



KWUNPHI



E33H

KWUNPHI —

The Advocator of High Standard Clean Quality

Dry Brushing
0~20°
-20~80℃
-20~50℃
40mm
30mm
water Washing Angle
62~74 km/h Fresh Gale
IP 55

Project
PV panel Angle*
PV panel Surface Temp.
Environment Temp. ★
PV panel Gap
PV Height Difference
Rainfall
Wind Power
IP Rating

Water Washing
0~15°
0~80℃
0~50℃
40mm
25mm
25~50 mm Light rain
29~38 km/h Fresh Breeze
IP 55

* 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):	2 years or 4800 hours
	Battery Capacity:	15Ah
	The Battery Life*:	3 hours
	Charging Time:	3 hours
Ability to Clean	8 Hours Battery Life:	Replace The Battery Every 3 hours
	Dust (adhesion $\leq 10^{-6}\text{N}$) :	$\geq 99\%$
	Dust Accumulation (adhesion $\leq 10^{-4}\text{N}$) :	$\geq 95\%$
	Dried Guano (adhesion $\leq 10^{-2}\text{N}$):	$\geq 85\%$
Shape	Cleaning Efficiency:	$\geq 650\text{m}^2/\text{h}$
	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)
Mani- pulation	Brush Length*:	1285mm (B type)
	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
Security	Adjust the Brush Speed:	Yes
	Rated Brush Speed:	160r/min
	Working Mode:	Autonomous Work; Mobile APP
	Positioning Mode:	AI Semantic Vision
	Positioning Accuracy:	$\leq 10\text{mm}$
	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 Rate :	IP65
	Microcrack Certificate :	Certificate Issued by BV

* Battery life 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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