

E2M COUTH[®]

VISION SYSTEMS



Technical sheet

VISIOCRIMPING

360° crimping inspector for vials



**Up to 21,000
vials per hour**



**Equipped with
VisioInspect 2.0**



**Contactless
inspection**



**360° total
inspection**

VISIOCRIMPING

VISIOCRIMPING is an automated inspection solution that uses computer vision technology and advanced algorithms to identify defects in vials. These defects can include crimping, scratches, absence/presence of stopper, identification, and improper placement of operculum, capsule defects, and verification of batch marks.

In a fast and easy way, this system sets the parameters and characteristics that define correct vials. These settings are used later on to detect defective vials.

VISIOCRIMPING is equipped with the VisioInspect 2.0, vision software, developed by E2M COUTH®, which can verify all defects, regardless of the production line's speed. The inspection platform allows users to configure formats effectively and easily.



Advantages

- Pharmacy or veterinarian vial quality control
- High-performance production, up to 21,000 BPH..
- Two-colour directional lighting to highlight and detect defects like slight scratches on the capsule
- Easy installation on pre-existing belt.
- Robust, compact, and resistant design.
- Fast and easy format and product changes.
- Does not require maintenance.

Features

- Stainless steel enclosure.
- Container position control with sensor and encoder.
- Remote control and remote diagnosis via the Internet.
- Parameters and tolerances allowed for each format.
- Production statistics in real time.
- Automatic height adjustment.
- Software able to manage rejection and external inspection signals.
- Captures image 100% perimeter of container.

Containers supported

Vials from 10ml to 500ml

Typical inspections

Crimping

- Absence
- Fissure
- Bent/damaged



Operculum

- Broken
- Absence
- Raised/tilted



Capsule

- Breakage
- Absence

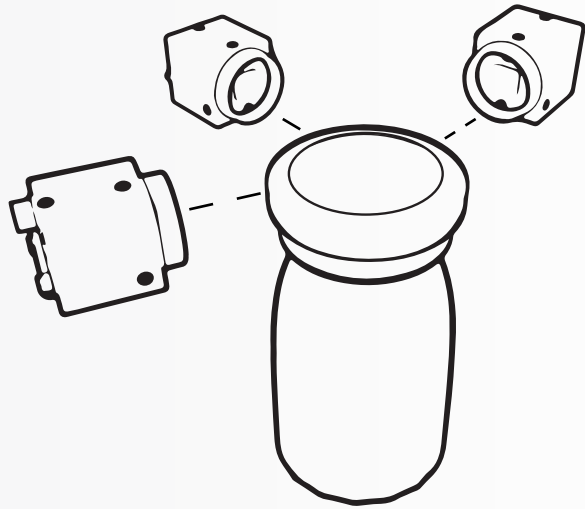
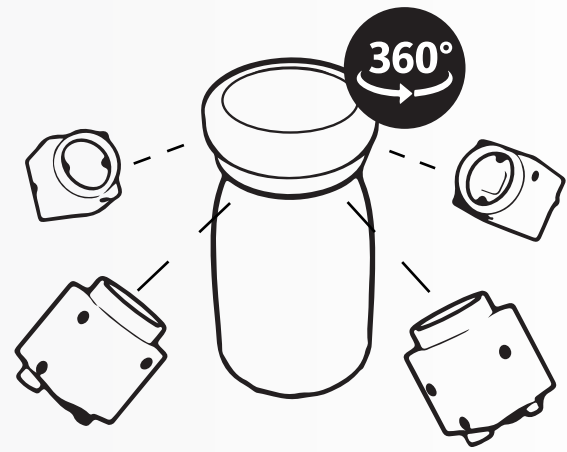


Mark

- Absence
- Blurry/excess ink
- Correct printing (character verification)



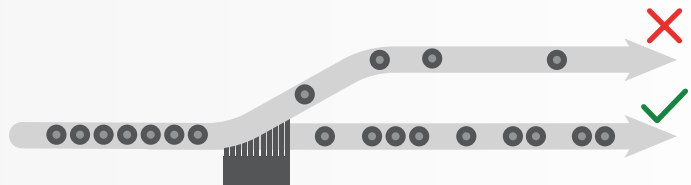
Cameras



Additional options

Rejection systems

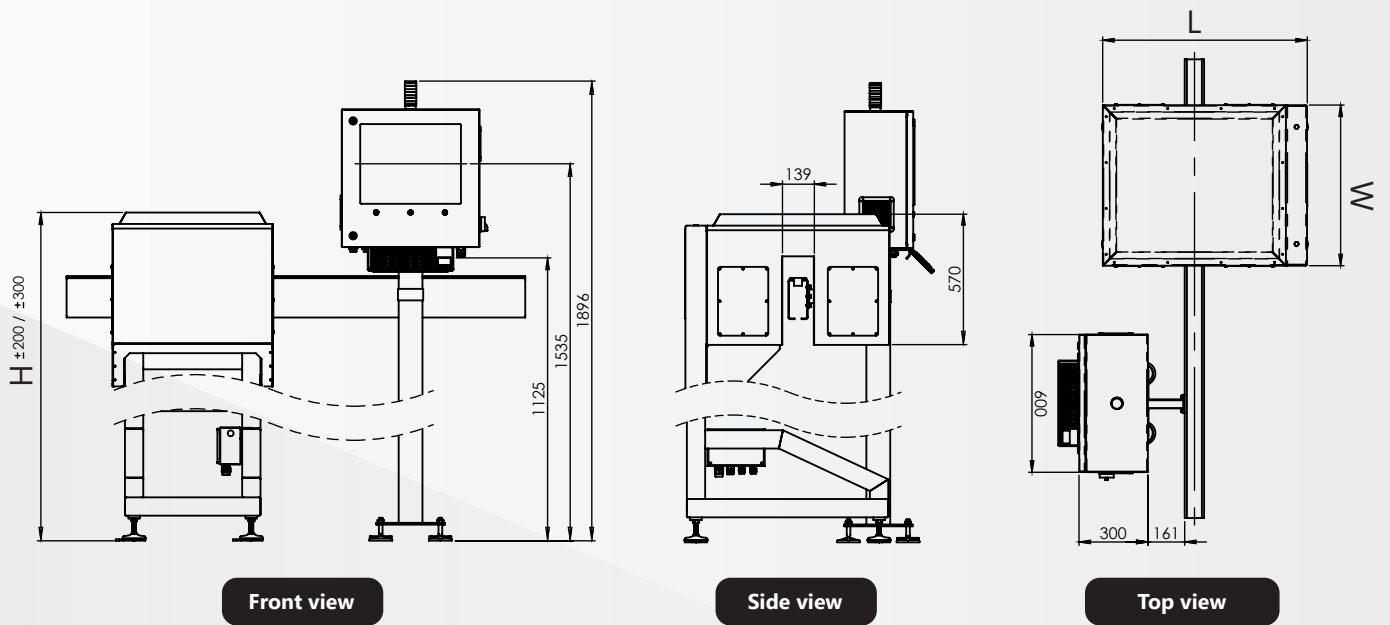
- Blow or push Multistep rejection devices
- 3m belt with AISI 304 finish and control with built-in variator in control cabinet
- Verification of expulsion and non-expulsion



Side belt separator

A800400201 Data integrity

Regulation CFR21 Part 11



VISIOCRIMPING

Description	VisioCrimping 7C
Part number	A301500100
Camera	High resolution monochrome and colour
Software	VisioInspect 2.0
Lighting	LED perimeter lighting
Extra lighting	--
IT system	Intel processor Windows IOT interface
Monitor	Monitor with 17" or 21" touch screen
Communications	USB/ Ethernet TCP / Digital 4i/4o
Maximum production	21,000 bph
Standard protection	IP65
Construction material	Stainless steel 304
Dimensions	L890 X W700 X H1300
Encoder	HTL 2048 pulses per revolution
Power supply	230VAC or 110 VAC 1 KVA
Perimeter field of vision closure and stopper (mm)	87mm x 104mm
Side field of vision cap	83mm x 69mm
OCR/OCV fields of vision	95mm x 79mm
Mechanical restrictions	Maximum belt width 80 mm
Vertical height regulation available	A301500100

E2M COUTH VISION SYSTEMS S.L.U

Pau Vilà i Dinarès, 10. 08192
Sant Quirze del Vallès.
Barcelona - Spain

+34 937 208 540

comercial@e2mcouth.com

www.e2mcouth.com

E2M COUTH[®]

VISION SYSTEMS



Technical Details

VISIOCAP

Cap inspection system.



**Up to 90,000
bottles per hour**



**Equipped with
VisioInspect 2.0**



**Contactless
inspection**



**3 views and 6 height
control profiles**

VISIOCAP

VISIOCAP is an inspection device focused on guaranteeing capping quality. By using **up to 3 cameras focused on the cap zone** the system can detect the slightest defect.

In a fast and easy way, this system sets the parameters and characteristics that define containers correctly. These settings are used later on to detect defective caps.

VISIOCAP is equipped with the **VisioInspect 2.0** vision software, developed by E2M COUTH®, which can verify all defects, regardless of the production line's speed.

The inspection platform allows the user to perform effective and straightforward format configurations.



Advantages

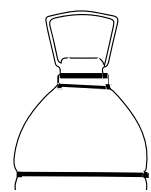
- High-performance production, up to 90,000 BPH.
- Exclusive tools to control each kind of cap.
- Easy installation on existing belt or in the filler
- Fast and easy format change.
- Robust, compact, and resistant design.
- Minimum maintenance.
- Scalable configuration
- High precision (under false rejection conditions)
- MES or ERP connectivity
- Real-time inspection behaviour data and graphs.
- Module with inspection reports and fill/capping monitoring graphs
- User level software configuration

Containers supported

Cap with crown and cage



Cap with handles



Threaded cap

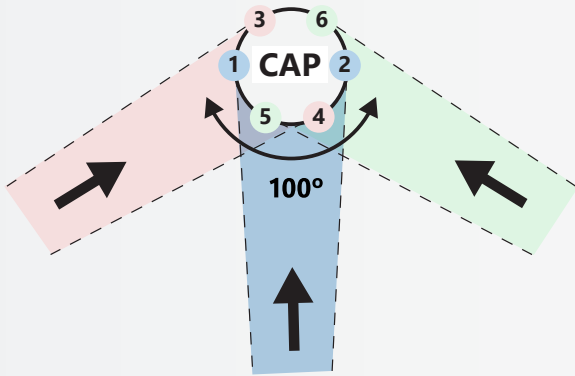


Pressure cap



Typical inspections

- Missing cap
- Cap height
- Plastic cap inclination
- Distance between washer and cap measured at 6 points
- Security seal detachment
- Fill level: objective, minimum and maximum



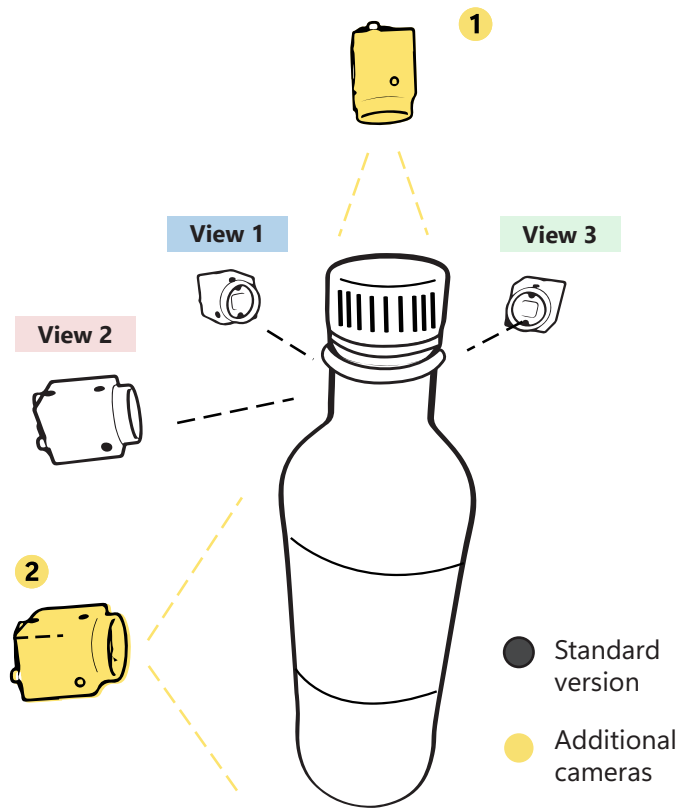
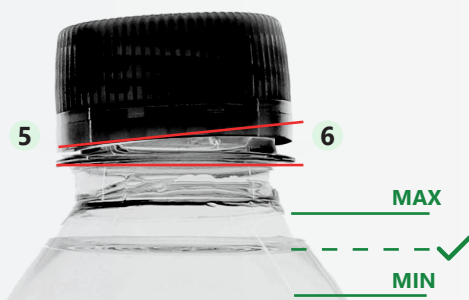
View 1 ✓



View 2 ✗



View 3 ✗



Additional options

Additional cameras

1 Additional upper cameras

- Presence and position of handle
- Presence of marking on cap
- Traceability
- Cap colour



2 Additional side camera

- Surrounding label control (*2) (presence and/or hanging)
- Laser or ink marking, traceability

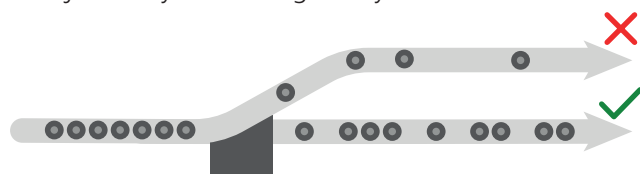


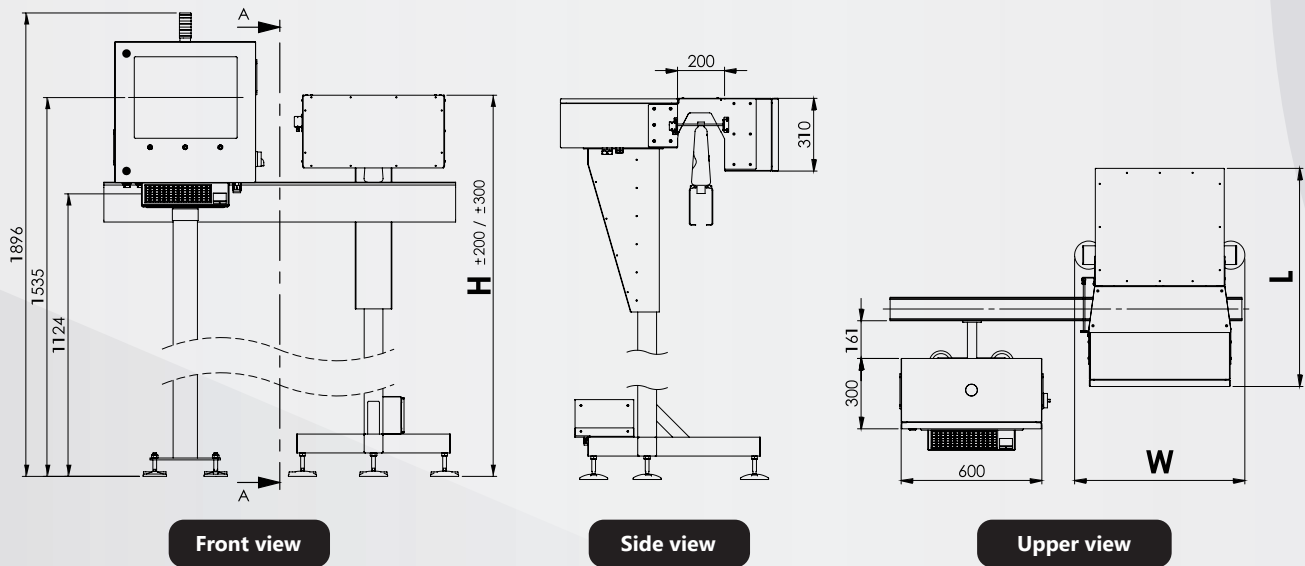
Software

- Monitoring of filling valves and capping.

Non-vision systems

- Rejection systems designed by E2M COUTH®





VISIOCAP

Description	VisioCap 2C	VisioCap 2C+1C LB	VisioCap 3C option
Part number	A300300200	A300300204	A300300202
Camera	High resolution monochrome and colour		
Software	VisioInspect 2		
Lighting	Adjustable LED backlighting.		
Optional lighting	-	-	Additional front light for cap colour control
IT system	Intel processor Windows IOT interface		
Monitor	Monitor with 17" or 21" touch screen		
Communications	USB/ Ethernet TCP / Digital 4i/4o		
Maximum production	90,000 BPH		
Standard protection	IP65		
Electricity supply	230 VAC or 110 VAC		
Construction materials	304 stainless steel		
Encoder	HTL 2048 pulses per revolution		
Visual field (mm)	1.3MP camera (standard) 99 x 74 mm (option) 146 x 109 mm	1.3MP camera LB: 290 x 212 mm	1.3MP camera 139 x 104 mm
Mechanical restrictions	Ømax= 180 mm Max transport section = 180 mm		
Vertical adjustment at available height	200/300mm		
Dimensions	L930 X W725 X H1645	L890 X W725 X H1820	L930 X W725 X H1645

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