



KWUNPHI



E33H

KWUNPHI —

The Advocator of High Standard Clean Quality

Dry Cleaning
0~20°
-20~80°C
-20~50°C
40mm
30mm
Wet Cleaning Angle
62~74 km/h Fresh Gale
IP 65

Recommendation
PV Panel Angle*
PV Panel Surface Temp.
Environment Temp. ★
PV Panel Gap
PV Height Difference
Rainfall
Wind Power
Protection Class

Wet Cleaning
0~15°
0~80°C
0~50°C
40mm
25mm
25~50 mm Light rain
29~38 km/h Fresh Breeze
IP 65

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

Kwun E33H Technical Specification

Technology	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

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

Ability to Clean	Dust (adhesion $\leq 10^{-6}N$) :	$\geq 99\%$
	Dust Accumulation (adhesion $\leq 10^{-4}N$) :	$\geq 95\%$
	Dried Guano (adhesion $\leq 10^{-2}N$):	$\geq 85\%$
	Cleaning Efficiency:	$\geq 650m^2/h$

Shape	Body Size* (without brushes):	650*560*250mm
	Body Weight* (without brushes):	25.75kg
	Brush* (detachable):	7.2kg (B type)
	Brush and Water Branch*:	8.3kg (B type)
	Brush Length*:	1285mm (B type)

Manipulation	Maximum of Single Control:	24 sets
	Roof RECO Maximum Number Operate:	4 sets
	RECO Maximum Number Operate on Slopes:	4 sets
	Software Upgrade:	OTA
	Work at Night	Yes
	View Logs in Real Time:	Yes
	UAV Retraction:	Yes
	Unmanned on Approach Bridge:	Yes
	APP Control Remotely:	Yes
	Remote Control:	Yes
	Breakpoint Continuation:	Yes
	Adjust the Brush Speed:	Yes
Rated Brush Speed:	160r/min	

Security	Working Mode:	Autonomous Work; Mobile APP
	Positioning Mode:	AI Semantic Vision
	Positioning Accuracy:	$\leq 10mm$
	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.

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