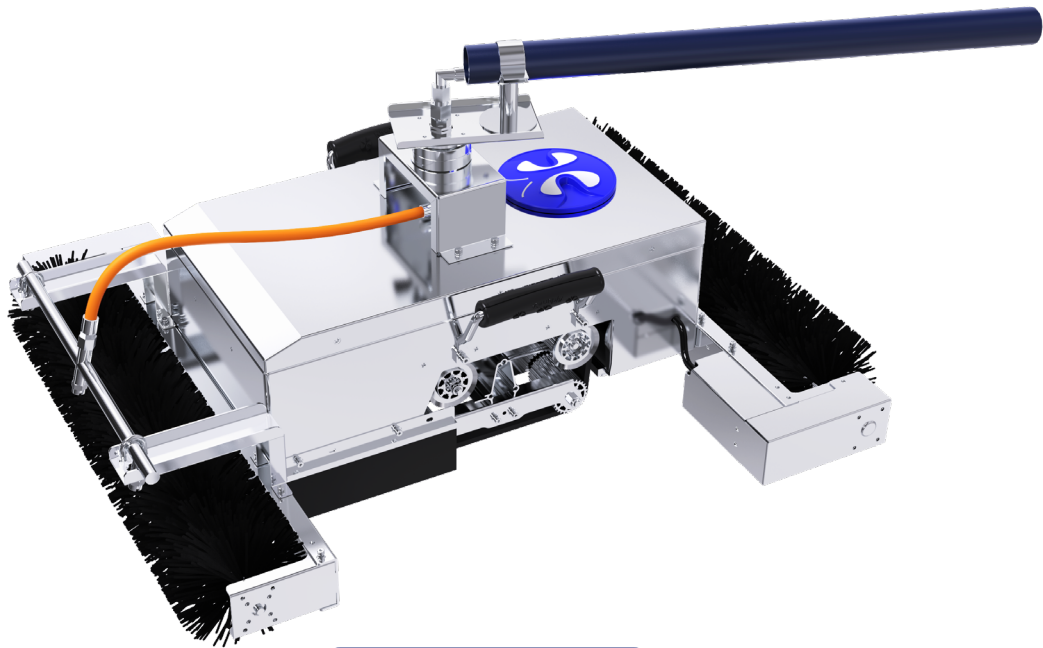




# KWUNPHI



## E11L

# KWUNPHI —

## The Advocator of High Standard Clean Quality

Dry Cleaning	Recommendation	Wet Cleaning
0~10°	PV Panel Angle*	0~5°
-20~80°C	PV Panel Surface Temp.	0~80°C
-20~50°C	Environment Temp.★	0~50°C
40mm	PV Panel Gap	40mm
10mm	PV Height Difference	10mm
Wet Cleaning Angle	Rainfall	25~50 mm Light Rain
62~74 km/h Fresh Gale	Wind Power	20~28 km/h Moderate Breeze
IP 65	Protection Class	IP 65

\* PV panel angle data ultimately depends on the characteristics of the contaminant.  
 (☆ Shenzhen Kwunphi reserves the right to interpret the data )

# Kwun E11L Technical Specification

<b>Technology</b>	Based on TianyunOS Operating System
	Based on Glass vSLAM Visual Navigation Technology
	Based on Goodzenn Path Planning Technology
	Based on Ai-KWUN Operating Platform
	Based on OTA-KWUN Operating Platform

<b>Life &amp; Endurance</b>	Design Life:	6 years
	Warranty(whichever comes first):	1 year or 2400 hours
	Battery Capacity:	15Ah
	Working Time per Battery*:	5 hours
	Charging Time:	3 hours
8 Hours Battery Life:		Replace The Battery Every 5 hours

<b>Ability to Clean</b>	Dust (adhesion $\leq 10^{-6}N$ ) :	$\geq 85\%$
	Dust Accumulation (adhesion $\leq 10^{-4}N$ ) :	$\geq 80\%$
	Dried Guano (adhesion $\leq 10^{-2}N$ ):	$\geq 70\%$
	Cleaning Efficiency:	$\geq 200m^2/h$

<b>Shape</b>	Body Size* (without brushes):	550*390*230mm
	Body Weight* (without brushes):	14.15kg
	Brush Length* (detachable):	641mm
	Brush Weight* (detachable):	3.0kg & 2.5kg
	Number of Rolling Brushes:	2

<b>Manipulation</b>	Maximum of Single Control:	12 sets
	Roof RECO Maximum Number Operate:	2 sets
	RECO Maximum Number Operate on Slopes:	2 sets
	Software Upgrade:	OTA
	Work at Night	No
	View Logs in Real Time:	Yes
	UAV Retraction:	No
	Unmanned on Approach Bridge:	Yes
	APP Control Remotely:	Yes
	Remote Control:	No
	Breakpoint Continuation:	No
	Adjust the Brush Speed:	Yes
Rated Brush Speed:	180r/min	

<b>Security</b>	Working Mode:	Autonomous Work; Mobile APP
	Positioning Mode:	AI Semantic Vision
	Positioning Accuracy:	$\leq 20mm$
	Steering Mode :	High Precision Adsorption Steering Mechanism
	Anti-fall Protection :	AI Semantic Vision + Ultrasonic
	Anti-skid :	Track Self-cleaning + High Precision Deviation Correction Algorithm
	Protection Class :	IP65
	Microcrack Certificate :	Certificate Issued by BV

\* Working time of the battery may vary due to different situation, loads, battery consumptions and other factors.

\* Weight and size of robots may vary slightly due to the change of suppliers.

(☆ Shenzhen Kwunphi reserves the right to interpret the data )