



www.uniquecolorsorter.co.in

Most Comprehensive
Sorting Solutions for your
PROSPERITY



S++ SERIES



5400 PIXEL



ARM + FPGA
USA Processor



INTELLIGENT
SORTING



GLOBAL REMOTE
SERVICE CENTRE

US Innovation

Better SORTING
FOOD
BUSINESS



Assured Sorting
Performance



Best in Industry
Service Network



Higher Machine Uptime &
Lesser Maintenance

COMPANY PROFILE

Unique Solutions is a professional supplier since 2011, specialised in the R&D, production and sales of combined optoelectronics and mechanical product especially the optical machines. Unique Solutions is dedicated to offer reliable, trust-able, safe and easily operational sorting solutions technique. With the spirit of forge and persist in innovation, the team in Unique Solutions uphold the business orientation principle on quality, high efficiency and customer satisfaction, and the Unique Solutions team will continuously develop new sorting application in new field as well.

Presently, we have developed high quality sorting technique and equipment for application on Rice, Grain, Coffee Beans, Sesame, Sunflower Seeds, Plastics, Raising, Minerals, Seeds etc., owe to unique running performance

In company, we are dedicated to provide customer with perfect sorting equipment and service support, discussing with customer for advance sorting industry development tendency. Providing sustainable developed strategy for customers, assisting customer to be strongest to make sure mutual benefits. Unique Solutions is always working for global food safety, making effort for developing and upgrading of sorting system and intelligent equipment with motto "MAKE RELATIONS TO SUSTAIN THEM..."

Technical Specification

Model No (S++)	Throughput (t/h)	Channel Number	Sorting Accuracy (%)	Power (KW)	Power Supply V/Hz	Air Pressure (Mpa)	Air Consumption (m3/min)	Dimension (LxHxW) in mm (Aprox.)	Weight (Kg) (Aprox.)
S1	0.5~0.9	64	>99	1.0	220/50	0.6~0.8	0.1~0.4	1465*1126*1560	365
S4	3~5	256	99.99%	2.2	220/50	0.6~0.8	1.0~2.0	1912*1574*2090	955
S5	3.5~6	320	99.99%	2.6	220/50	0.6~0.8	1.3~2.1	2226*1574*2090	1120
S6	4~7	384	99.99%	3.5	220/50	0.6~0.8	2.0~3.5	2540*1574*2090	1285
S7	4.5~8	448	99.99%	5.0	220/50	0.6~0.8	2.5~4.3	2854*1574*2090	1460
S8	5~ 10	512	99.99%	6.0	220/50	0.6~0.8	3.0~4.5	3168*1574*2090	1640
S10	6~12	640	99.99%	7.5	220/50	0.6~0.8	4.0~5.5	3796*1574*2090	2000

- **UNIQUE SORTER** is a global phenomenon in optical sorting. Its sorting accuracy gives the best yield and efficiency of any optical sorting system and even at the highest production capacities. It sorts a variety of commodities. **RICE • PULSES • BEANS • NUTS • GRAIN • SEEDS • TEA • COFFEE • SPICES • DEHYDRATES • PLASTIC**
- Specification may changes without prior notice due to continuous research & development.
- The color performance above is with impurity content of 2% as an example. Specific indexes may vary with the difference in material and impurities.

Technology Advantage



1

HIGH RELIABILITY

- The mechanical structure is designed for reliability and stability for any product.
- Introducing a cooling system to improve the service life and stability of the machine.
- The electrical and optical design system is meant for simplicity and efficiency, this optimized system reduces the complexity of the machine and improve its reliability



2

HIGH QUALITY 5K CAMERA

- Use of 5400 pixel high speed, high resolution linear CCD camera and high precision dedicated lens to receive image, enable distinguishing the hetero-chromatic defects upto 0.07 mm² accurately.
- Matching the optimum illumination brightness according to marital characteristic, shadow-less lighting.



3

HIGH QUALITY JAPANESE EJECTORS

High quality, high frequency, long service life ejectors with super low air consumption guarantees consistent performance ensuring highest capacity and excellent rejection output.



4

HIGH QUALITY AIR FILTER SYSTEM

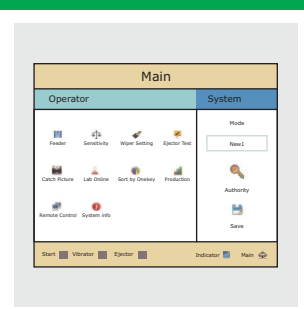
Extraordinary Performance Due to "Tone" Fresh



5

MULTIDIMENSIONAL STEREO SPECIALIZATION ALGORITHMS

- Our unique intelligent image processing algorithms processes large region light yellow and tiny spots, Needle – size black specks etc effectively and efficiently to improve sorting accuracy.
- Unique Recognition Algorithms for Color, Shape, Texture and Angle Comprehensive, multidimensional due to professional so powerful



6

HIGH QUALITY IMAGE PROCESSING SYSTEM

Advanced image acquisition system, new generation of ARM, FPGA processor technology from USA, Arithmetic speed will be much faster = excellent elimination rate.

7

EASY OPERATION SCREEN

Simple optical system design with optical system combined with user friendly human-machine interface enables simple operation so that minimal skilled operator can operate the machine.

AFTER-SALES SERVICE


- To be the best in Customer service is our top most priority and target.
- We adhere to this core principal. We have experienced, dedicated and sensitive service team to understand our customer requirement and adept to provide solutions to them.
- Along with our best-in-industry customer service we also provide professional training & technical guidance to the person related to machine at site.

Make Relations to Sustain them ...


UNIQUE SOLUTIONS


Sister Concern : Unique Service Solutions

DEALS IN: COLOR SORTER MACHINE, AMC & SERVICE

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Relevant Sorting Results



Authorised Business Partner

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