

SENVEC

Universal Design

Advanced Color Sorter

UDR-6F series

FULL COLOR CCD CAMERA TYPE
TEA COLOR SORTER

UDR-1

UDR-2

UDR-3

UDR-4



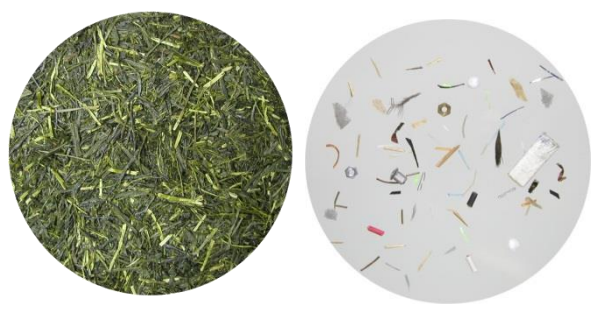
Any type of Color Sorting and Foreign Material Rejection

Specially designed high sensitive full color 3CCD Camera realized the surprising color sorting that no machine was able to do. By image processing of a picture of color CCD camera, this can sort any kind of tea leaf and remove foreign material from tea leaves.

Japanese Green Tea



Foreign Material Rejection from Green Tea



Oolong Tea



Sri Lankan Leafy Tea



Sri Lankan Tippy Tea



Foreign Material Rejection from Black Tea



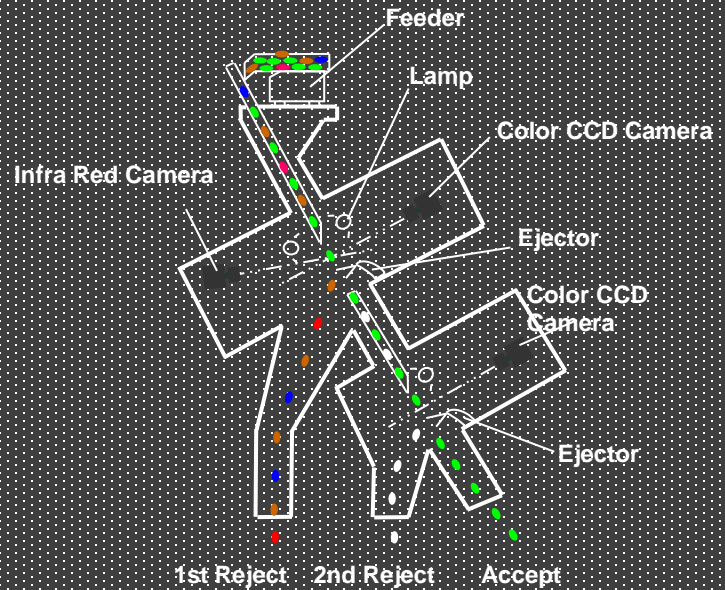
Flat Chute and CCD camera

■ Full Color 3CCD camera detects stalk and foreign material which has different color.

■ Optional Infra Red Camera detects Foreign Material which has similar color as Tea Leaf.

■ High Angle Flat Chute can feed any type, shape and weight of Tea smoothly to the Optical Area.

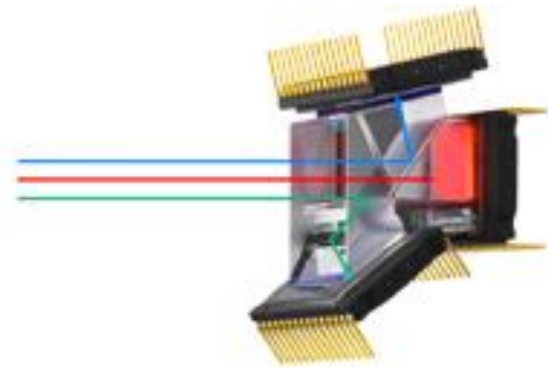
■ 5mm Ejector Pitch minimizes good leaf in the Rejection.



Four Spectrum Detection

■ Full Color CCD camera detects Red, Blue and Green color and High Speed Processor checks Brightness and Color Phase. The material which has different Brightness or Color Phase from Tea Leaf, is rejected.

■ Even the Foreign Material has the same color as Tea Leaf, it is detected by Infra Red Camera (optional) and rejected.



Easy Operation in Touch Screen

■ 99 Settings such as Color Sorting Mode, Foreign Material Rejection Mode, Green Tea Mode, Black Tea Mode, are programmable.

■ 14inch Touch Screen indicates Sensitivity, Feeding Speed and Color Area of Material during Operation.

■ All ejectors can be tested manually and automatically in the Ejector Test Mode.

■ The Brightness of Lamp is monitored and Timing of replacement is indicated.

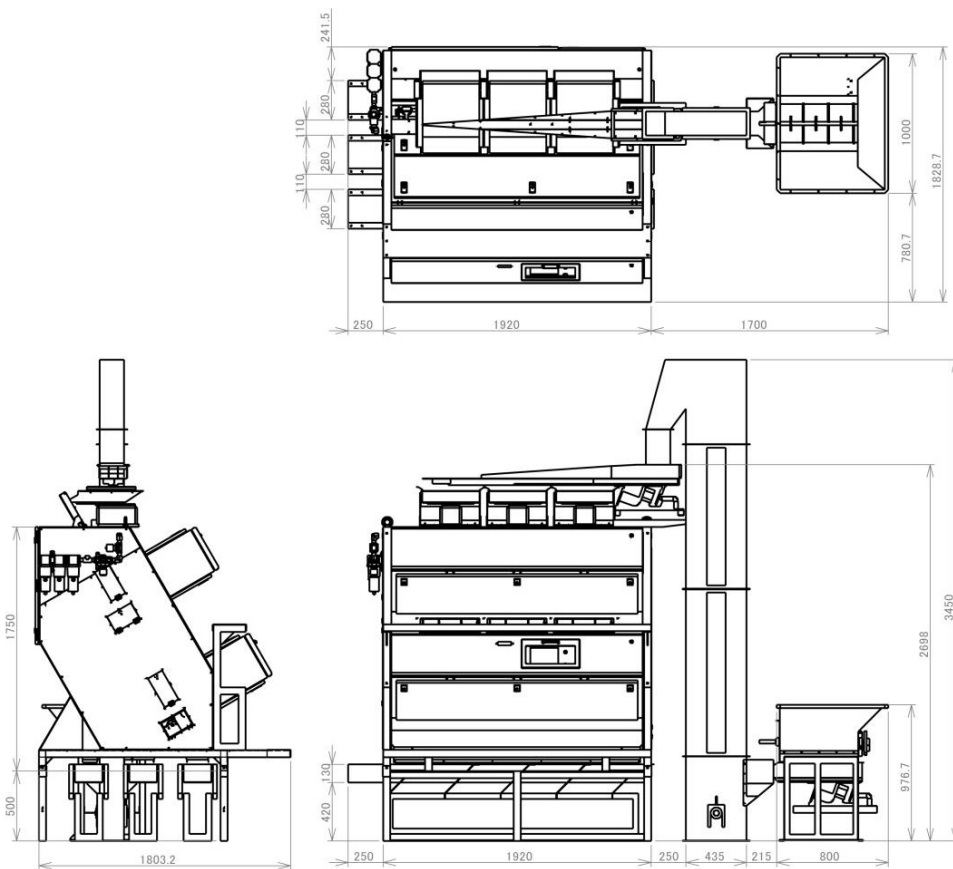


■ 14 inch Touch Screen

Specification

MODEL	UDR-1-4EE-6F UDR-1-4EES-6F	UDR-2-4EE-6F UDR-2-4EES-6F	UDR-3-4EE-6F UDR-3-4EES-6F	UDR-4-4EE-6F UDR-4-4EES-6F
Depth [mm]	1829			
Width[mm]	1220	1500	1920	2570
Hight [mm]	3450	3450	3450	3450
Weight[kg]	1150	1450	1800	2100
Chute Width	430	860	1290	1720
Number of Ejector in 1st stage	86	172	258	344
Number of Ejector in 2nd stage	86	172	258	344
Number of Color camera in both stages	2	4	6	8
Number of Infra Red camera(1st stage only)	1 (UDR-1-4EES)	2 (UDR-2-4EES)	3 (UDR-3-4EES)	4 (UDR-4-4EES)
Air Requirement [Litre/min]	840	1600	2500	4000
Electric Requirement (1 phase 220V)	3.0kW	5.0kW	7.0kW	9.6kW
Electric Requirement (3 phase 380V)	0.9kW	1.2kW	1.2kW	1.8kW
Through Put (average) [kg/h]	180	375	560	750

* Through Put (Average) depends on the Contamination of Stalk/Foreign Material and Bulk Density.



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