

IFBOT

If intelligence can change life,
If technology can change destiny,
Could this world be as you wish?
IFBOT Tech has always been trying
to seek the answer to the question...

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if the world like this...

IFBOT X3

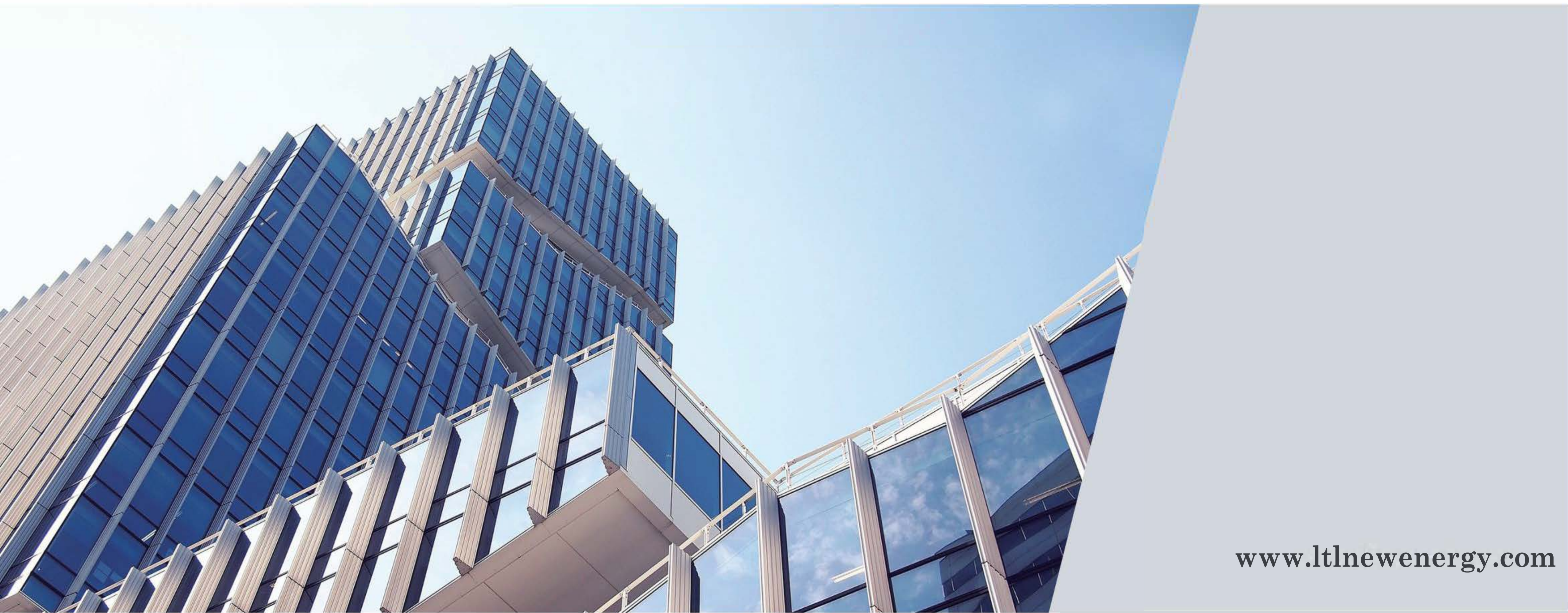
Redefine the Solar Panel Cleaning Robot



reddot winner 2022
best of the best

IFBOT Cleaning Solution is more than 'lightness'

If the world like this . . .



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IFBOT Tech has long-term in-depth industry-university-research cooperation with Shanghai Jiao Tong University and other well-known universities, and has established a highly educated and experienced R&D professor team. A series of core technologies related to cleaning robots have been developed, and many related patents and intellectual property rights have been obtained as well. So far, IFBOT Tech is granted 51 patents (16 invention patents, 30 utility model pa-tents, and 5 appearance patents).



In the future, IFBOT Tech is going to launch a new generation of land-air integrated devices for larger cleaning objects such as Solar Thermal Power Plants. IFBOT robot will be carried by a drone to move between PV arrays to achieve fully automatic and large-scale robot delivery and recycling. Therefore, it is capable of assisting and replacing manual operations in all directions.

Part of patents:



A Brand New Way to Clean Solar Panels

- IFBOT X3 Cleaning Robot

Replaceable battery doubles run time for longer cleans

The cleaning system is powered by two lithium batteries, allowing uninterrupted cleaning for 4 hours. The replaceable design makes the battery easy to remove and install, so the cleaning time can be easily extended.



Efficient management

Water free cleaning with nanofibre rollers

Each cleaning unit has two motorised nanofibre rollers to pick up dust particles from solar panels, then the dirt is collected into the dust bin immediately through the turbo-charging centrifugal fan.



Easy to carry

Gecko-like walking adapts to different inclined surfaces

IFBOT robot closely adsorbs itself on the PV panel surface via the movable suckers, making it easy to climb on a smooth slope of 0-45° more stably and freely.



One-button control

Scheduled Cleaning by pressing just one button

IFBOT robot can be started with just one touch. Equipped with integrated sensors, the robot is able to accurately detect the PV modules' edge, and independently calculate the most effective path.

Light weight ensuring easy handling

The lightweight robot is designed to avoid trampling damage to the sensitive solar surfaces. A single operator could manage dozens of robots at one time and achieve an optimum cleaning result without any physical efforts, so it helps to reduce the operation and management costs.



Passing 10cm gap

Support nighttime cleaning and return at low battery

IFBOT robot supports nighttime cleaning instead of daytime operation, reducing the influence on the PV plant. Moreover, it would automatically return to the PV array' s lowest point when power is low.

Specifications

Dimensions	1020mm*188mm*180mm
Weight	6.2 KG
Run Time	4 hours
Climbing Capacity	0° - 45°
Cleaning Capacity	30m ² /h
Dustbin Capacity	2*270ml
Protection Class	IP56