

IT'S TIME TO  
CHANGE  
VISION



**3U Vision srl**

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# THE FIRST, AT ALL:

**4 wavelengths multispectral system as standard equipment, RGB and IR in the same 4K sensor.** This innovative solution allows a **completely aligned view**. A real improvement detecting defects in similar colours products but with different answers to infrared as **foreign bodies, inorganic defects, etc.** Furthermore, it allows a **considerable cost reduction** compared to the market standard with the use of two different cameras.



**High resolution multispectral cameras SWIR (1024 pixel), up to 4 wavelengths.** These cameras allow unreachable results until now, **recognising polymers**, selecting shells and **foreign bodies in dried fruits** and where there are chemical differences even if not visible by human eyes.

**Simultaneous use of RGB, SWIR and IR optical systems: up to 8 frequencies** (the standard on the market for these sorters is usually not more than 4 frequencies).

**Flat spectrum led (they reproduce the natural sunlight spectrum).** State of the art full spectrum led, **without low light areas** typical of the standard white led. They allow to **detect all the slightest colour shades**.



**Dual display 15":** all the useful information for machine monitor, always visible thanks to the **two 15" touchscreen displays**.

**Smart custom cameras** with integrated **elaboration and analysis system**, hardware and software completely **made in Italy**.

MODEL	Fx1	Fx2	Fx3	Fx4	Fx5	Fx6	Fx8
CHUTES	1	2	3	4	5	6	8
EJECTOR	96	192	288	384	480	576	768
WIDTH (MM)	1210	1530	1855	2180	2510	2830	4143
HEIGHT (MM)	2075	2075	2075	2075	2075	2075	2075
DEPTH (MM)	1894	1894	1894	1894	1894	1894	1894
WEIGHT (KG)	1000	1200	1350	1500	1700	1900	2200
POWER (KW)	1,4	1,5	1,7	1,8	1,9	2	2,5
AIR CONS. (l/sec)	9	17	26,3	35,5	44,2	54,8	64,1



**State of the art Ev, 3.2mm pitch:** with custom design and specification, can **reach top values in duration and speed**, practically double the number of electrovalves in each chute. This to **increase production speed**, reducing the quantity of good products wrongly expelled (**reject products more concentrated**) and allowing to reduce air consumption.

**RISE-UP system:** it allows to move the ejectors closer to the inspection line; halved distance **compared to the other sorters** on the market. It **reduces errors** due to different products' fall speeds.

**Multi wavelengths led with focusing lens,** it focuses the light only on the right points and allows **high illumination and low consumption**.



**System of signals equalization,** to obtain the **same results in each chute** of the machine.

**Automatic air pressure regulator:** it regulates automatically the pressure of the machine according to the selected product and it allows to **enhance selection, reducing** quantity of **reject and air consumption**.

**Morphological analysis of the product:** it extrapolates **statistics of products** as average **width, average height, percentage of wreckage**, etc.

**Automatic control and equalization of the vibrators speed,** in order to have **flat and uniform flows in all channels**.

**Easy programming system:** the software has been developed to create or modify recipes **without the presence of a qualified technician**.

**IOT ready, completely compatible with IOT 4.0:** it allows the **exchange of information** related to estimated **throughput, estimated reject quantity, number of ejections, morphological product features**, etc..

**Ramps with silver ion treatment** for a **better smoothness and hygiene**.

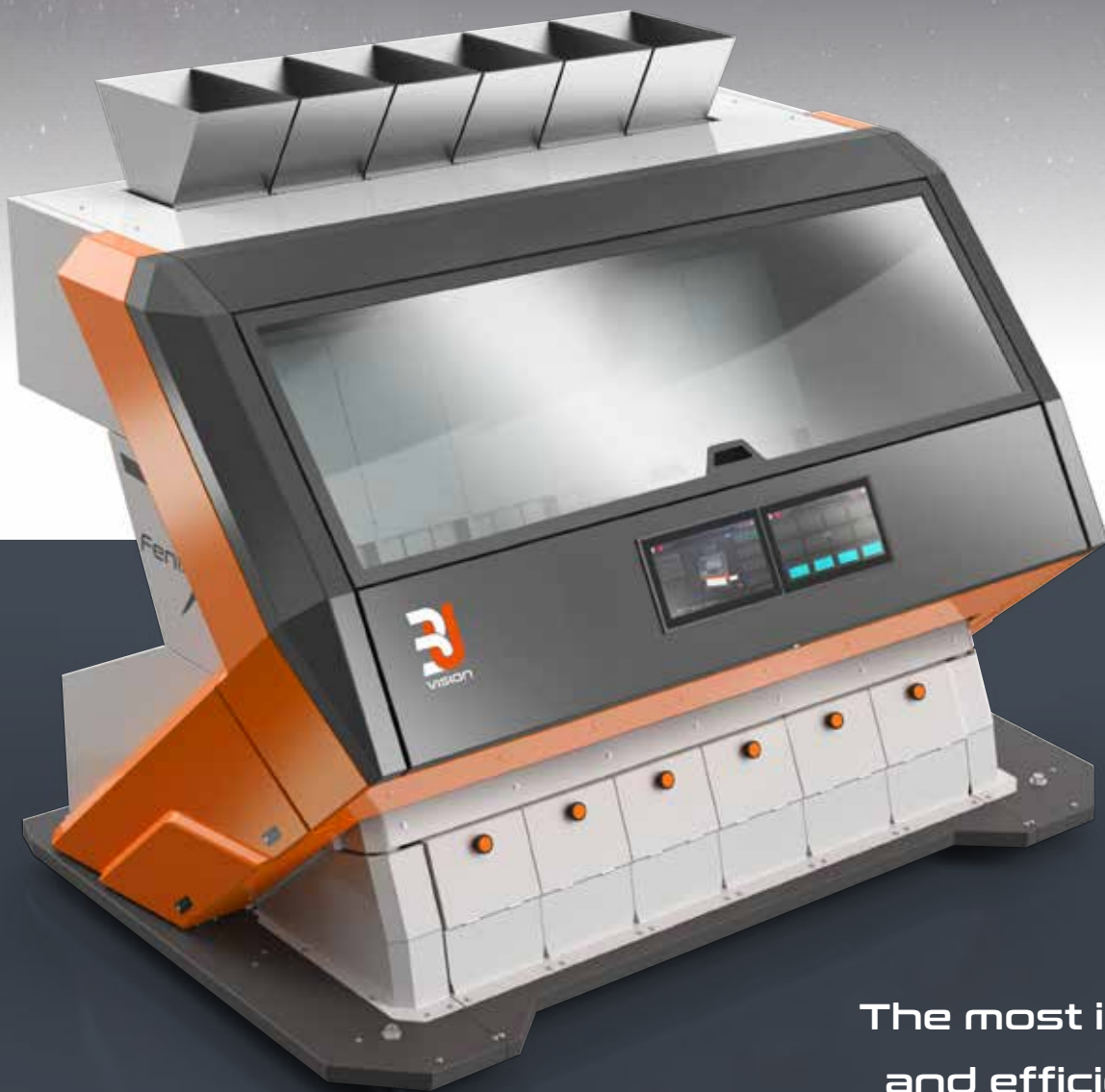
**Integrated remote-service system** in order to help you in **real time**, quickly and **without on-site intervention** costs of a technician, **everywhere you are**.





# FENIX

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



The most innovative  
and efficient sorter  
on the market.

# A NEW VISION:

**3U Vision** Srl is an Hi Tech company with a **completely Italian** management and ownership, headquartered in Imola.

**Was born in 2019** thanks to **Antonio Uzzo**, a reference in vision systems and sorters branch, he was the CEO of SEA Srl before and Cimbria Srl after until 2018, with **extraordinary results**.



The constant research of innovative technological solutions led us in assembling a **team of excellence** and in founding **3U Vision**, with the aim to redefine the qualitative standards once again.

For our next generation of optical sorters, we

take advantage of all made in Italy hardware and software parts, with a special care to the excellences of our area

**Research and innovation** are the essence of our mission: we have established a research contract with the Biophotonics Department of "La Sapienza" University, we collaborate with Chemical



Department "G. Ciamician" of University of Bologna and with some of the **leader companies of vision system sector**.

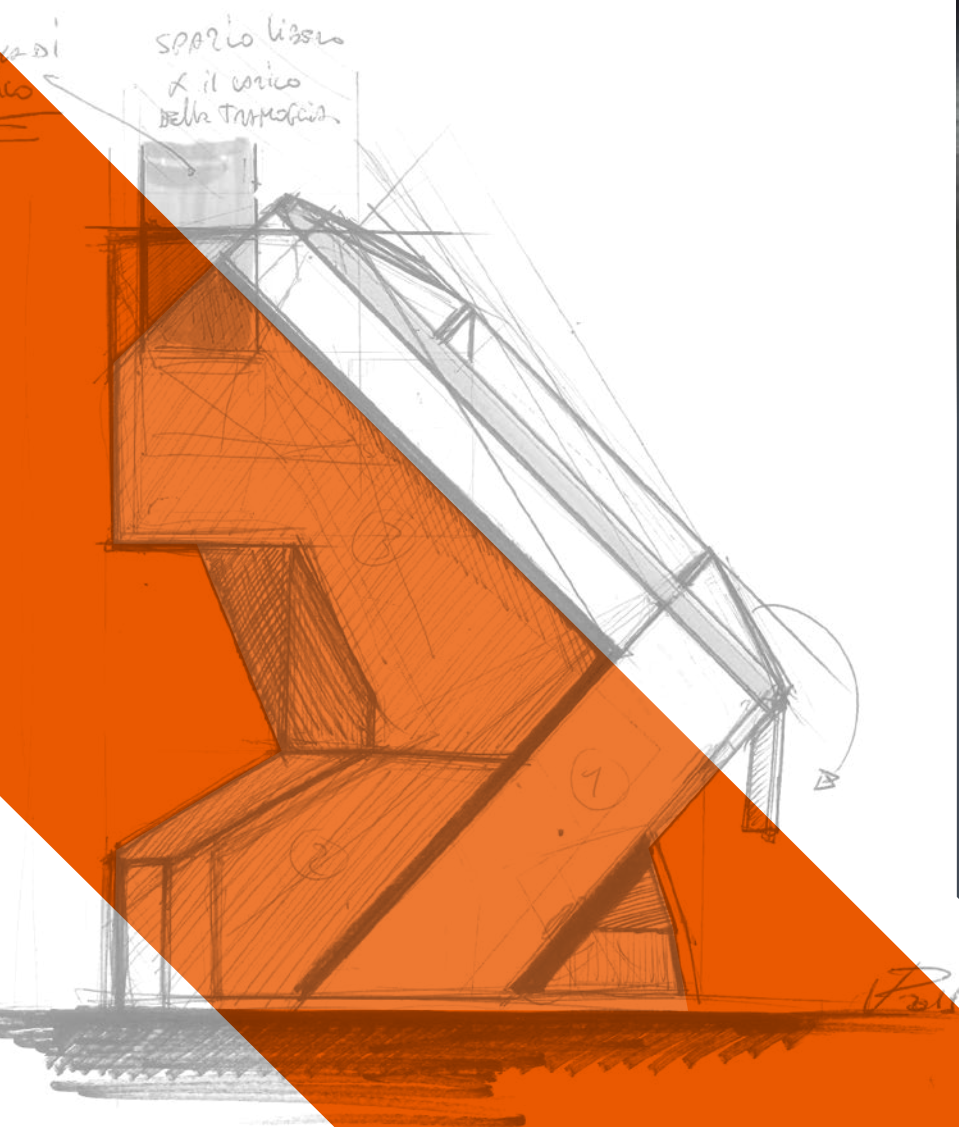
The purpose is to resolve the most **complex sorting issues** to reach the best quality.

**FENIX optical sorter is the combination of 40 years experience in vision systems and the latest technologies, in some cases developed exclusively by 3U Vision.**

The dimensions and technical specifications above-mentioned are only approximate and subject to alterations. 3U Vision Srl reserves the right to modify these specifications at any time without notice.



**3U Vision,  
all new, except  
40 years  
of experience.**



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