

COLOR VISION PATENTED

MAVIX REMOTE MANAGING

4.0 INDUSTRY

LINUX

FUTURE
HERE!
EXTREME TECHNOLOGY
SMART SOLUTIONS

ARTIFICIAL INTELLIGENCE

STATISTICS REPORTS

DATABASE INTEGRATION

UTP VISION
VISUAL INSPECTION

PRODUCT RANGE OVERVIEW

DIMENSIONAL AND SURFACE DEFECTS CONTROL

MiniMatliX, MatliX, PhoeniX and ScrappiX are automatic visual inspection machines for high precision control of small and mid-sized gaskets, seals and generic parts made of rubber, plastic, PTFE and other materials. BigX is specifically designed to inspect large O-rings, while SqueezeX can detect nearly invisible closed cuts in O-rings and generic rubber parts.



MiniMatliX

VERY SMALL GENERIC PARTS

version	type	field of view (mm)	thickness (mm)	material
-	7	1.2 - 7	0.26 - 1	rubber plastic PTFE metal
	12	1.8 - 12	0.26 - 1	
	20	2.5 - 20	0.5 - 3	



MatliX

SMALL GENERIC PARTS

version	type	field of view (mm)	thickness (mm)	material
DS	35	3 - 35	0.9 - 9/25	rubber plastic PTFE metal
	50	3 - 50	0.9 - 9/25	
OS	35	3 - 35	0.9 - 9/25	
	70	3 - 70	0.9 - 9/25	



PhoeniX

SMALL AND MID-SIZED GENERIC PARTS

version	type	field of view (mm)	thickness (mm)	material
-	50	4 - 50	0.9 - 9/25	rubber plastic PTFE metal



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ScrappiX

SMALL AND MID-SIZED GENERIC PARTS

version	type	field of view (mm)	thickness (mm)	material
-	35	4 - 35	0.9 - 9	rubber plastic PTFE metal
	70	4 - 70	0.9 - 9	
	90	20 - 90	0.9 - 9	



BigX

BIG SIZE O-RINGS

version	Type	field of view (mm)	thickness (mm)	material
-	150	70 - 150	1.50 - 5.33	rubber
	200	70 - 200	1.50 - 5.33	



SqueezeX

TO DETECT CLOSED CUTS

version	type	field of view (mm)	thickness (mm)	material
-	20	3 - 20	1 - 5	rubber

DIMENSIONAL SERIES

The Kalix series includes visual inspection machines for automatic non-contact measurement of articles of any shape.



WINDOWS



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Kalix

DIMENSIONAL CONTROL

version	type	field of view (mm)	thickness (mm)	material
-	40	51x40	2	any kind of material
	70	Ø 72	10	
	155	Ø 160	10	
Dual Mag	Base FOV	Ø 160	10	
	Reduced FOV	Ø 27	1	

Kalix 500

DIMENSIONAL CONTROL

version	type	field of view (mm)	thickness (mm)	material
-	-	Ø 500	10	any kind of material

PHARMA DIVISION

Dimensional and surface control for pharmaceutical and medical applications: aluminium caps, spray valves, plungers, stoppers and needle shields.



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Pharma

PHARMA AND MEDICAL PACKAGING

version	type	field of view (mm)	thickness (mm)	parts
-	Pharma	3 - 35	0.9 - 22	plungers stoppers needle shields
-	Pharma Cap	15 - 25	0.9 - 22	aluminium caps
-	Pharma Valve	15 - 25	0.9 - 22	spray valves

SPECIAL DIVISION

LoringX, RollinX, ProfiliX and SmartMatliX machines are tailor-made for very specific vision inspection tasks. SmartMatliX is the basic version of the MatliX machine. It offers great value for money and it can be remotely upgraded with the new Artificial Intelligence option at any time.



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LoringX

LARGE O-RINGS

version	type	diameter (mm)	cross section (mm)	material
-	-	250 - ∞	1.78*-12	rubber

*as a function of diameter



RollinX

SPHERES

version	type	sphere diameter (mm)	material
-	-	2 - 10	any kind of material



ProfiliX

PROFILES

version	type	dimension of section (mm)	material
-	-	1 - 12	rubber



SmartMatliX

GENERIC SMALL PIECES

version	type	field of view (mm)	thickness (mm)	material
-	35	3 - 35	0.9 - 5	rubber plastic PTFE metal
	50	3 - 50	0.9 - 5	



OPZIONALE



What makes UTPVision's inspection machines unique is the innovative **Artificial Intelligence software (AIs)**, which twists the traditional image processing methods based on manually set thresholds. With AIs, the operator just needs to collect a series of significant samples that well represent the range of defects to be found. Thanks to the SVL (SuperVised Learning) procedure, the machine can be quickly trained to discriminate and classify defects according to the user's needs.

This new approach based on Artificial Intelligence has been proven more efficient because it is independent of the environment and process variables that require continuous threshold adjustments. With AIs the machine is able to identify "objects" (with defined shapes) and / or surface defects (with undefined shapes) just by looking at sample images.



MaviX is the dedicated software for monitoring and managing automatic and manual visual inspection systems, specifically designed for use in the rubber-goods sector. The MaviX suite consists of two independent modules: **MaviX-A** for automatic sorting operations and **MaviX-M** for those of manual nature. MaviX-A is a perfect solution to streamline automatic visual inspection machines in order to benefit from the advantages brought about by **Industry 4.0**

The technical data and images contained herein are indicative only.
UTPVision reserves the right to modify its products at any time without prior notice.



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