

New Generation Farmer Smart
Assistant to Catch LED Spectrum



PG200N Spectral PAR Meter

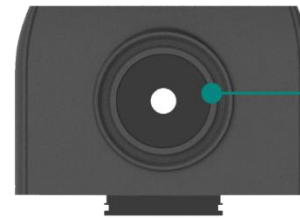
PG200N Outlook



Sensor Cover



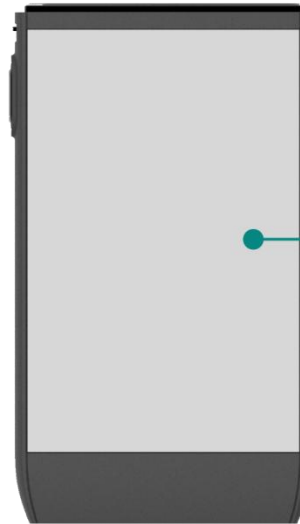
Micro SD card



CMOS Linear Image Sensor
IP66 (Waterproof level)



USB Type C Interface (3M)

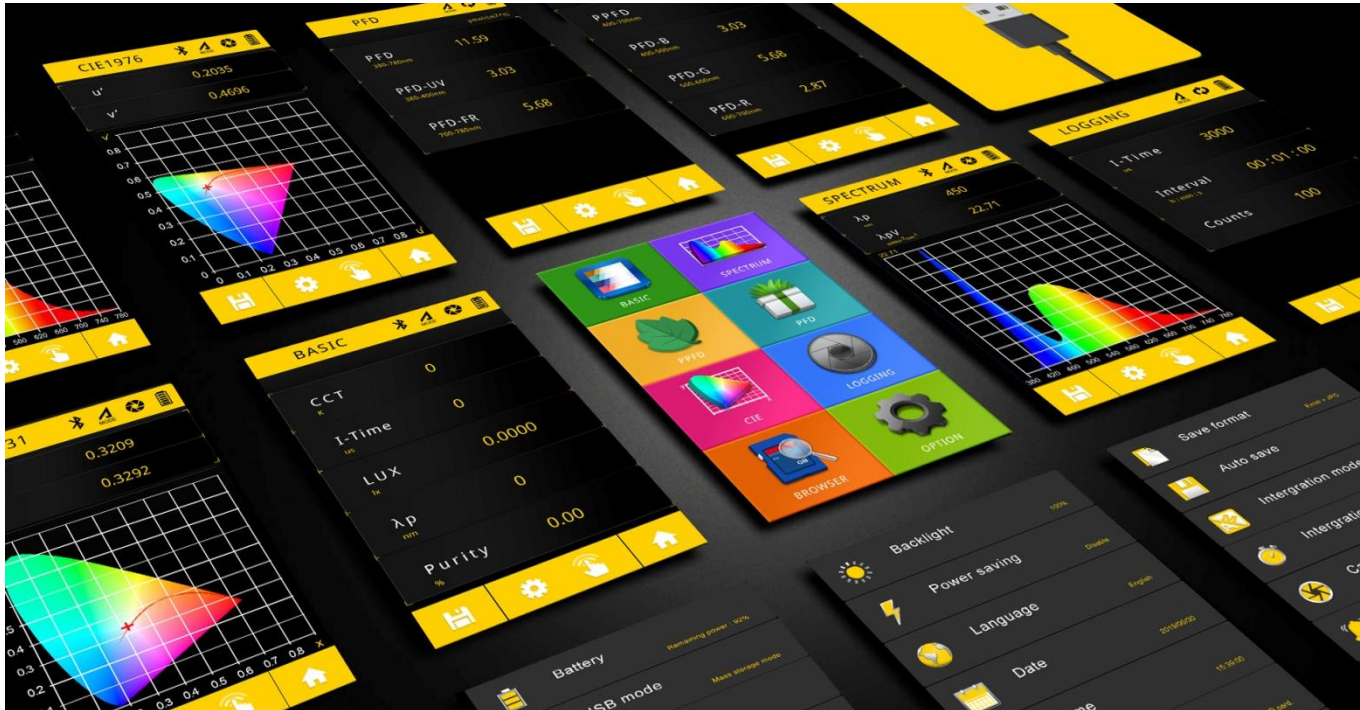


4.3" 800x480 Capacitive Touch LCD

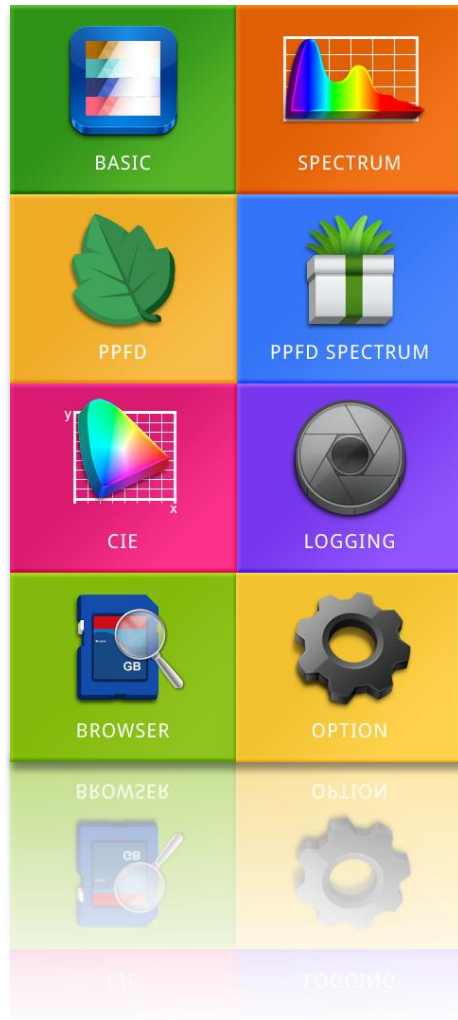
Main Body



Features

- Conforms with requirements of JIS AA class & DIN B class to meet the standard of illuminance meters.
- Sensor meets the IP66 waterproof level
- Auto dark feature- Ensures the measurement quality with high reliability and precision.
- PPFD Reference- For a better understanding of real needs of plants.
- PPFD/PFD range can be customized
- G sensor- Checks the measuring position from time to time and reduces the artificial measurement error.



Operation Mode



- BASIC mode
CCT / CRI / LUX / λP / i-Time and etc.
- SPECTRUM mode
Visible light spectrum
-  • PPFDF mode
PPFD / PFD / PFD-B / PFD-G and etc.
-  • PPFDF SPECTRUM mode
Visible PPFDF spectrum
- CIE mode
CIE1931 chromaticity / CIE1976 chromaticity
- LOGGING mode
Continues measuring
- BROWSER mode
Review historical data and save to the SD card easily.
- OPTION mode
Other setup items to note in the System

Compliance with the Standards

new

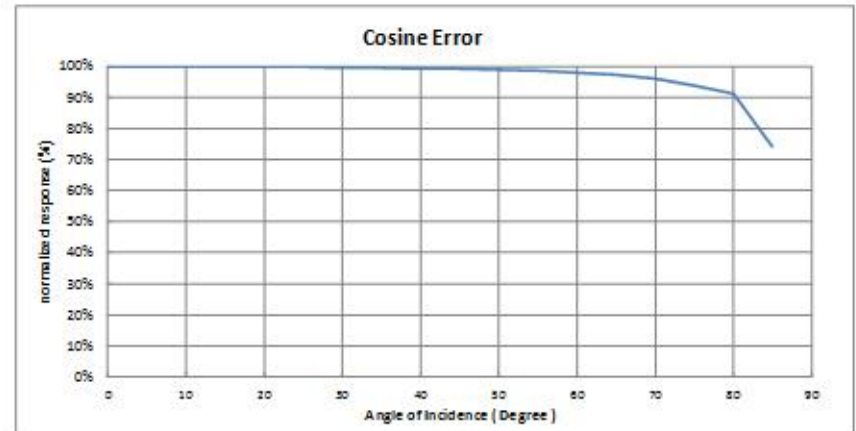
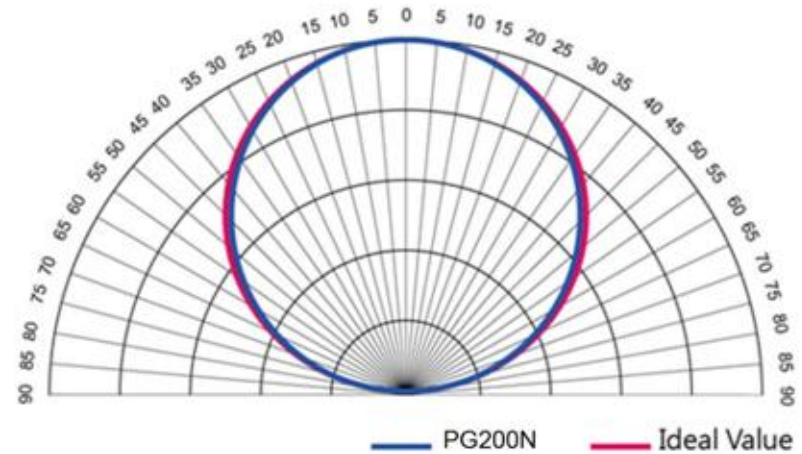
↘ High Accuracy, Precision and Reliability

JIS AA

Conforms to JIS C 1609-1:2006
for General Class AA

DIN

Conforms to DIN 5032 Part 7 Class B



Water Repellent sensor

new



Water Repellent



PPFD Mode

new

↘ Choosing the exact PPFD/PFD indices (B, G, R, UV and FR) or customizing the PFD range depend on users needs. As a result, they can know the effective light or radiant energy of photosynthesis .

The image displays two smartphone screens. The left screen shows the main PPFD measurement interface with a yellow header and a list of measurement items. The right screen shows the 'PFD range' customization menu with a red box highlighting the '350 ~ 800' range.

1 Customized PPFD measurement items

Measurement Item	Value
PPFD (400-700nm)	11.59
PFD-B (400-500nm)	3.03
PFD-G (500-600nm)	5.68
PFD-R (600-700nm)	2.87
350-800 nm	12.34

2 Customized PPFD range

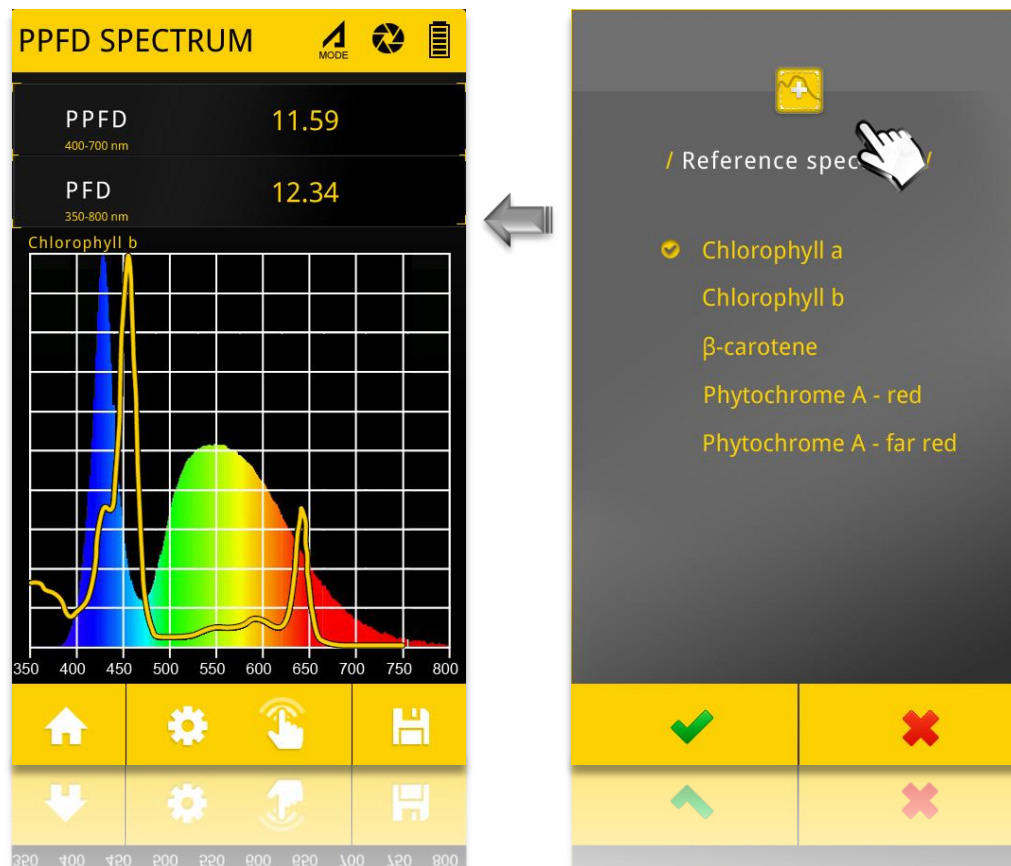
350 ~ 800

PPFD SPECTRUM Mode

new

➤ Embedded with PAR Reference Spectrum for users to compare and compensate the necessary light which the plant needs intuitively.

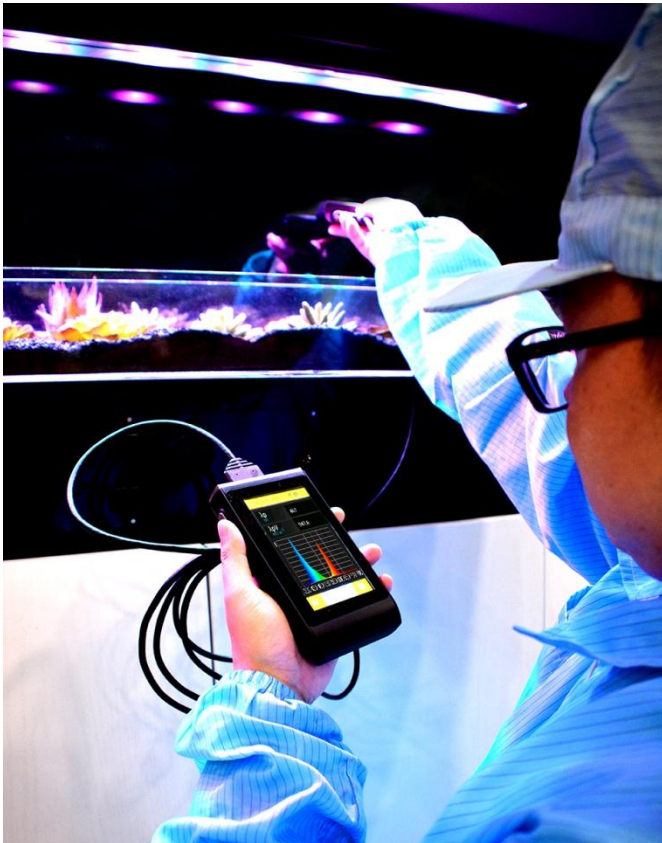
➤ Select Reference Spectrum



G Sensor (Motion Sensor)

new

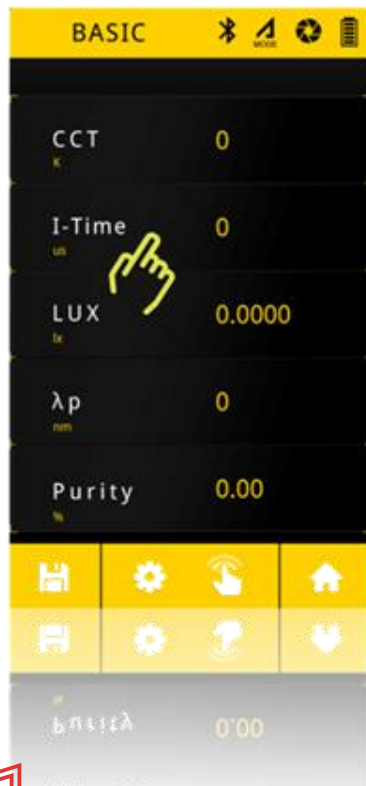
↘ It is similar to “Horizontal Position Sensor” function. It helps users adjust the measuring position dynamically.



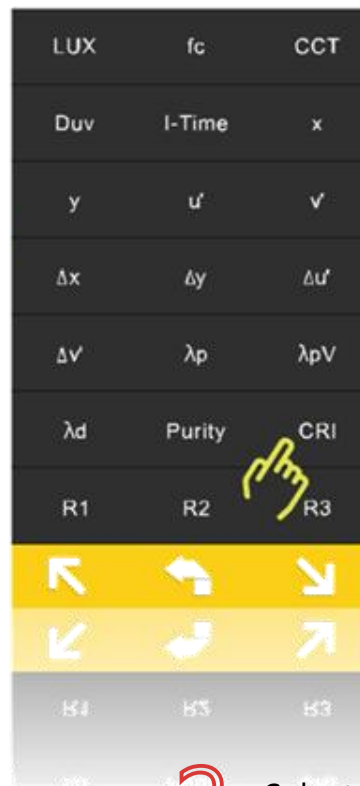
Sensor head also can be used with a selfie stick and camera tripod. Users can easily measure far reaching ranges and adjust the measurement point horizontally.

Basic Mode

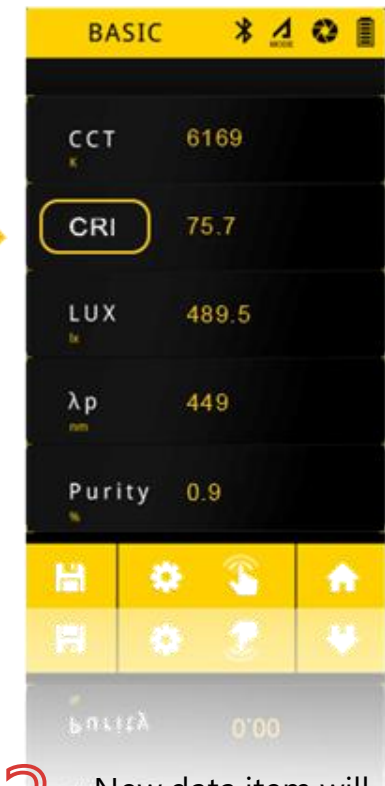
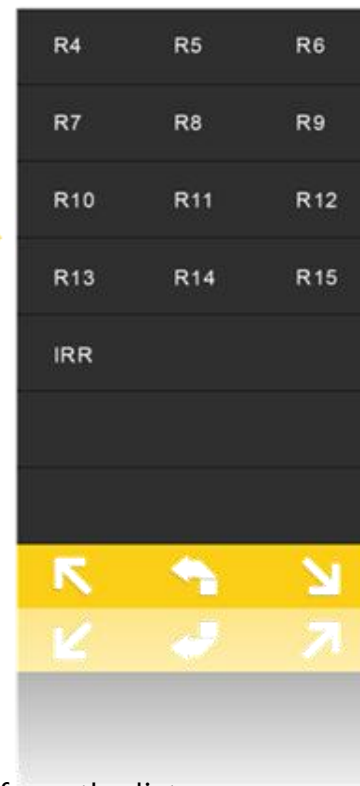
↘ Creating your main 5 customizing menu list.



1 Tap the measuring unit

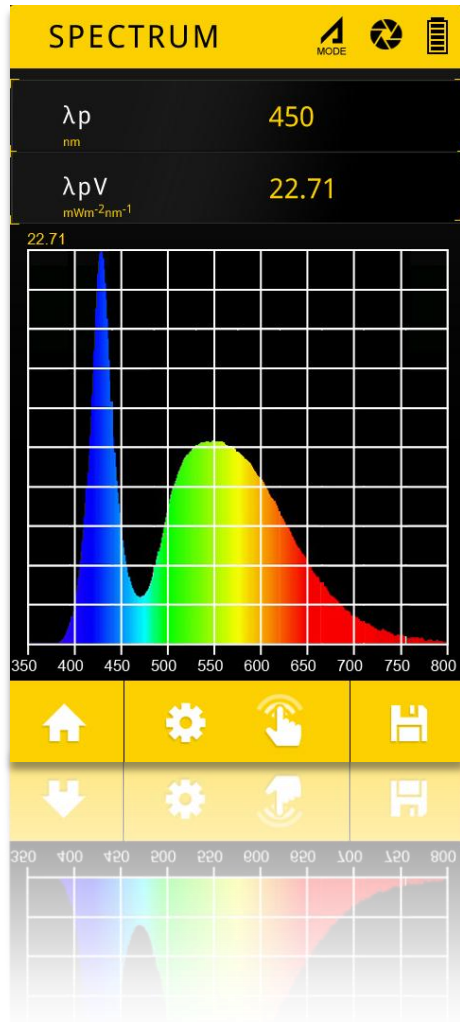


2 Select an item from the list

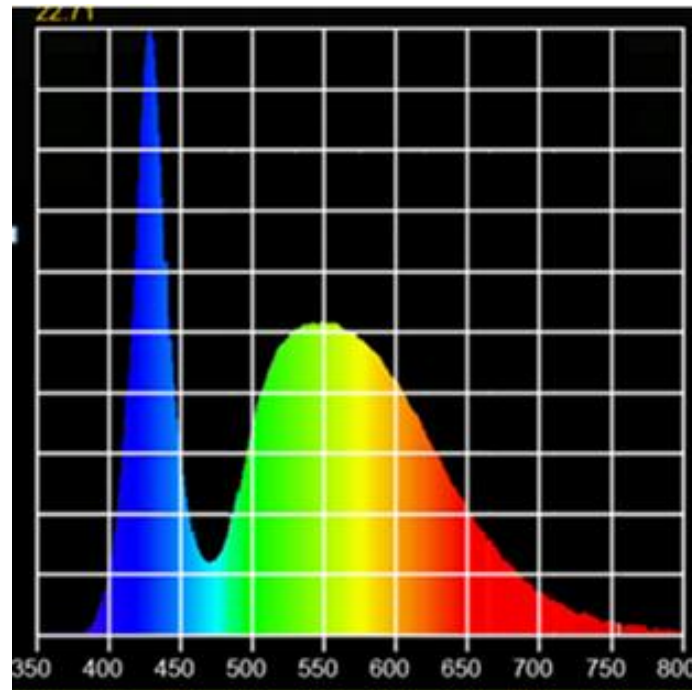


3 New data item will be displayed

SPECTRUM Mode



↘ Wavelength Range is 350 to 800 nm



LOGGING Mode

↘ Monitors the LED light real time, records and analysis the data to help build the plant growth pattern.

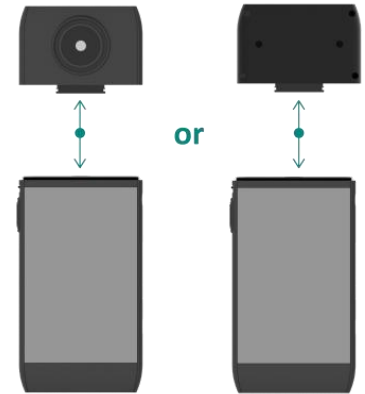
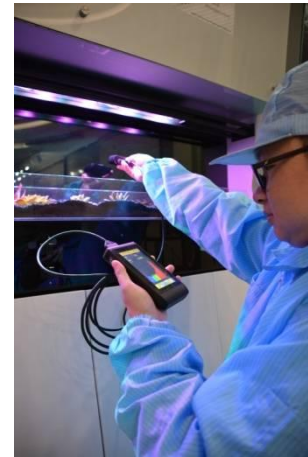


Multiple-measurement

➤ Standalone



➤ Detachable Sensor Head



➤ With PC software through Type C Cable



uSPECTRUM



➤ With APP wireless measuring through Bluetooth



uSPECTRUM Mobile App



uSpectrum PAR

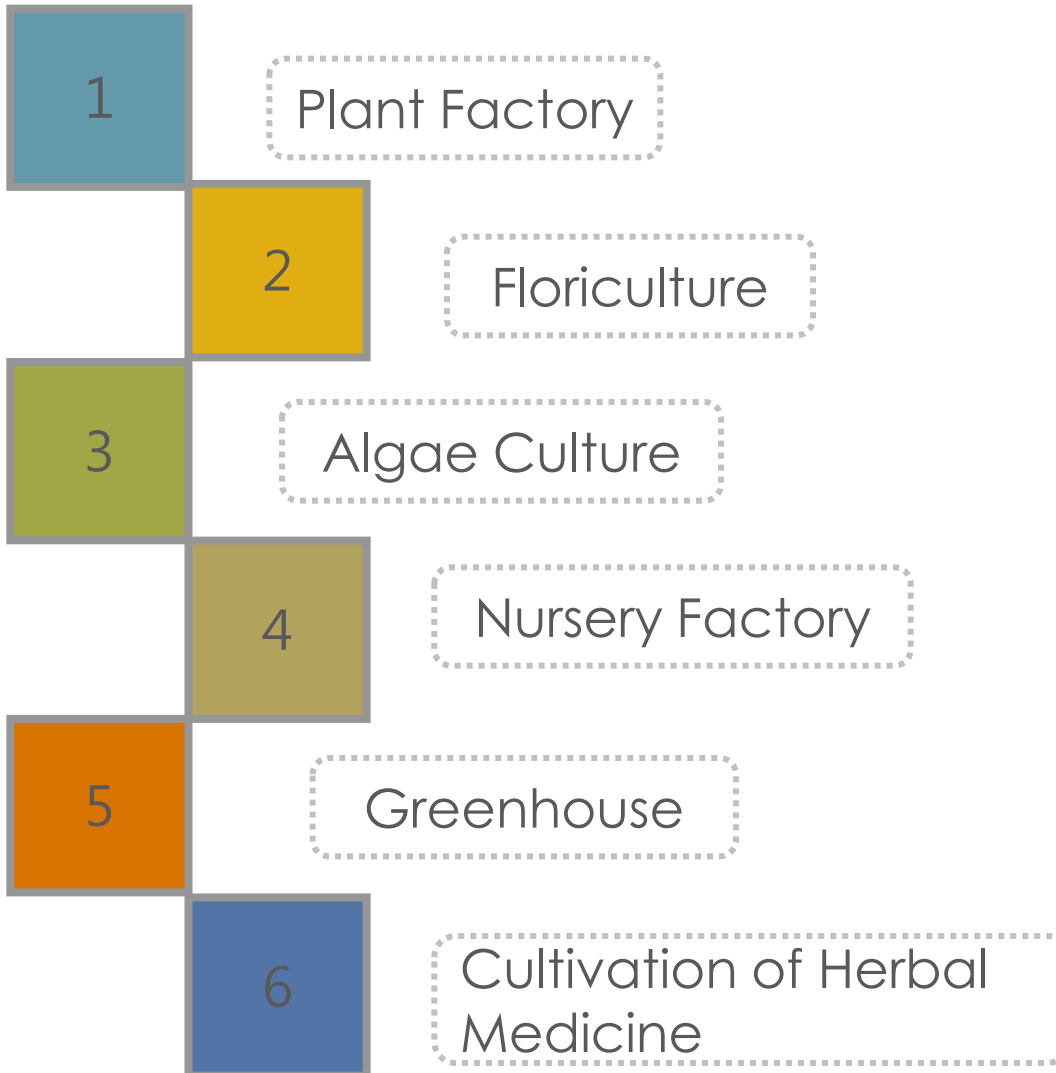


PG200N Spec

Spec		
Wavelength Range	350-800nm	
Touch LCD	4.3" Capacitive	
Cousine Correction	Meet JIS AA and DIN B	
Dark Mode	Auto	
Connect with APP	Bluetooth Mode	
I/O	Micro SD Card/Type C	
Measurement Range	1. 70 ~ 150,000 lx 2. 0.5~1,000 W/m2 (Irradiance) 3. 1~3,000 $\mu\text{mol}/(\text{m}^2*\text{s})$ (PPFD)	
Illuminance Accuracy	$\pm 5\%$	
Illuminance Repeatability (2 σ)	0.2%	
Color Accuracy	Illuminant A @ 2,856 K at 20,000 lx *1	± 0.0025 in CIE 1931 x,y
Color Repeatability (2 σ)		0.0005 in CIE 1931 x,y
CCT Accuracy		$\pm 2\%$
CRI Accuracy @ Ra		$\pm 1.5\%$
Measuring Modes (New)		* PPF Mode: You could choose the indexes you want and choose the wavelength you want. * PPF Spectrum Mode: Including Chlorophyll A, Chlorophyll B, Beta-carotene, Phytochrome A- red, Phytochrome A- far red
Others	* Waterproof -IP66 @Sensor * Add G sensor(= bubble level)	

*1:Temperature 23 \pm 2 $^{\circ}$ C and relative humidity 50% or less.

Ideal For





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