



SEA.IQ

OPTICAL SORTING





Global Pioneer in Optical Sorting.

To find the right optical sorter for your business, you need a partner you can rely on. One who understands your biggest sorting challenge, allows you to put their solutions to the test and offers expert advice. You need support at every stage of the selection of the solution, installation and after-sales process. Cimbria has been helping customers succeed for more than 75 years. With a wide range of technologically advanced and user-friendly optical sorters to sort seeds, grains, food commodities and industrial products, you can feel confident you will get the right system tailored to your business.

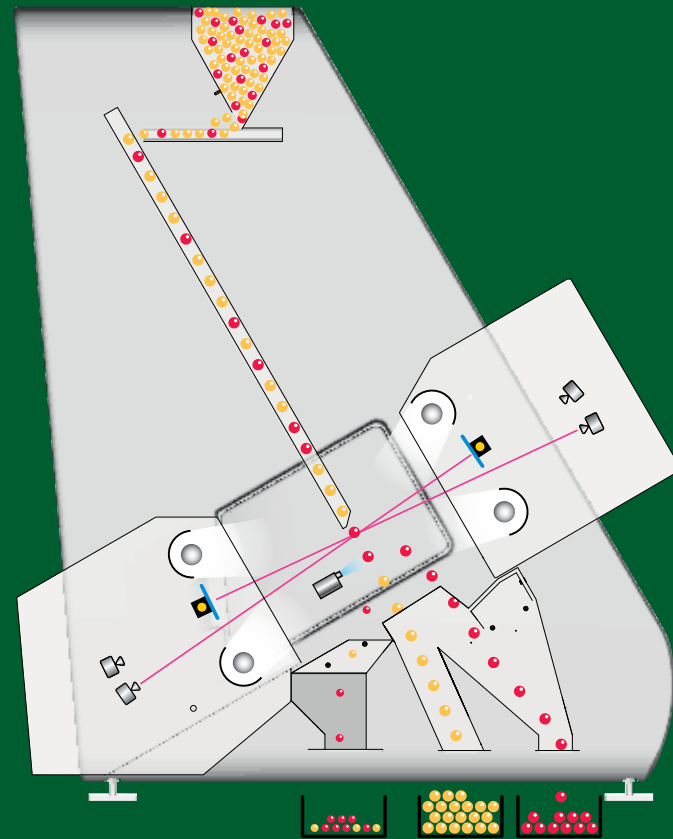
You & IQ.

You are committed to delivering the highest quality for your customers. The SEA.IQ optical sorter can help you deliver. The advanced design gives you the highest precision with less rework. The all-new optical system integrates RGB, NIR, and SWIR or UV into each set of cameras. They work in multi-frequency to match multiple data collected during tens of thousands of scans per second. SEA.IQ was created with your business in mind. You can customize the perfect combination to maximize quality and efficiency for your application.



Key Features.

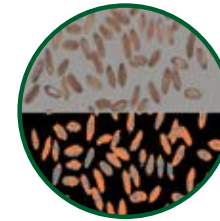
- RGB full-colour camera with integrated double-frequency NIR as standard configuration
- Optional configuration: Multiple vision packages SWIR/ INGAAS and UV to combine to the entry model with full-colour RGB+ double-frequency NIR
- From 1 to 6 chutes with split options
- From 63 to 96 ejectors per chute depending on the application
- Display 21,5 inches, Windows 10 IOT
- Available configurations for multiple passes and reverse sorting



Smart design.

- Load-bearing structure to handle additional loading hoppers
- Dust-proof pressurization system protects the strategic parts of the electronic and optical system
- The camera's heat reduction system maintains the perfect operational temperature
- Choose the right style for your operation. Standard RAL 9003 colour or request optional customized colours
- Automatic and adjustable cleaning cycles ensure the best conditions for the inspection system
- Designed for easy maintenance

Settings.



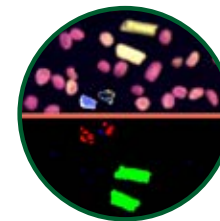
SETTING THE SORTING PARAMETERS

SEA.IQ recognizes nearly all defects and imperfections. You set the parameters and the machine uses your ideal combination of vision systems (RGB+NIR, with SWIR, InGaAS, UV) to compare the information and deliver successful results.



SETTING THE SHAPE

SEA.IQ can detect the most imperceptible and slightest colour shades - even on tiny areas on very small surfaces. It can separate elements based on their geometry thanks to the integrated shape sizing function.



SETTING TO SEE BEYOND THE VISIBLE

SEA.IQ is equipped with multifrequency infrared technology that allows perfect recognition of distinguishable contaminating objects thanks to their diversity of matter.



SCAN THE QR
TO SET UP
YOUR TRIAL

PUT US TO THE TEST

Send us your toughest sorting challenge. Cimbria's multiple testing centers are available for customizable lab trials worldwide. Let our experts recommend the best solution.



Grains



Seeds



Food



Recycling

Multiple Configurations. Maximum Flexibility.

CERTIFICATIONS



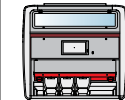

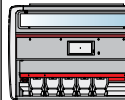
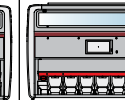
- CE conformity certificate.
- 2006/42/CE on machinery safety.
- 2014/30/CE on Electromagnetic Compatibility.
- Compliant with UL and CSA.
- Food-grade MOCA version available as option.
- ATEX standards Certificate available as option.

SEA.IQ can be configured to meet your exact needs. And our global team of experts is available for support at every step. Multiple feeding chute configurations provide maximum versatility, while the smooth flow reduces breakage. The chute reverse function allows you to operate a variety of products within the same system.

The best user experience from the new HMI.

Simplified screens and improved graphics makes it easy for your team to set dedicated programs. Quickly create efficient programs using your password and retrieve data remotely to optimize performance. The customizable home page makes sure your machine is set for the way you operate.

MACHINE TECHNICAL DATA

		1	2	3	4	5	6	
								
No. of vibrating feeders/chutes		1	2	3	4	5	6	
No. of cameras (front+back)		2-4	4-8	6-12	8-16	10-20	12-24	
No. ejectors/chutes (5 mm pitch)		63	126	189	252	315	378	
No. ejectors/chutes (3.3 mm pitch)		96	192	288	384	480	576	
Compressed air consumption (max value at 6 bar)	l/min	320	640	960	1280	1600	1920	
	m ³ /h	19	38	58	77	96	115	
Compressed air hose	Ø [inch]	1"						
Power supply/frequency	V/Hz	230V - 50/60 Hz						
Power absorption 5 mm pitch (max. value)	A	4	5,9	9,8	11,7	14,6	16,5	
Power consumption 5 mm pitch (max. value)	kVA	0,9	1,3	2,1	2,5	3,2	3,6	
Power absorption 3.3 mm pitch (max. value)	A	4,3	6,6	10,9	13,1	16,4	18,7	
Power consumption 3.3 mm pitch (max. value)	kVA	1	1,5	2,3	2,8	3,6	4	
Dimensions	Length	mm / inch	1550 / 59,45	1550 / 59,45	2220 / 87,40	2220 / 87,40	2900 / 114	2900 / 114
	Width	mm / inch	1850 / 72,84					
	Height	mm / inch	2150 / 84,65					
Weight	kg	970	1050	1220	1300	1520	1600	
	lbs	2138	2315	2690	2866	3351	3527	



PLEASE DOWNLOAD THE DATA SHEET FOR MORE TECHNICAL INFORMATION.



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