrow Monitors
CO2, PH, O2



ROOTING VEGETATING FLOWERING

SYSTEM FEATURES

- Power line combined WIFI communication
- 4 Wavelength Channels
- Remote manageable by App or PC
- Cloud monitored 24/7 *
- Agro-Experts Advisory & Support team**
- IOT
- Machine Learning**
- Wireless Encoder: controls 4 wavelength channels
- Wireless Sensors such as: Light, Humidity, Temperature, Video, CO2 **

*Monthly Charge applies

**Coming Soon

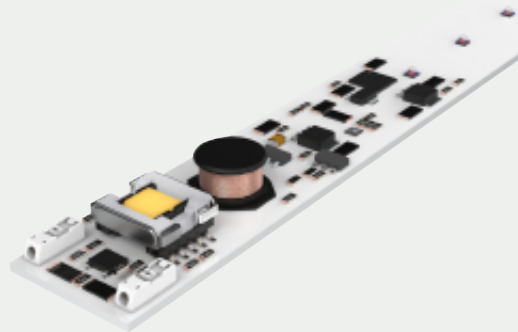
SYSTEM ADVANTAGES

- Maximizes income - Minimizes risks
- Farmer Friendly
- No infrastructure needed
- Extremely easy installation
- Improves quality
- Increases production
- Briefs growth cycle
- Accelerates biological process
- Saves energy, water and space
- Prevents weather risks
- No fumigation
- Online support *

BIOLED PROPRIETY EMBEDDED MICRO DRIVER DECODER AND LED PCB (Patent Pending)

Embedded Micro Driver in each single Light Bar
Each Light Bar communicates with BioLED Encoder
Extremely efficient $\eta > 95\%$, $PF > 0.98$, $THD < 12\%$
Life expectancy up to 100,000 hours
Heavy Duty Ceramic Capacitor
Auto Recovery on restart
Therman, current and voltage protection
Flicker-Free

The Micro Driver contains:
Programmable CPU
PLC Receiver Decoder
Backup Memory
Dimmer



BIOLED LIGHT BAR

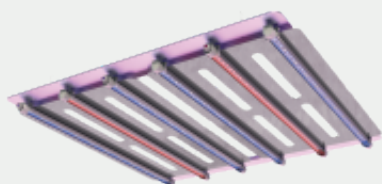
The Light Bar is a single module for any high power Cannabis Lamp that communicates with the BIOLED Encoder.

Power +/- 43W,
PPF > 125 $\mu\text{Mol}/\text{sec}$, $\eta > 2.98 \mu\text{Mol}/\text{W}$
Lightweight Polycarbonate Body
Designed for the most extreme environments
UL 94 V-0 Flame retardant
IK10 impact resistant
IP 67 Water and dust proof
Large variety of spectrum available for any crop
UV stabilized



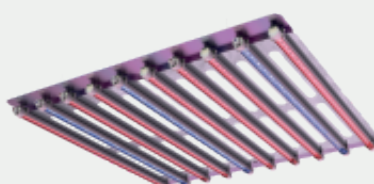
BIOLED VEG VEGETATING LAMP

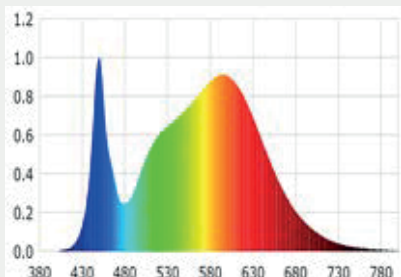
Photon Flux efficiency 2.98 $\mu\text{Mol}/\text{sec}/\text{W}$
Photonic Power: >450 $\mu\text{Mol}/\text{sec}$
Electric Power +/- 250W
Weight: +/- 14 Lbs.
Dimmable, Tunable, Adjustable Beam
High Efficiency Stainless Steel Reflector
Fast Connect and easy installation



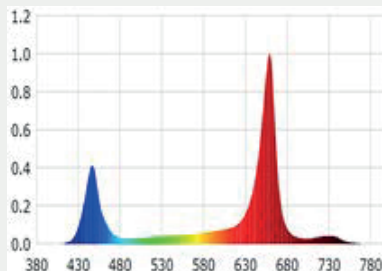
BIOLED FLW FLOWERING LAMP

Photon Flux efficiency 2.98 $\mu\text{Mol}/\text{sec}/\text{W}$
Photonic Power: >1000 $\mu\text{Mol}/\text{sec}$
Electric Power +/- 420W
Weight: +/- 18 Lbs.
Dimmable, Tunable, Adjustable Beam
High Efficiency Stainless Steel Reflector
Fast Connect and easy installation





"Rooting" Spectrum, PPF>200 nMol/sec



"Flowering" Spectrum, PPF>1000 nMol/sec

IOT AND MACHINE LEARNING

BIOLED Cannabis is taking steps towards the next level. Developing IOT and Machine-Learning Server to improve performance on BIOLED existing installations using Crowd Wisdom.

Data from greenhouses and indoor crops such as quality, growth rate and the data received by the IOT sensors is constantly monitored, analyzed and applied to the system. The Machine Learning Algorithm automatically modifies parameters such as spectrum, intensity and timing settings (as per the farmer choice).

OUR COMPANY

BIOLEDEco Light Systems (former ZubaVision) is a young high tech company known for its outstanding Led lighting products and is a world-leading player in the research, development, manufacture and implementation of advanced horticultural LED technologies. BIOLED, Led light systems are designated for industry, military and commercial applications. Its systems are high-end, innovative, with extreme efficiency and power performance, heavy-duty and yet lightweight and very easy install.

Today Bioled is focused on developing horticulture indoor/green-house smart lighting systems, which includes IoT control and management system and machine learning applications

BIOLED Eco Light Systems Ltd. is a High Tech company, well known for its outstanding lighting products. It became an innovative world player in the research, development, manufacture and implementing of horticultural LED technology.

BIOLED Eco Light Systems Ltd is Israel leading manufacturer of industrial, military and horticulture LED light systems, suitable for the most sever environmental applications.

