

# Colour Sorter

IPMA INDUSTRY SDN. BHD.

益马工业有限公司

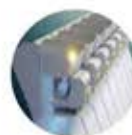
198501004398 (136837-P)



Model : DREAM Series



## DREAM Series



Vibrator sensing hopper sensors



Brand new integrated large touch screen



New ejector assembly



High brightness & low temperature rise LED light source



Automatic background adjustment function



Wide chute design can fit high capacity 8-15t/h production line



Super high defination Toshiba 5400 pixel CCD camera sensor.



Rice shape sorting function, provide picture result preview

### Thru vision sorting

ACCEPT



Thru vision good grain

REJECT



Thru vision bad grains

### Length grading

ACCEPT

Long grain



Short grain



REJECT

### Colour sorting

ACCEPT



Good Seed

REJECT



Green



Damage Grains



Chalky



Short Grains



Ripe but Chalky



Red Rice

[www.ipmaindustry.com](http://www.ipmaindustry.com)

Details provided about the properties and usability of the products are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.



Your One Stop Rice Processing And Solution Centre!



# Technical Specification

## Colour Sorter Model : DREAM Series

Model	Working Unit	Power of Main Machine	Voltage	Air Pressure	Air Consumption	Dimension	Weight
ID-360	360 Channels	3.0kw	220V 50Hz	0.6-0.8MPa	<3.0m <sup>3</sup> /min	2710 x 1580 x 2020 mm	1700kg
ID-480	480 Channels	3.6kw	220V 50Hz	0.6-0.8MPa	<4.0m <sup>3</sup> /min	3333 x 1580 x 2020 mm	2070kg
ID-600	600 Channels	4.2kw	220V 50Hz	0.6-0.8MPa	<5.0m <sup>3</sup> /min	3925 x 1580 x 2020 mm	2430kg

### CONFIGURATION INDEX

Index	Item	DREAM SERIES(Standard)	DREAM SERIES(Luxury)	
Performance Index	Key Components	15-inch LCD	●	
		Micron-sized HD color sensor	●	
		Infrared Imaging System	—	
	Sorting Index	Yield per Chute	>2.5t	>2.5t
		Shape Sorting	●	●
		Spectrum Confocal 2.0 system	●	●
		Targeted Sorting	●	●
	Service Life	Patented Maglev Ejector	>10 billion times	>10 billion times
		LED	>50 thousand hours	>50 thousand hours
		Power Supply	>50 thousand hours	>50 thousand hours
	Foreign Materials Removal	Glass, desiccants	☆☆☆☆☆	☆☆☆☆☆
		Plastics	☆☆☆	☆☆☆☆
		Same-in-color stones	—	☆☆☆
		Foreign materials	—	—
	Air Circuit System	Point-to-point Dust Sucking System	●	●
		High-efficiency Air Circuit System	●	●
	Machine Protection	Chute Cover	○	○
		Input Protection Cover	●	●
	Intelligent Production Line	Extremely Simplified Interface	●	●
		Sorter Care 5.0	●	●
Remote Commission		●	●	
Auto-check & Auto-tuning		●	●	
Automatic backup		●	●	
Panorama quality analyzer		○	○	

Parameters above are tested on the environment of 25 °C and 2% impurities rate and may change in different conditions.

☆: Function strength, ●: Standard, ○, Selection -: No



ISO 9001 : 2015  
Approval No : 0048394

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## SORTER CARE 5.0 MANAGE PRODUCTION LINES AT YOUR FINGERTIPS



### REMOTE CONTROL

Get running status information anytime anywhere just on your smart phone.  
Get information of throughput and defects percentage in real time just on your smart phone.

### AUTOMATIC BACKUP

Scheduled backup of key data to the cloud for calling excellent sorting solutions anytime.



### AUTO-CHECK & AUTO-TUNING

Regular auto-check and auto tuning of key data of signal, lighting and dust to ensure excellent performance of sorters.

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### Colour Sorter Main Components Details

NO.	Parts	Brand	Country	Specification
1	CAMERA CCD SENSOR	TOSHIBA 5400 pixel, industrial level RGB sensor	JAPAN	High sensitivity : 12V / (lx.s) Dynamic range : 2800:1 Low noise factor : < 0.6 mv Pixel Size : 14um x 14um Resolvable spot : 0.03 mm <sup>2</sup>
2	CAMERA LENS	Specially oem from NIKON for colour sorter use	JAPAN	Resolution : 150 line pair Low distortion : < 0.3 %
3	CPU	USA ALTERA 4ht Genration CYCLONE FPGA	USA	Data Processing speed : > 2340 K bits CPU Speed : > 200 MHZ Data Transmission speed : > 3.125 Gbps
4	LED	Germany OSRAM	GERMANY	Life Time : > 50000 HOURS
5	EJECTOR	MEYER patented special alloy high speed ejector, designed for color sorter,with switching frequency action up to 1200/s	CHINA	Lowest switch time : < 0.05 ms Long life time : > 10 billion times
6	LCD SCREEN	NEC	JAPAN	Chromatic touch screen, 15 inch, 24k colour, Resolution : 1024 x 768
7	COMPRESS AIR FILTER	SMC	JAPAN	filter for 0.3um size min. oil

