Introduction of Company

Anhui Zhongke Color Sorter Machinery is located in China Technology City-Hefei,specializing in R&D,production,sales&service of hi-tech visual intelligent equipment.We are committed to the most efficient,stable and easy-operate intelligent separating machines which could fulfill the full-automatic separation of different materials,regardless of color ,shape,weight,type and composition.Zhongke Color Sorter will provide customers with an integrated sorting solution.

RGB type for rice color sorting solutions

1,Sorting of milky white rice

2,sorting of discolor rice

3,sorting of light yellow rice and foreign substances
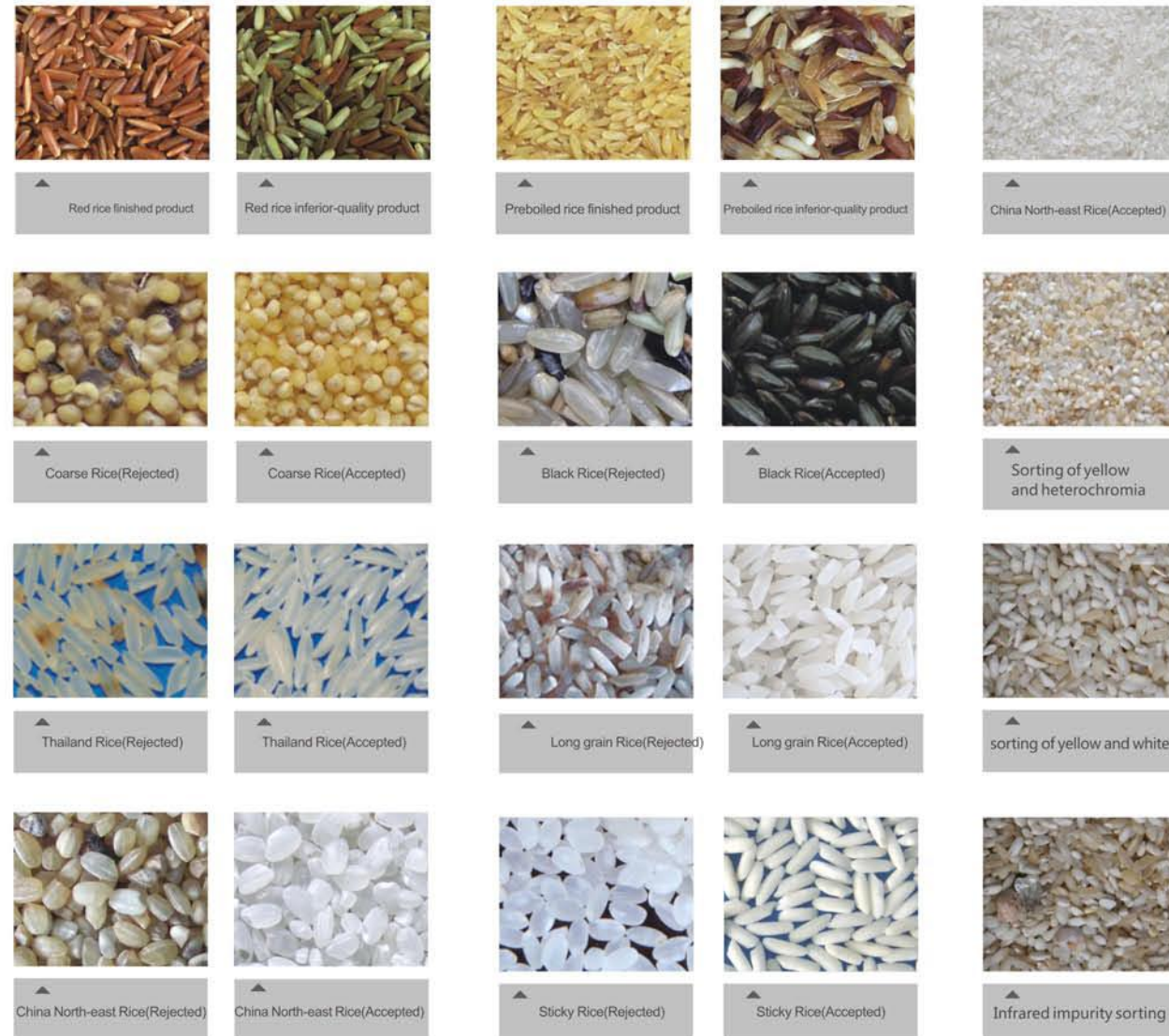
4,sorting yellow and broken rice

5,Sorting of yellow and white rice

sort yellow and chalky simultaneously,
third and forth sorting ,
reverse sorting
infrared (option)

EXAMPLES OF SORTING

Red rice finished product	Red rice inferior-quality product
Preboiled rice finished product	Preboiled rice inferior-quality product
China North-east Rice(Accepted)	
Coarse Rice(Rejected)	Coarse Rice(Accepted)
Black Rice(Rejected)	Black Rice(Accepted)
Sorting of yellow and heterochromia	
Thailand Rice(Rejected)	Thailand Rice(Accepted)
Long grain Rice(Rejected)	Long grain Rice(Accepted)
sorting of yellow and white	
China North-east Rice(Rejected)	China North-east Rice(Accepted)
Sticky Rice(Rejected)	Sticky Rice(Accepted)
Infrared impurity sorting	

SORTING CLASSIFICATION CASE:

Long shaped rice	Long shaped semi-broken rice	Long shaped small-broken rice	Round shaped rice	Round shaped big broken rice	Round shaped small broken rice

ENABLE TO GET RID OF MALIGNANT IMPURITIES:

Stone	Glass	Soil block	Dry agent	Ceramics debris	Plastics

中科光电
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AMD 安美达

Intelligent Cloud Interconnection
To Sort The New World

ZHONGKE WINCHEM INTELLIGENT CCD RICE COLOR SORTER

Cloud Techology

RC winchem intelligent   RC⁺ Three-mirror series   RCI infrared series

Big data cloud brain	A key intelligence	Video capture	Independent original calculation	Super brain recognition	Intellectual point light source	The remote control	Online services	The remote upgrade

Intelligent diagnosis

RC winchem intelligent rice color sorter

RC7-64X model picture

ZHONGKE CLOUD

Remote cloud diagnosis
Comprehensive maintenance intelligent diagnosis

Remote cloud services
To detect and quick service

Remote cloud custom
Smart capture remote Settings

Remote cloud control
Grasp opportunities anytime and anywhere

Remote cloud upgrade
Keep pace with The Times Innovation is infinite
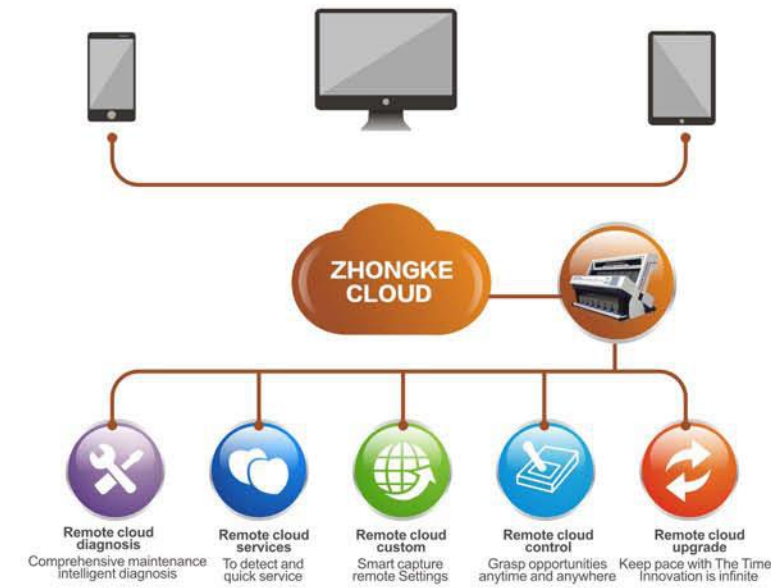
CORE CLOUD

ZhongKe Big data
Build open vast databases, unlimited storage integration solution platform, wide material implementation used a multiple-choice, multi-usage, single machine can be completed at the same time two, three, four, carry out than reduction, single machine can be used for rice, grains, crops, such as widely used, the maximum product application value for the customer creation, sharing the convenience of the era of large data and commercial value.

A key smartphone operating system
Freedom of choice, define the color of the material, shape, size, the area of the flaw, determine to eliminate, a key intelligent control technology, the automatic and accurate matching the optimal separation scheme, according to the law of sorting the autonomic computing, intelligent recognition, intelligent sorting.

Chi moving magnetic control high frequency electromagnetic valve
Independent development of color choose intelligent magnetic control high frequency electromagnetic valve, create a leading think lever in flexible return technology alternatives to traditional pneumatic return function, flow without leakage, choosing permeability; Original superconducting magnetic use and launch control, current limiting technology, compared with the industry average electromagnetic valve to save power consumption by about 70%, save gas consumption of about 20%; Application of new high anti-wear material matching equipment used, to ensure that life, to create the best production efficiency.

Autonomic computing and super brain intelligent identification
Powerful autonomic computing technology and multi-dimensional space more large-scale operations, fusion super brain intelligent recognition, machine learning algorithm using image recognition, optical error correction and improve image acquisition process of distortion, the distortion caused by the realization of color choose adaptive arithmetic, satisfies the requirement of high precision separation.

The cloud systems
Zhongke cloud service technology platform, can real time remote control, operation and maintenance, software upgrades, light source, electrical, mechanical and proofreading problem diagnosis and monitoring, product online operation, data acquisition, online guidance, to provide real-time, accessibility, close all active online tracking service.

Intelligent air curtain dust removal system
Through intelligent air curtain system, glass dust produced high-speed airflow to camera, light objects such as rapid real-time cleared, to ensure that the resolution and color accuracy, greatly enhance the work efficiency.

Visual intelligent image acquisition system
Zhongke cloud service technology platform, can real time remote control, operation and maintenance, software upgrades, light source, electrical, mechanical and proofreading problem diagnosis and monitoring, product online operation, data acquisition, online guidance, to provide real-time, accessibility, close all active online tracking service.

Light source control dimming system
Advanced digital automatic automatic dimming technology, which can automatically according to the variation of material choose don't requirements and environment matching best brightness, fully guarantee the effect of color to choose.

RC⁺ Three-mirror series of rice color sorter

## THREE BIG SURPASSING TECHNIQUES EXCELLENCE PURSUES ACMES
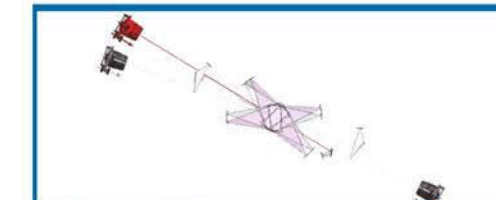
1 Three-mirror
It is popular in the industry to add one group of mirror to recognize saturability based on two-mirror, three-mirror shall realize five-color sorting (RGB+2 and expandable), increase recognition accuracy of scab and shallow yellow, super-low ratio of separation mass shall realize common sorting of yellow and white.

2 Form sorting
Classification function of form sorting can perfectly solve the removal of broken rice, imperfect rice, intermixing rice in finished rice and doesn't affect rice conditions and quality, simplify rice processing procedure, it can meet intermixing and separation of long shaped rice, round shaped rice; separate and sort whole-grain rice, semi-broken rice and small-broken rice.
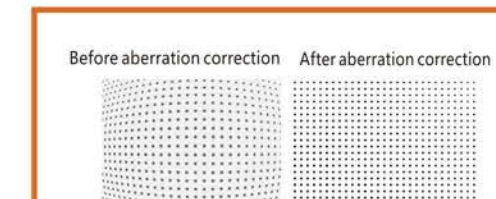
3 Non-linear aberration correction
It shall develop and satisfy vision correction of high-accuracy sorting and signal automatic compensation technique on basis of camera non-linear compensation technology, as well as high-end sorting requirements because of distortion and aberration caused by signal errors during corrected image collecting.

Before aberration correction   After aberration correction

RCI infrared series of rice color sorter

Safeguard against food safety and keep no place to hide malignant impurities

Innovative infrared spectrum analysis
Adopt the most advanced domestic Fourier external spectral technology and neural network algorithm to make comprehensive precise analysis for materials available for sorting, ensure each kind of materials to obtain the perfectest solution.

Multi-spectral camera technology
Adopt imported high-speed infrared sensor, study domestic first-rate multi-spectral infrared camera, make real-time dynamic detection of materials; truly realize full-wave band material sorting to keep no place to hide impurities in combination of visible light full-color camera technology.

High speed near infrared sensor
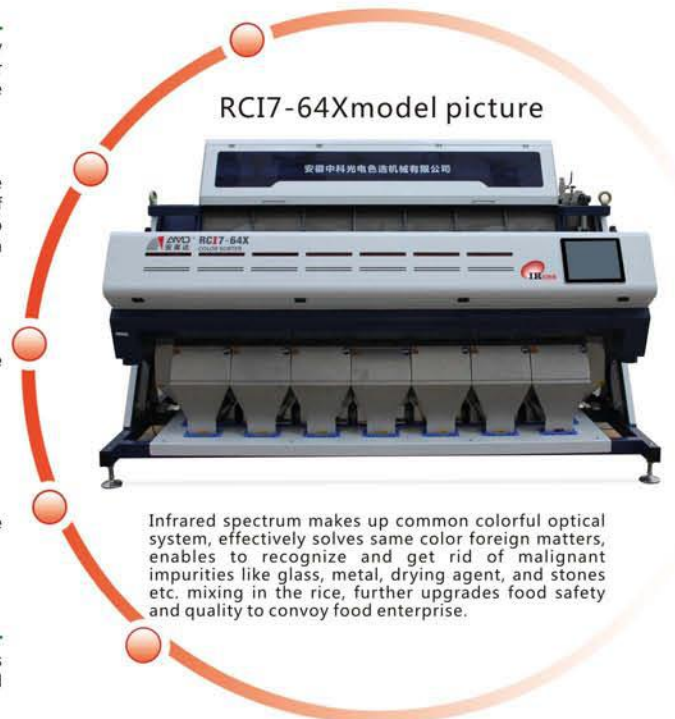Adopt overseas imported high-speed infrared sensor and make real-time dynamic detection

Automatic image calibration algorithm
Make real-time dynamic image calibration, extremely increase stability and anti-disturbance performance of machine

Super bright full-spectral light source
Comprehensively upgrade color sorting accuracy of dark materials with domestic first-rate light source lighting technology and innovative condensation high-bright full-wave light source

RCI7-64X model picture

Infrared spectrum makes up common colorful optical system, effectively solves same color foreign matters, enables to recognize and get rid of malignant impurities like glass, metal, drying agent, and stones etc. mixing in the rice, further upgrades food safety and quality to convoy food enterprise.

Enable to get rid of malignant impurities:

Stone   Glass   Soil block   Dry agent   Ceramics debris   Plastics

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RC WINCHEM INTELLIGENT RICE TECHNOLOGY PARAMETERS

Model Type	Layer number	Output (T/h)	Carryover rate (bad:good)	Accury (%)	Voltage/frequency (v/Hz)	Power (Kw)	Weight (Kg)	Dimensions (mm)
RC1	6SXM-64A	1-2	80:1	>99.9%	AC220V/50HZ	0.5-0.8KW	270	875X1550X1320
RC2	6SXM-128A	1.5-3	80:1	>99.9%	AC220V/50HZ	0.65-1.1KW	460	1240X1710X1720
RC3	6SXM-192A	2-4	80:1	>99.9%	AC220V/50HZ	0.85-1.4KW	650	1555X1710X1720
RC4	6SXM-256A	3-6	80:1	>99.9%	AC220V/50HZ	1-1.8KW	840	1870X1710X1720
RC5	6SXM-320A	4-8	80:1	>99.9%	AC220V/50HZ	1.3-2.2KW	1030	2185X1710X1720
RC6	6SXM-384A	4.5-9	80:1	>99.9%	AC220V/50HZ	1.7-2.8KW	1220	2500X1710X1720
RC7	6SXM-448A	5-10	80:1	>99.9%	AC220V/50HZ	1.9-3.2KW	1350	2815X1710X1720
RC8	6SXM-512A	6-12	80:1	>99.9%	AC220V/50HZ	2.2-3.7KW	1510	3130X1710X1740
RC10	6SXM-640A	7-16	80:1	>99.9%	AC220V/50HZ	2.5-4.2KW	1850	3760X1710X1740
RC12	6SXM-576A	9-18	80:1	>99.9%	AC220V/50HZ	2.9-4.8KW	2190	3935X1710X1740

Remarks: The above parameters are test results based on polished rice, long-shaped rice, long grain rice, round rice under the circumstance of single-group throughput being 1-3T/h. Actual Throughputs vary according to material impurities.

RC⁺/RCI WINCHEM INTELLIGENT RICE TECHNOLOGY PARAMETERS

Model Type	Layer number	Output (T/h)	Carryover rate (bad:good)	Accury (%)	Voltage/frequency (v/Hz)	Power (Kw)	Weight (Kg)	Dimensions (mm)
RC⁺1/RCI1	6SXM-64A	1-2	100:1	>99.99%	AC220V/50HZ	0.7-1.2KW	270	875X1550X1320
RC⁺2/RCI2	6SXM-128A	1.5-3	100:1	>99.99%	AC220V/50HZ	0.95-1.6KW	460	1240X1710X1720
RC⁺3/RCI3	6SXM-192A	2-4	100:1	>99.99%	AC220V/50HZ	1.5-2.5KW	650	1555X1710X1720
RC⁺4/RCI4	6SXM-256A	3-6	100:1	>99.99%	AC220V/50HZ	1.8-3KW	840	1870X1710X1720
RC⁺5/RCI5	6SXM-320A	4-8	100:1	>99.99%	AC220V/50HZ	2.3-3.8KW	1030	2185X1710X1720
RC⁺6/RCI6	6SXM-384A	4.5-9	100:1	>99.99%	AC220V/50HZ	2.5-4.2KW	1220	2500X1710X1720
RC⁺7/RCI7	6SXM-448A	5-10	100:1	>99.99%	AC220V/50HZ	2.8-4.6KW	1350	2815X1710X1720
RC⁺8/RCI8	6SXM-512A	6-12	100:1	>99.99%	AC220V/50HZ	3-5KW	1510	3130X1710X1740
RC⁺10/RCI10	6SXM-640A	7-16	100:1	>99.99%	AC220V/50HZ	3.2-5.4KW	1850	3760X1710X1740
RC⁺12/RCI12	6SXM-576A	9-18	100:1	>99.99%	AC220V/50HZ	3.6-6.1KW	2190	3935X1710X1740

Remarks: The above parameters are test results based on polished rice, long-shaped rice, long grain rice, round rice under the circumstance of single-group throughput being 1-3T/h. Actual Throughputs vary according to material impurities.