Real-time Machine Status Monitor

RGB CCD Sensor (2048 pixels)

Novel Dedicated
Special Ejection System

New Generation FPGA Processor

Optional NIR Technology

Large Touch Screen Panel

Main Features

Increased Productivity
◆ Dedicated digital sorting engine to deliver high speed sorting
◆ Wide flat chutes to increase throughput

Maximized Sorting Yield
◆ High speed and precise ejection to minimize good product in reject
◆ Resort capability reclaims good product from reject

Highest Sorting Accuracy
◆ High speed, high resolution, full color RGB CCD camera (2048 pixels) to detect tiny defects
◆ Advanced imaging technology to sort defects with minimum contrast
◆ Enclosed feeding system to provide better feeding and chute protection
◆ Infrared sorting (optional) to effectively sort foreign materials

User Friendly Operation
◆ High resolution touch screen with user-friendly graphics
◆ Real time monitor of machine status
◆ Easy software upgrade with USB

Ejection
◆ Specially made ejectors and optimized timing for low carryover, reduced air consumption
◆ Dual air supply for stable air pressure under high defect sorting

Main Features

Advanced Vision System:
◆ Specially designed optical to reduce shadow and distortion
◆ High speed, sensitive CCD camera with 2048 pixel resolution to detect tiny spot defects
◆ Optional NIR (Near Infrared) to detect foreign material with same color as good rice grain

Intelligent software and Powerful Digital Image Processing
◆ 4th Generation FPGA + high speed DSP to deliver power sorting algorithms
◆ Customized color model to support sophisticated defect processing including Spot, Area, Size defects
◆ Support multiple sorting modes to minimize product change over time
◆ Bi-chromatic (visible + NIR) sorting to support Light, Dark sort on both visible and NIR wavelengths, which cover all kinds of defects and foreign materials

Optimized Ejection
◆ Fast valve response to ensure accurate ejection on defects
◆ Optimized blow time to reduce good rice carried over into reject
◆ Ejection protection by hardware to save ejector life

Easy Operation
◆ Big touch screen graphic interface
◆ Automatic faults monitoring and alarm
◆ Configurable re-sort capability
◆ Remote debug and easy software upgrade by USB

Technical Data(CF Series)

Model	CF3	CF5	CF7
Channels	180	300	420
Capacity(lbs/h)	4,500–22,000	7,000–35,000	10,000–55,000
Electrical	Single phase, 110V/220V, 50/60Hz, 1.8Kw	Single phase, 110V/220V, 50/60Hz, 2.9Kw	Single phase, 110V/220V, 50/60Hz, 3.5Kw
Air Consumption	64 CFM @ 90–120 PSI	106 CFM @ 90–120 PSI	150 CFM @ 90–120 PSI
Weight	2,200	3,000	3,900
Size (L x W x H)in	57 x 63 x 84	82 x 63 x 84	103 x 63 x 84

Technical Data(R Series)

Model	R3	R5	R7
Channels	180	300	420
Capacity(lbs/h)	4,500–22,000	7,000–35,000	10,000–55,000
Electrical	Single phase, 110V/220V, 50/60Hz, 1.8Kw	Single phase, 110V/220V, 50/60Hz, 2.9Kw	Single phase, 110V/220V, 50/60Hz, 3.5Kw
Air Consumption	64 CFM @ 90–120 PSI	106 CFM @ 90–120 PSI	150 CFM @ 90–120 PSI
Weight	2,000	2,800	3,500
Size (L x W x H)in	57 x 60 x 84	82 x 60 x 84	103 x 60 x 84