

**TIME FOR A
NEW VISION**



3U Vision srl

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THE LEADER, IN ALL ASPECTS:

A 4 wavelength, multi-spectral system as standard with combined RGB and IR in a single 4K sensor:

This innovative feature produces a totally aligned view. This feature is a valuable advantage when detecting defects in similar coloured products which respond differently to infrared, such as foreign bodies, inorganic defects, etc. This single camera is a considerable cost saving when compared to the market standard of requiring two cameras.



High resolution, multispectral, 4 wavelength cameras SWIR (1024 pixel):

These cameras achieve previously unattainable results in the recognizing of polymers, selecting of shell and foreign bodies in dried fruits, and also in detecting chemical differences not visible to the human eye.

Simultaneous use of RGB, SWIR and IR optical systems:

Having up to 8 frequencies available, while the market standard for this type of sorter is normally no more than 4 frequencies.

Flat spectrum LED (to reproduce the natural sunlight spectrum):

State of the art full spectrum LED, without the low light areas typical of standard white LED. This makes it possible to detect even the slightest colour variations.



Dual 15" displays: Two 15" touch screens, which continuously display the key information necessary to monitor the machine effectively.

Smart, custom designed cameras, comprising hardware and software made in Italy, which incorporate an integrated elaboration and analysis system.



MODEL	Fx1	Fx2	Fx3	Fx4	Fx5	Fx6
CHUTES	1	2	3	4	5	6
EJECTOR	96	192	288	384	480	576
WIDTH (MM)	1530	1530	1855	2180	2510	2830
HEIGHT (MM)	2075	2075	2075	2075	2075	2075
DEPTH (MM)	1894	1894	1894	1894	1894	1894
WEIGHT (KG)	1000	1200	1350	1500	1700	1900
POWER (KW)	1,4	1,5	1,7	1,8	1,9	2
AIR CONS. (l/sec)	9	17	26,3	35,5	44,2	54,8



State of the art ejectors @ 3.2mm pitch: Custom designed and specified to achieve maximum sustained velocity while their compact design almost doubles the number of ejector valves in each chute. This feature requires less compressed air yet increases production capacity and reduces the amount of good product being rejected.

RISE-UP system: This feature makes the ejector bank adjustable which allows one to locate the ejectors close to the product stream, almost half the distance compared to other sorters on the market. This reduces errors normally caused by the uneven fall speed of the product being sorted.

Multi wavelength LED with focusing lens: This feature focuses the light only where its desired and achieves high illumination at a low consumption.



System of signal equalization: To obtain the same results in all chutes of the machine.

Automatic air pressure regulator: The regulator automatically adjusts the pressure in the machine based on the product selected. This allows the operator to adjust the air consumption accurately to minimize good product being rejected.

Morphological analysis of the product: Extrapolating statistics of products such as average width, average height, percentage of wreckage, etc.

Automatic control and equalization of vibrator speed: Necessary to obtain a deep and uniform stream of product in all the channels.

User friendly programming system: The software has been developed so that creating or modifying recipes does not require a qualified technician.

IOT ready, totally compatible with IOT 4.0: This enables the exchange of information related to estimated throughput, estimated reject quantity, number of ejections, morphological product features, etc.

Chutes: Coated with silver ion treatment for improving smoothness and sanitation.

Integrated Remote-Service system: In order to quickly assist the operator in real time, and avoiding the need for on-site intervention, saving the expense of a technician, regardless of your location.



FENIX



The first 4 colour, single camera, optical sorter.
Completely Made in Italy. It sees more. It makes more.

A NEW VISION:

3U Vision Srl is a Hi-Tech company owned and managed by Italians, headquartered in Imola, Italy. It was launched in 2019 by Antonio Uzzo. Antonio Uzzo, a well-known person in vision system and sorter industries, was originally the CEO of SEA Srl. When SEA was acquired by Cimbria, Antonio joined Cimbria as a director, and during this period, they achieved extraordinary results. In 2018, Antonio, together with his two sons, left Cimbria and started 3U Vision.



The ongoing and continuous research of innovative technology led Antonio and his sons to put together a team of excellence and starting 3U Vision.

Their aim was to once again, redefine the standard of quality in this field.

The essence of our mission is to produce optical sorters, designed and built with Italian hardware and software, which achieve the results of our research and innovation. In order to resolve the most complex sorting



issues and to achieve the highest quality equipment, we have a research agreement with the Bio-photonics Department of La Sapienza University. We also collaborate closely with the G. Ciamician Chemistry Department at the University of Bologna, and several leading companies in the vision systems sector.



The FENIX optical sorter is the result of 40 years' experience in vision systems, using the latest technology available, which in some cases has been exclusively developed by 3U Vision.

Dimensions and Technical Specifications indicated above are approximate only and subject to change. 3U Vision Srl reserves the right to modify these specifications at any time without prior notice.

**3U Vision;
Completely new,
but with
40 years of
experience.**



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