



# SEA.IQ

OPTICAL SORTING



# You & IQ

The Cimbria SEA.IQ Optical Sorter uses the most advanced technology to sort with unmatched precision micro sized foreign bodies, and defects of products which cannot be distinguished by human eyes. The all-new optical system features a set of cameras with integrated RGB, NIR, and SWIR or UV, working multifrequency to match multiple data collected during tens of thousands of



scans per second. The result is an extreme sorting performance which is achieved even on standard configurations. No matter what your business is, Cimbria is the expert at your side make you win the competition game in the most challenging applications.





# You & Quality



## SETTING THE SORTING PARAMETERS

SEA.IQ has been designed to recognize all defects and imperfections. Gathered by the ideal combination of vision systems (RGB+NIR with SWIR, InGaAS, UV) applied to the sorter, the information is filtered by the program to allow comparison with the parameters established by the operator. Thus, was born the formula that allows the ideal selection to the needs of the case.



## SETTING THE SHAPE

SEA.IQ ensures the detection of the most imperceptible thinnest colour shades even of tiny areas on very small surfaces. The separation of elements based on their geometry is possible thanks to the shape sizing integrated function.



## SEE BEYOND VISIBLE

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



Grains



Seeds



Recycling



Food

## 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.



SCAN YOUR QR  
CODE TO SET UP  
YOUR TRIAL

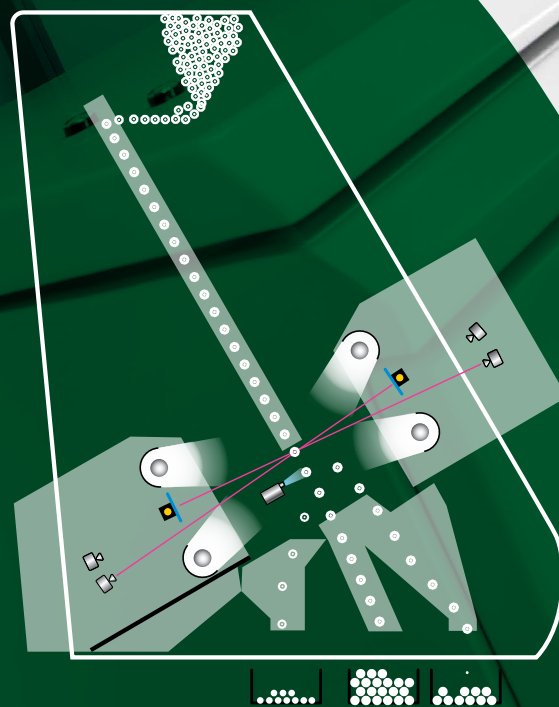




# You & Performance

## Smart Design.

- Standard configuration: RGB full-colour camera with integrated double-frequency NIR
- 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



- Load-bearing structure to prop up additional loading hoppers
- Dust-proof pressurization system protects the strategic parts of the electronic and optical system
- Cameras heat reduction system keeps constant the perfect operational temperature
- Standard colour RAL 9003. Optional colours upon request
- Stainless-Steel version upon request
- Automatic and adjustable cleaning cycles keeps the inspection system always at best vision conditions
- Mechanics developed to allow very easy maintenance



# You & Experience

## Top User Experience Thanks to the New HMI.

Simplified screens, increased visibility and improved graphics make it easy for the user to set dedicated programs. You can easily create efficient programs by using your password, retrieving data remotely to optimize performances. The customizable home screen makes sure your machine is set for the way you operate.






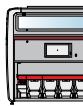


# Multiple Configurations. Maximum Flexibility.



PLEASE DOWNLOAD  
THE DATA SHEET FOR  
MORE TECHNICAL  
INFORMATION.

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.

## MACHINE TECHNICAL DATA

			1	2	3	4	5	6
								
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
Compressed air consumption (max value at 6 bar)		l/min	320	640	960	1280	1600	1920
		m³/h	19	38	58	77	96	115
Power supply/frequency		V/Hz	230V - 50/60 Hz					
Power absorption (A) Power consumption (kVA)	5 mm pitch (max. value)	A - kVA	4 - 0,9	5,9 - 1,3	9,8 - 2,1	11,7 - 2,5	14,6 - 3,2	16,5 - 3,6
	3,3 mm pitch (max. value)	A	4,3 - 1	6,6 - 1,5	10,9 - 2,3	13,1 - 2,8	16,4 - 3,6	18,7 - 4

## 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



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.



**Cimbria.com**

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