

FUREGREEN Leaf



Innovative Technology

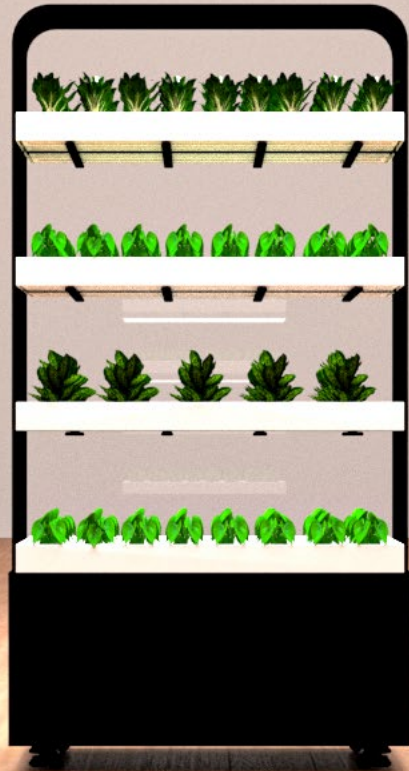
"The technology gives plants and people exactly what they want"



Wireless LED Vertical Farm
Anyone can do !

Wireless LED Design Concept

Now, you are a vertical farm expert



FUREGREEN **Leaf**

Wireless LED Grow Lighting

You can easily adjust the spectrum and intensity

Any Plants

Any crops can be grown

Easy control

Mobile control via Wi-Fi is possible

Movable Vertical Farm

Easily move to another location at any time

Easy management

Easy management with sustainability

plug & play



+option

PARUS

Wireless LED Vertical Farm
Anyone can do !

Leaf
FUREGREEN



Vertical farm technology that anyone can do



Grow white LED

The best LED for plants and people



Wireless LED

Control spectrum & Intensity



Hydroponic system

Automatic water supply adjustment



Wi-Fi control system

Wireless LED, water supply, UV sterilization



Steel frame

Eco-friendly Spray coating finishes



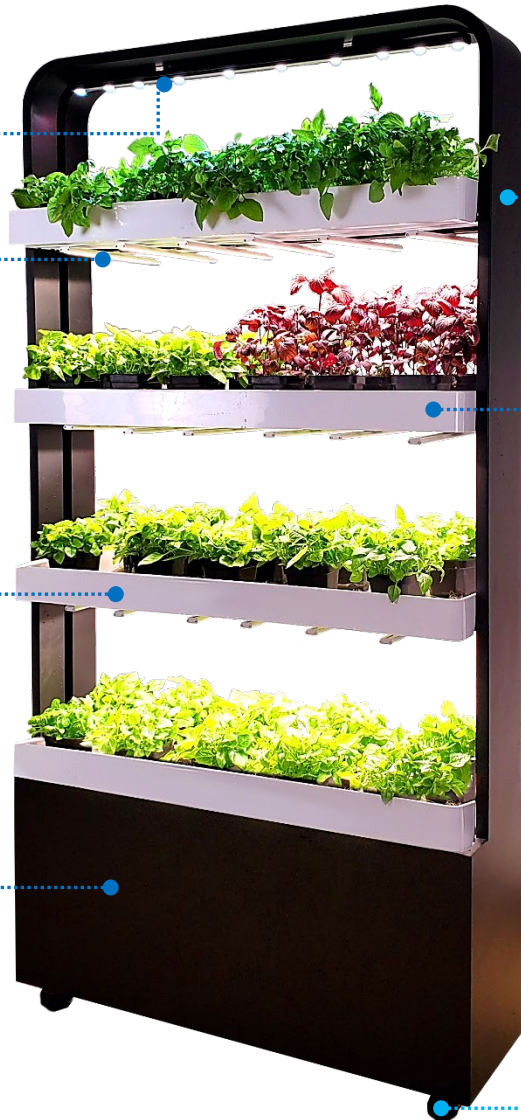
Double layer Plastic Tray

Various types/size pots available.



Movable wheel

Anyone can easily move



Wireless LED FUREGREEN Leaf



Movable

VERTICAL FARM - Product Features

*Anyone can easily operate a vertical farm.
It makes everything you think possible.
Now, you are an expert.*

Easy

Installation, Management, Application, Delivery

Simple Design

Anyone can easily use multi-layer.

Usable with any plants pot.

Cutting, Seedlings, Growing, Flowering ...

Easy installation with module.



Wireless LED

Control spectrum & Intensity



Double layer Plastic Tray

Various types/size pots available.



Hydroponic system

Automatic water supply adjustment



Steel frame

Eco-friendly finish



Movable wheel

Anyone can easily move



Wi-Fi control system

Wireless LED, water supply, UV sterilization



Wireless LED
Control spectrum & Intensity



Efficiency
95%

PPF/J
3.6

Control
Wi-Fi

Angle
140°

Leaf
FUREGREEN



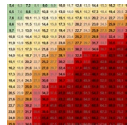
PARUS GROWLIGHT 4.0

Imagine you. Wireless LED makes it all possible

**SIMPLE
IS THE
BEST**

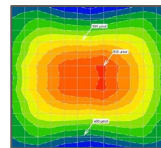
Simple is best!

The best technology should provide convenience to humans.
Now, you are a vertical farm expert.



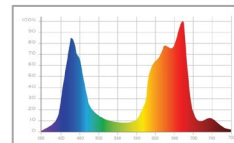
Super easy installation

Easy to install for anyone, no neat lines, safe



Easily adjust PPFD

Easily adjust spacing to control plant photosynthesis requirements



Easily adjust spectrum

Freely control the required spectrum





Wireless LED

Control spectrum & Intensity

Wireless LED intensity per layer

Each layer can adjust the growth intensity according to the type of crop.

100 μmol

2
Wireless LED

Tissue culture, Microgreens, Cutting plant
Cannabis clone



150 μmol

3
Wireless LED

Baby leaf, Lettuce, Ginseng, Orchid,
Seedling plants



200 μmol **Standard**

4
Wireless LED

Herbs, Basil, Coriander Cyclamen,
Arugula



250 μmol

5
Wireless LED

Cannabis Seedling, Bok choy, Dill



300 μmol

6
Wireless LED

Strawberry, Pepper



350 μmol

7
Wireless LED

Succulent plant



400 μmol

8
Wireless LED

Tomato



500 μmol

10
Wireless LED

Cannabis growing



800 μmol

10
Wireless LED
@100mm



Leaf
FUREGREEN



Wireless LED

Control spectrum & Intensity

Wireless LED intensity per layer

Each layer can adjust the growth intensity according to the type of crop.

Application photos by case



Leaf
FUREGREEN



Wireless LED

Control spectrum & Intensity

Wireless LED Spectrum per layer

You can easily adjust the spectrum yourself.

All you have to do is to choose the spectrum that a particular plant likes.



LED spectrum that anyone can adjust

Wireless LED **RBW**
12.5watt, 350mm

x12 included

RBW Spectrum

Wireless LED **Red**
12.5watt, 350mm
660nm

x1 included

Red Spectrum

Wireless LED **Blue**
12.5watt, 350mm
450nm

x1 included

Blue Spectrum

Wireless LED **White**
12.5watt, 350mm

Option

White Spectrum

Wireless LED **Green**
12.5watt, 350mm
550nm

Option

Green Spectrum

Wireless LED **RBS**
12.5watt, 350mm
660nm,80%+450nm,20%

Option

RBS Spectrum

Wireless LED **IR**
12.5watt, 350mm
730nm

Option

IR Spectrum

Wireless LED **UV**
12.5watt, 350mm
380nm

Option

UVA Spectrum



Leaf
FUREGREEN

Control
Wi-Fi

Wi-Fi control system

Wireless LED, water supply, UV sterilization



Anytime, anywhere can be managed.



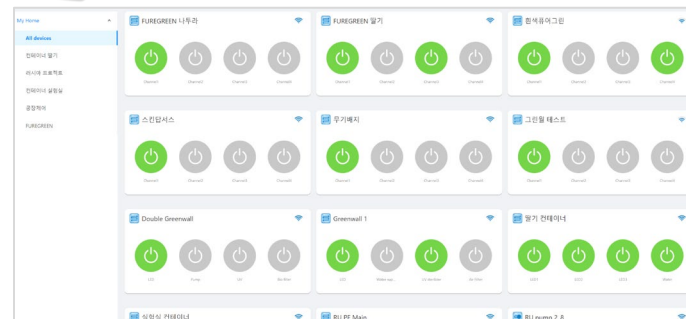
Wi-Fi Control 4ch

- Power On/Off
- Automation On/Off Schedule Timer
- LED, Water supply, UV sterilizer, Air fan

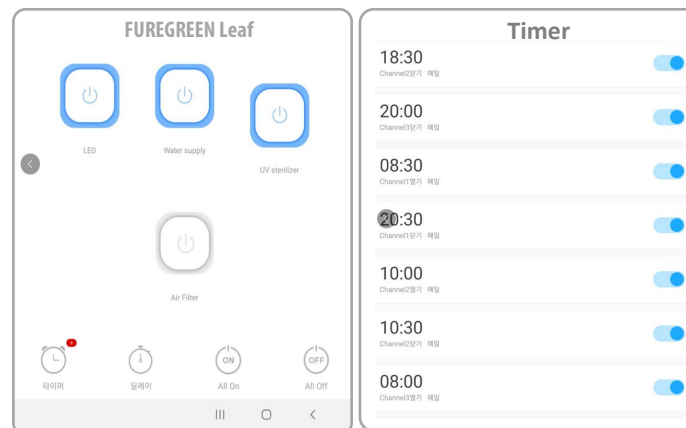
- Manual control
- Wi-Fi Camera (option)
- Alarm Motion



Computer web control



Mobile application control



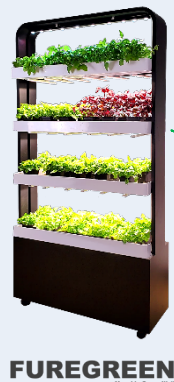
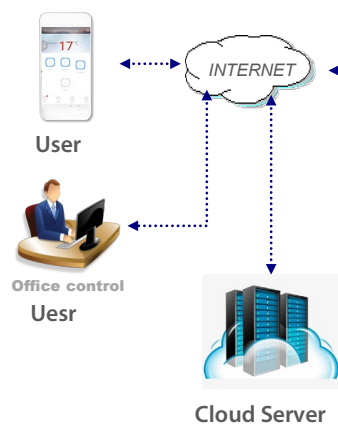
Leaf

FUREGREEN



Wi-Fi control system

Wireless LED, water supply, UV sterilization



LED



- WIFI automatic lighting control & manual control
- ON/OFF Automatic Switch
- "AI" Automation dimming control (option)
- On 08:00 ~ Off 20:00 (Standard)

Irrigation



- WIFI automatic water supply control & manual control
- ON/OFF Automatic Switch
- On 10:00 ~ Off 11:00 (Standard)

UV



- WIFI UV sterilization & O₂ control and manual control
- ON/OFF Automatic Switch
- On 09:00 ~ Off 11:00 (Standard)

Alarm



- Wi-Fi Alarm system (option)
- Real-time detection (no water, water overflow, no light, poor air quality, etc.)



Hydroponic system

Automatic water supply adjustment

Plants no longer die due to care issues.
Automated systems keep plants in best condition.

Hydroponic grow tray

PP material of hydroponic + Wicking culture method.

Automatic water supply valve

Automatic water supply by connecting with tap water pipe.

Water filter

Clean the water by filtering the pollutants in the water.

Water Pipe

Water supply and drainage water pipes are connected inside.

Water pump

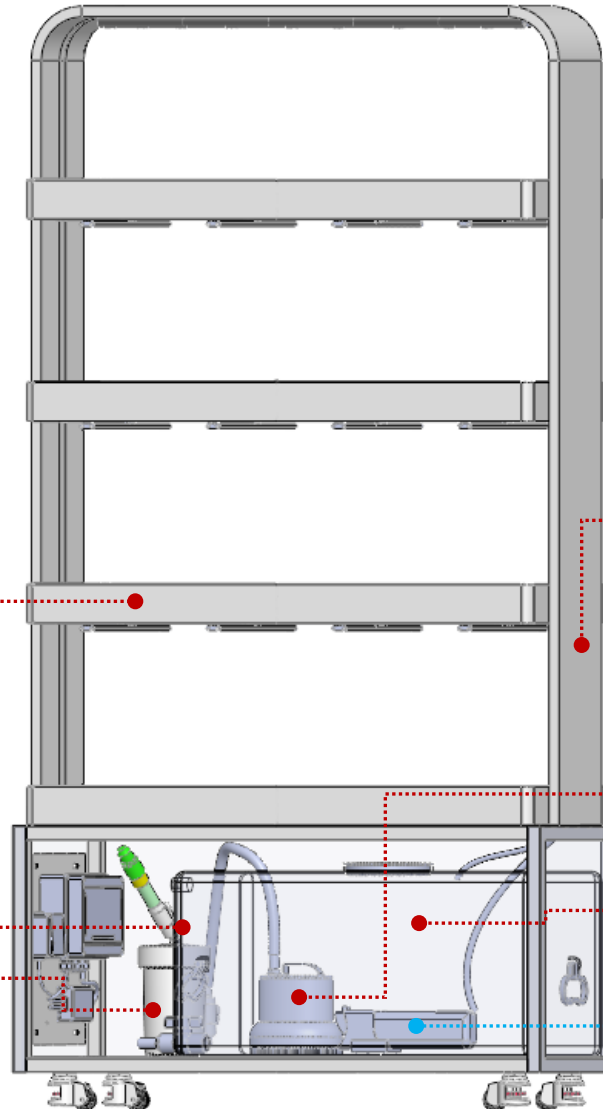
Inverter drive pump without noise and stable

Water tank

80liter sealed PE water tank.(Movable)

UV sterilizer + O₂ generator

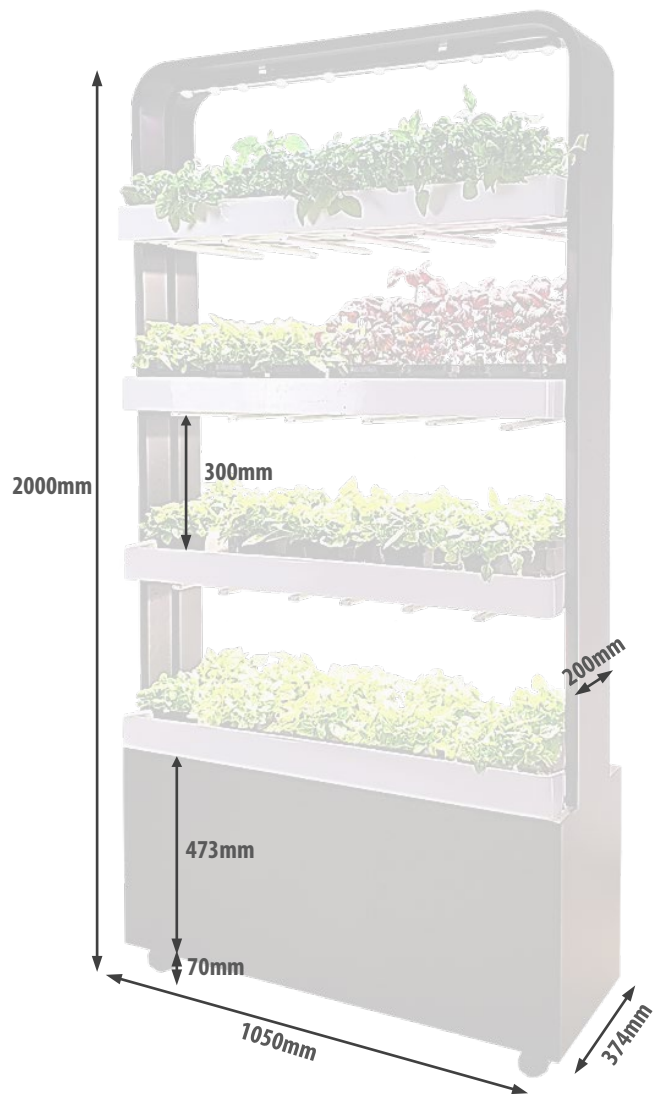
Circulate by sterilizing viruses and bacteria in water.



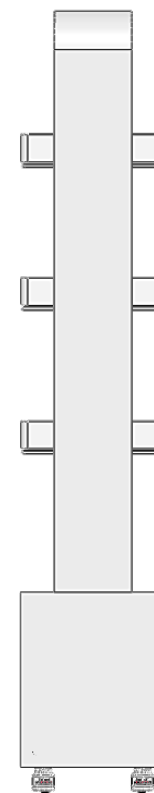
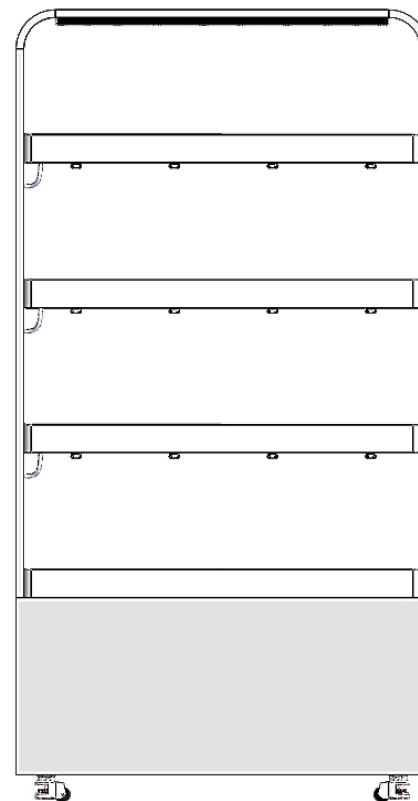


Products Size

Eco-friendly finish



	fixture	Power consumption (KWh)	operations /hrs per day	Cost of Electricity **	Quantity needed *	Total KWh	of use USD		
							Day	Month	Year
Power	Grow White LED top	0.04	12	\$ 0.1	1	0.040	\$ 0.05	\$ 1.44	\$ 17.52
	Wireless LED grow light	0.0125	12	\$ 0.1	12	0.150	\$ 0.18	\$ 5.40	\$ 65.70
	Invert Pump	0.025	1	\$ 0.1	1	0.025	\$ 0.00	\$ 0.08	\$ 0.91
	UV Sterilization	0.018	1	\$ 0.1	1	0.018	\$ 0.00	\$ 0.05	\$ 0.66
	WiFi Controller	0.001	24	\$ 0.1	1	0.001	\$ 0.00	\$ 0.07	\$ 0.88
Total							0.2	\$ 7.0	\$ 85.7





Electricity usage

Energy saving – Vertical farm

	Fixture	Power consumption (KWh)	Operations /hrs per day	Cost of Electricity **	Quantity needed *	Total KWh	of use USD		
							Day	Month	Year
Power	Grow White LED top	0.04	12	\$ 0.1	1	0.040	\$ 0.05	\$ 1.44	\$ 17.52
	Wireless LED grow light	0.0125	12	\$ 0.1	12	0.150	\$ 0.18	\$ 5.40	\$ 65.70
	Invert Pump	0.025	1	\$ 0.1	1	0.025	\$ 0.00	\$ 0.08	\$ 0.91
	UV Sterilization	0.018	1	\$ 0.1	1	0.018	\$ 0.00	\$ 0.05	\$ 0.66
	WiFi Controller	0.001	24	\$ 0.1	1	0.001	\$ 0.00	\$ 0.07	\$ 0.88
	Total					0.2	\$ 0.2	\$ 7.0	\$ 85.7



Wireless LED
FUREGREEN Leaf



PARUS Europe
sales@parus-Europe.com

KOREA (R&D) : ST Building. 18 Techno 11ro , Yusung-gu , Daejeon, S-Korea
CHINA (HQ) : 558 Xindan Rd, Qingpu District, Shanghai , China
Holland (HQ Europe) : Aalsmeerderdijk 70, 1438AT, Oude Meer, Holland

T 82.42.361.1090 F 82.42.361.1093
T 86.21.6405.3510 F 86.21.5788.7071
T +31203038390