

OPCOM[®] Living Green & Healthy



























40ft. Interactive Container

About Container

OPCOM Containers has an advanced collection system for hydroponic growth technology that delivers high throughput and unmanned operation. Intelligent design provides the perfect solution for plant seedlings, planting and final harvesting.

Unmanned clean room factory design prevents external germ contamination. Through the OPCOM cloud control system, the synchronous monitoring system and data storage are realized, that is, the lighting/air conditioning/nutrient solution system control adjustment is automatically performed locally and remotely.

A high-speed growing wave camera that is self-developed and patented to capture every detail of plant growth. Integrating OPCOM's unique long wave, the plant growth rate is increased by 20%.

In the global leading position with patented design, up to 11 advanced intelligent AI (11A) smart containers developed independently. The investment you make will receive the highest return value.

It will provide you with high-quality seedlings, leafy vegetables, strawberry planting containers and hydroponic greenhouses at the most competitive cost.

The OPCOM high-yield container of AI intelligent control system will take you Entering a new generation of high-tech agriculture and achieving great success.





11A Hydroponics Container









TOFC408L8 Seedling TOFC4083 Cloner TOFC4066 Strawberry

11A Advantage Smart Container

- 1. AlO All-In-One Container
- 2. AEC Auto Environment Control
- 3. AHC Auto LED Height Control
- 4. ABC Auto Brightness Control
- 5. ARC Auto Run Control
- 6. ABS Auto Backup System
- 7. ACB Auto Cloud Backup
- 8. ASG Auto Stimulating Grow
- 9. ADA Auto Device Appended
- 10. APF Auto Protection Function
- 11. AHT All Hydroponics Technique Supported

1. AIO: All-In-One Container

1.1, All In One OPCOM Master Station with

- Web cloud/ Web local OPCOM smart gateway Cloud control
- RO water generator
- 5 in 1 auto dosing
- EC. pH water sensor, Environment air sensors (Temp., humidity, CO2)
- 3+3 backup pump
- 21" touch screen CCU & remotely cloud upgrade
- Both Wi-Fi (300m inside range) and Lora (1000m outside) wireless

1.2, Fully Container without external devices includes

- 40 ft High bay Container with Air Shower (for MG), Plant grower Cabinet, UV Light, Aisle Light,
 Circulation Fan, Water Spray, Water Drip system.
- Air conditioning indoor / Outdoor machine -----



- Water Cooler 3.5T ------
- Nutrition /Fresh water tank
- X22 Speed Dome IP Camera with OPCOM Wave------
- 1.3, All inside container without external device

It is very suitable for side by side and stackable placement, can save space.

1.4, Own DSP CCU design

Own design Embedded CCU system to smart software control to each devices and cloud App for Al Big Data collection, analysis and service with Two ways long range wireless protocol.



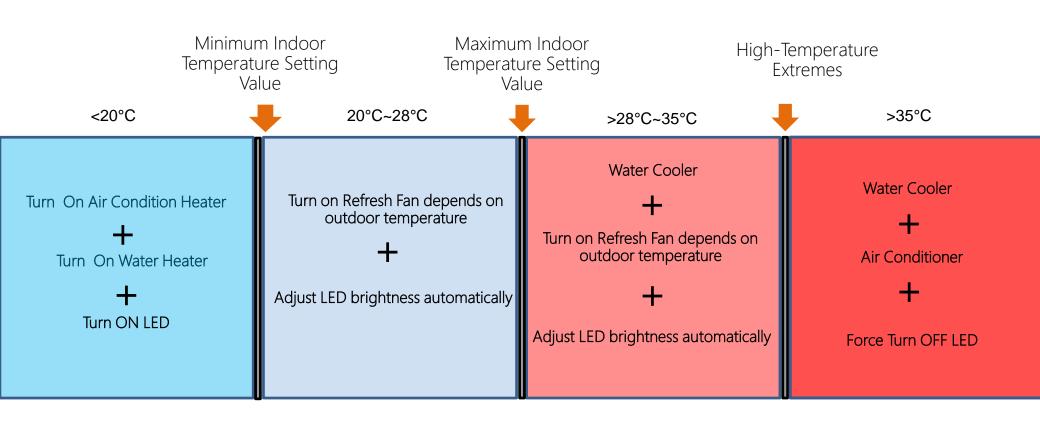




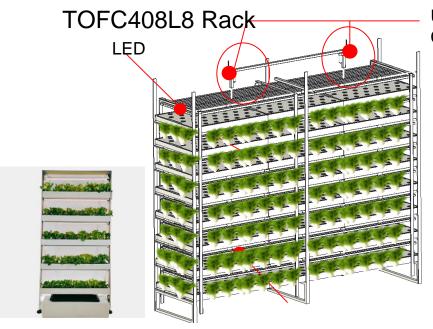


2. AEC: Auto Environment Control

- 1, High effective using nature environment, saving power.
- 2, OPCOM Algorithm to manipulate all parameters automatically. We logs lots of accurately sensors data to monitor all corner of your container

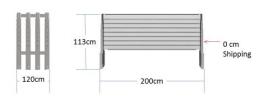


3. AHC: Auto LED Height Control



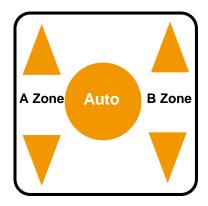
LED Bracket

OFG003L8-4PK 4 Shelf Wall



Up / Down Control

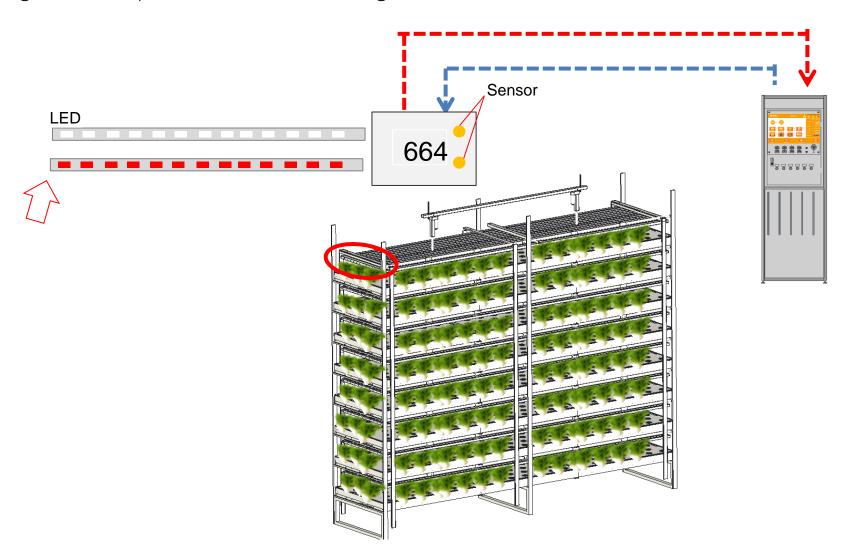
Patented Schedule / Auto adjusted curtain design growth light height against plant height in each stage to win sufficient illumination for optimized the plant growing. LED Light Power saving 57%, Air conditioning energy saving 24%



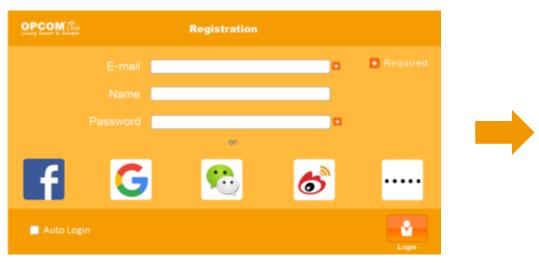
Depends on plants height automatically, best efficiency way to save power consumption,

4. ABC: Auto Brightness Control

Auto detect LED brightness patent design, will automatic adjustable power supply when LED light brightness drop to 70% to increase brightness.



5. ARC: Auto Run Control



Login system to insure safety, and support social net work login



Fully automated smart interface



RGBW full spectrum light



Heater/Cooler control



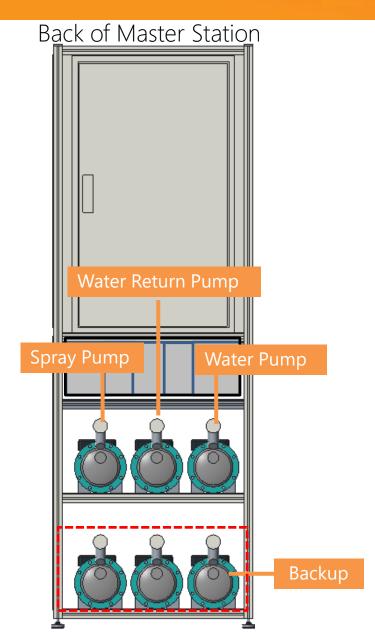
Auto dosing



Live view and storage time lapse

Easy to monitor plant and control full conditions

6. ABS: Auto Backup System



When pumps malfunction, the backup one will start works immediately to prevent the plants from dying.

OPCOM spare parts program provides additional one year backup pump, filter, light.....

7. ACB: Auto Cloud Backup



8. ASG: Auto Stimulating Plants Grow





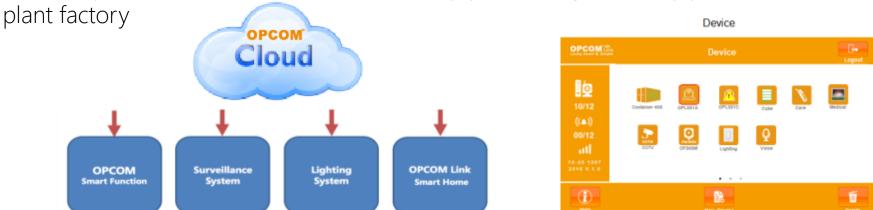
OPCOM Wave delivery specific microwave energy to each plant growing fast up to 20%.

9. ADA: Auto Device Appendence



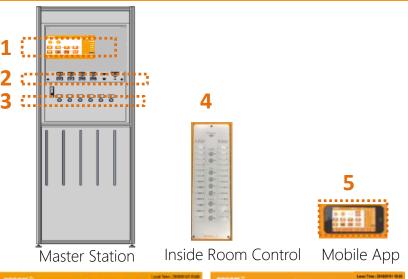
Master station can control 64sets tent, each tent 32pcs device.

OPCOM provides a variety of accessories help you manage not only your container, but also the



Besides the extension of devices, OPCOM cloud can integrates other system, such as surveillance, smart home, and lighting system...etc.

10. APF: Automatic Protection Function



5 Way to control, Master Station IPC, Hard Key, Distribution Box, Inside Clean Room Control and Mobile App to control the container anytime, anywhere.



Warning and Caution Notification, Let you prevent the fatal error.



Precise AC Power Regulator (220V+/-1%, up to 30KVA) provides the stable power source.

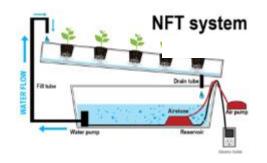
UPS Power protect to IPC, even power shut down, but still can support continue use 1.5hour to download data storage.

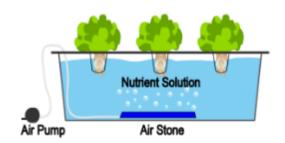
11. AHT: All Hydroponic Technique Supported

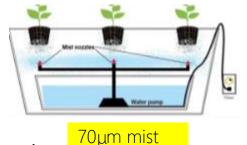
Nutrient Film Technique (NFT System) Grow Frame / Grow Wall / Grow Wall 2 TOFC4088-MG, OHF-LN-0852 Deep Flow Technique (DFT System)

Grow Box / Grow Box 2 / O2 Light TOFC4066, OHF-VA-0852

Aeroponics System
Grow Tank / TOFC4083

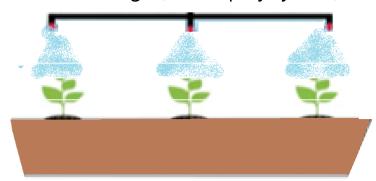






OPCOM's container support all Hydroponic Technique

Media tillage (micro spray system)



OPCOM's container also support media tillage



Al Hydroponics Container

Seedling, Baby Leafy - TOFC408L8





TOFC408L8 40ft. AI Seedling Container

High capacity 8 layers grow system

Feature:

- 1. 40ft closed environment container design for mass production. Saving over 50% space, less labor and high value yield.
- 2. Customized App to fulfill wide variety crops.
- 3. Master Station bundled with central control IPC operates every grow machine simultaneously.
- 4. 22X high speed dome, timely monitor plants grow status on each grow machine, can live view, take video and do time-lapse.
- 5. OPCOM Advanced patent design 11A technology.
 - (AIO、AEC、AHC、ABC、ARC、ABS、ACB、ASG、ADA、APF、AHT).
- 6. Smart OPCOM Link App automatically handles full growing condition with interactive control:
 - 6.1. Smart light mode controls different parameter of full color spectrum lighting.
 - 6.2, Smart Air mode interacts based on In/Outside thermometer / hygrometer to maintain best condition inside container.
 - 6.3, Intelligent watering system can be used according to schedule or using pH/EC meter in automatic liquid feeding system (Nutrition solution, A / B / C / pH + / pH-regulator) regulate and maintain the best water quality.
- 7. High Capacity with short grow time:
 - 7.1, Leafy sprout can grow 100,000pcs per cycle (2weeks), each month get 200,000 plants.
 - 7.2, Cloner can grow 16,000pcs per cycle (4weeks)
 - 7.3, Baby leafy can grow 6192pcs per cycle (4weeks)
- 8. OPCOM Wave design, daily shine around 30mins can speed up growth 20%.
- 9. Special Photocatalysis-coat design to stop moss algae growing on the machine, which can keep the water pipes clean and help plants grow better.
- 10. OPCOM cloud data analysis, thru algorithm exactly control plants each stage grow data to give plants good care.



Planting 18 sets amount Leafy (10cm*12cm)

OFC408L8-SD Leaf seedling (3cm * 3cm): 109,296pcs / Cycle(2W) 759pcs / Panel * 8Layer * 218,592pcs / Month 18 sets Vine seedling (5cm * 5cm): 280pcs/panel * 8Layer *

40,320pcs / Cycle (4W)

6,192pcs / Cycle (4W)

43pcs/panel * 8Layer * 18 sets Planting area: 0.7m * 1m * 8Layer * 18 sets

Air Condition

CO₂ Generator

weight

100 m²

Consumpution 220V+/-10% (AVG/Day) **LED**

Air

Power

Max: 265KWH #2 Min.: 132KWH #3

Auto: 232KWH #1

>150 umol / m² / s @ 5cm 7800W

Fan 5pcs 2 IN 1 Sensor (Temp. + Hum) Air Sensor 3 IN 1 Sensor (Temp. +

5P

Hum+Co2)

Water Tank 1.1t Nutrient Tank 1.1t Water cooler

3.5P Pumping motor 0.375kw Nutrient tank <505ml / min / 6-16w RO filtered water 300 gallon / day (option)

1pcs

Equipment

Water

EC/pH/ water level sensor Auto test PTZ OPCOM Growth Wave Camera

22X x 4pcs

8 ton

EC / pH /Level meter by

stabilizer 30KVA 40' HC container

TOFC408L8 40ft. AI Seedling Container Placement



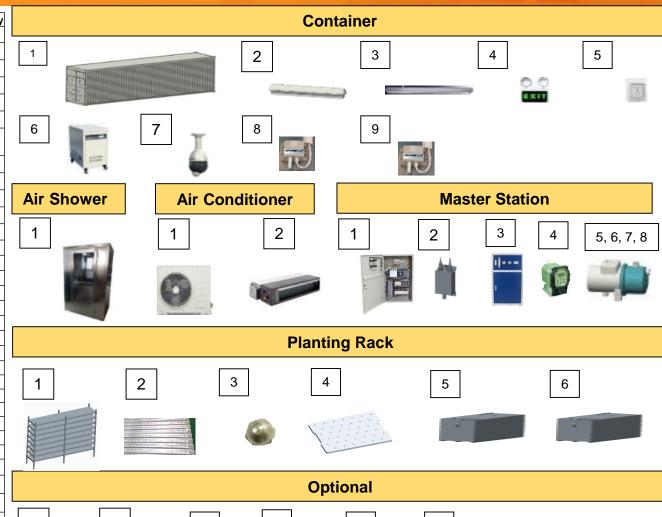


Generator Pump*6 UPS

TOFC408L8 40ft. AI Seedling Container Equipment List



	Item	OFC408L3	Quantity		Container					
Container	1	40' HC	1							
	2	UV Lights	3	1				2	3	
	3	Indoor Lights	2		THEORY GLALL	CTHALLT HARACTER	19191919191919191919191919191919191919			
	4	Emergency Light	1		1		9960 101616161			
	5	Extension Socket	1			Prophing Prophing				
	6	Voltage Stabilizer(30KVA)	1			7				
	7	PTZ OPCOM Growth Wave Camera- 22X	4	6		/	I	8	9	11
	8	2 IN 1 Sensor (Temp. + Hum)	6		1000			10		IU
	9	3 IN 1 Sensor (Temp. + Hum+CO ₂)	1			_	0		_	
Air Shower	1	AC 220v – For One Person	1	Air S	hower		Air Cor	nditioner		Mas
Air Conditioner	1	5P Air Conditioning Outdoor Unit	1							
	2	Air Conditioning Indoor Unit	1	1 1		1		2	1	2
Master Station	1	Distribution box	1							
	2	EC/pH Detector sensor	1							
	3	RO Water Filter	1			6	A	0		
	4	5 in 1 Dosing + Dosing motor	5							
	5	NT Pump	2			1				
	6	Fresh Water Pump	2							
	7	Water Return Pump	2					Pla	anting Rack	
	8	Sprayer Pump	2						J ,	
Planting Rack	1	750mm * 3010mm * 2450mm	6							
	2	Grow Light	192 240	1		2		3	4	5
	<u>3</u> 4	Sprayer Planting tray - (70*100cm)	144				_			
	5	Water Tank (Around 1 Ton)	1	N-	+					
	6	Nutrient Water Tank	2							
Optional	1	Water Chiller	1			AND DESCRIPTION OF STREET			\	
	2	Water Heater	1	1	1					
	3	10" touch screen CCU	1						Optional	
	4	OPCOM Camera Wave Module	4			_			•	
	5	16 Channel NVR	1	1	2		3	4	5	6
	6	CO ₂ Generator	1							





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