

360° 罐子检测

360 度检测非常准确可靠,已被证实的用于混合检测系统,彩印&罐的标签.该系统集成了多个函数在一个系统中:

- 条形码阅读
- 二维数据矩阵码阅读
- 装饰检验



精度: 缺陷尺寸 ~2x2 – 3x3mm*
比率: 检测可靠性: 99-99,9%* 误剔除率: 0,1 – 0,01%*

速度: 60.000 - 90.000 瓶每小时 (婴幼儿奶粉 & 饮料) 在相应的输送带速度下.

包装类型: 罐子/瓶子/各种圆形产品 (婴幼儿奶粉, 饮料). 罐子检测最佳尺寸 $\varnothing 99\text{mm}$ 和 $\varnothing 127\text{mm}$ 和 <200mm 高度.

理想状态: 1 个罐子直径的空间.

认证 & 等级: CE 认证
低压认证质量
2006/95/EC
电磁适应性指令
2004/108/EC

机械信息
总重 500 kg
规格 L 1300 x W 1300 x H 1802 mm**

*取决于错误类型和在罐子的位置. 这些是预期的数据 和最优的条件下.

**封装规格和标准高度.

功能

- 条形码阅读 (梯 + 栅栏)
- 二维码阅读, 包括 QR 码
- 装饰检测 (颜色打印质量, ghost打印 (重复打印), 倒罐和破损)
- 标签位置 (可选)
- 盖子检测 (可选)
- 模块扩展 e.g. 空罐检测 (内壁 + 边缘)
- 模块扩展 e.g. 喷码阅读 批量代码 (顶端和底部)

产品特点

- 自动学习功能
- 使用产品库短转换时间
- 不需要机械调整
- 标准系统
- 随机产品定位
- 简单产线安装
- 不锈钢卫生框架, 用于罐子灌装线和罐子生产线
- 网络连接
- 远程访问连接
- 统计和图片存储
- 友好操作界面
- 简易维护因为没有可移动的备件

合格罐子

Accepted Image 1

Accepted Image 2

Accepted Image 3

Accepted Image 4

Accepted Image 5

Accepted Image 6

Buttons: Start, Stop, Live image, Product, Show image, Reset counters, MCD Analysis settings, Analysis mode, Define reference image, Learning with dataset, Accept learned reference image, View mode, Show statistics, Browse errors, Login, Logout, System control, Shutdown.

Statistics Panel:

- Selected product: test
- Rejected products: 0
- Accepted products: 5
- Total: 5
- Rejected products per inspection:
 - MCD: 0
 - Label: 0
 - Barcode: 0
- Analysis mode: ANALYSING
- Largest defect (pixels):
- Sum of defect sizes (pixels):

Logged images table:

No	Type	Reject

Last reject: 275 11:05:24

Running 11:08:53

Accepted Image 2

Reference

Transformed

Difference

Filtered difference

Buttons: Start, Stop, Live image, Product, Show image, Reset counters, MCD Analysis settings, Analysis mode, Define reference image, Learning with dataset, Accept learned reference image, View mode, Show statistics, Browse errors, Login, Logout, System control, Shutdown.

Statistics Panel:

- Selected product: test
- Rejected products: 0
- Accepted products: 5
- Total: 5
- Rejected products per inspection:
 - MCD: 0
 - Label: 0
 - Barcode: 0
- Analysis mode: ANALYSING
- Largest defect (pixels):
- Sum of defect sizes (pixels):

Logged images table:

No	Type	Reject

Last reject: 5 11:22:59

Running 11:26:02

刮痕 0.4-9mm (取决于在罐子上的位置)

Running 11:59:42

Selected product	test
Rejected products	1
Accepted products	30
Total	31
Rejected products per inspection	
NOI	1
Label	1
Barcode	0

Analysis mode: ANALYSING
Largest defect (pixels): [Red bar]
Sum of defect sizes (pixels): [Green bar]

No.	Type	Reject

Last reject: 31 11:59:32

Running 11:21:37

Selected product	test
Rejected products	3
Accepted products	30
Total	33
Rejected products per inspection	
NOI	3
Label	3
Barcode	0

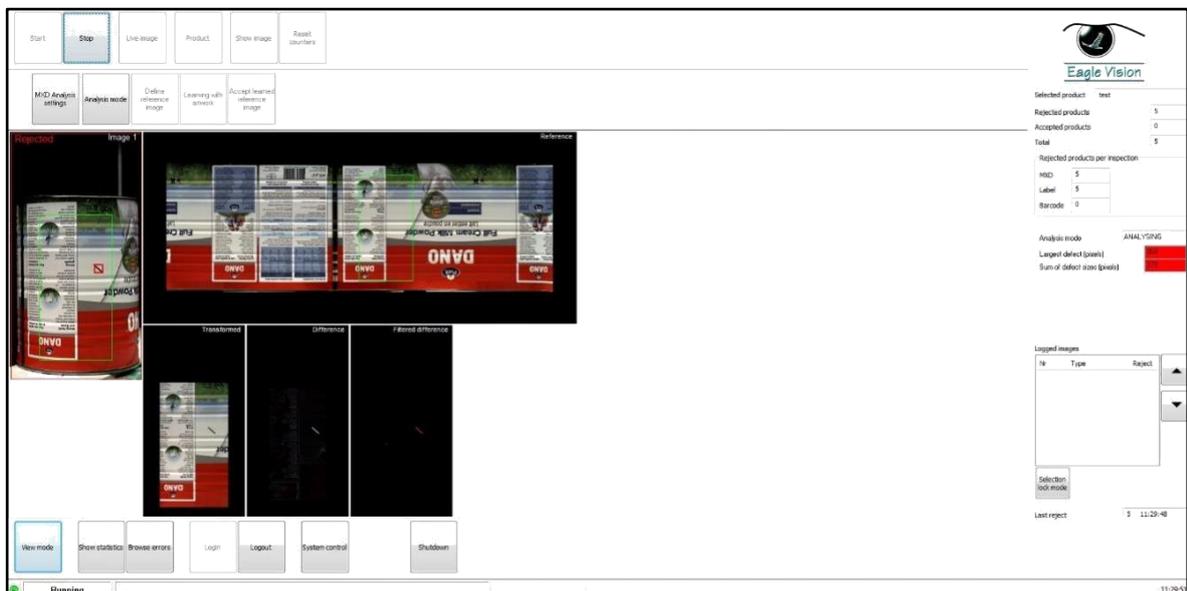
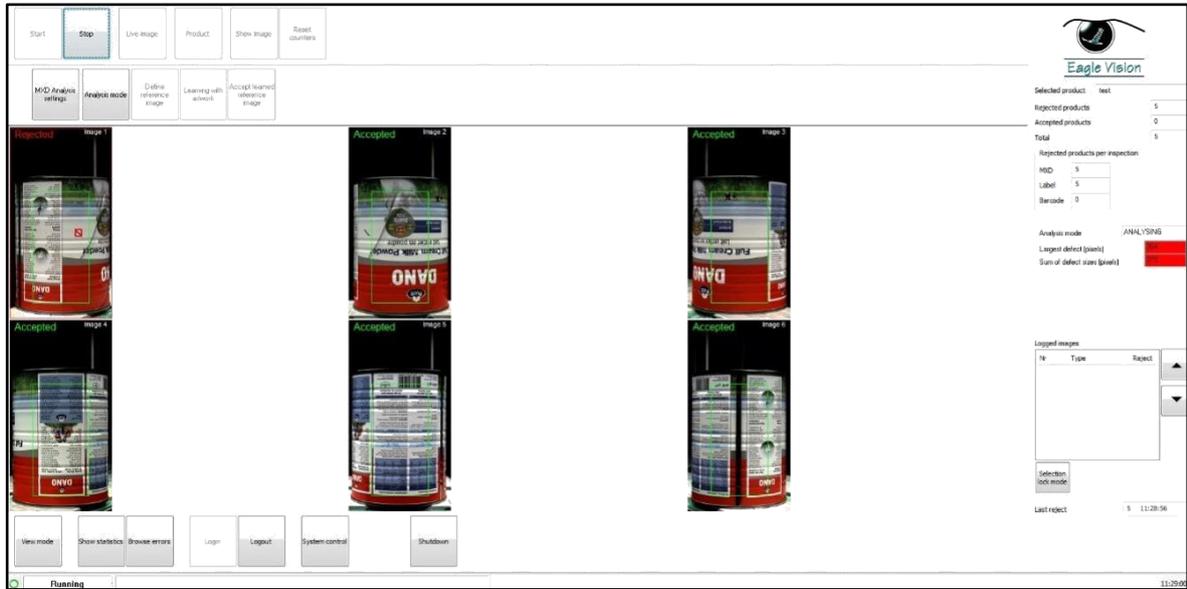
Analysis mode: ANALYSING
Largest defect (pixels): [Red bar]
Sum of defect sizes (pixels): [Green bar]

No.	Type	Reject

Last reject: 33 11:21:31

刮痕 0.8-9mm (取决于在罐子上的位置)

刮痕 1-9mm (取决于在罐子上的位置)



凹陷 罐-1

Selected product: test
 Rejected products: 7
 Accepted products: 0
 Total: 7
 Rejected products per inspection:
 MID: 7
 Label: 7
 Barcode: 0
 Analysis mode: ANALYSING
 Largest defect (pixels): [Red bar]
 Sum of defect area (pixels): [Red bar]

Logged images table:
 No. | Type | Reject
 [Empty table]

Last reject: 7 11:13:05

Selected product: test
 Rejected products: 7
 Accepted products: 0
 Total: 7
 Rejected products per inspection:
 MID: 7
 Label: 7
 Barcode: 0
 Analysis mode: ANALYSING
 Largest defect (pixels): [Red bar]
 Sum of defect area (pixels): [Red bar]

Logged images table:
 No. | Type | Reject
 [Empty table]

Last reject: 7 11:16:18

凹陷罐-2

凹陷 罐-3

Selected product	test
Rejected products	1
Accepted products	1
Total	2

Rejected products per inspection	
MCD	1
Label	1
Barcode	0

Analysis mode: AN44/SRG
 Largest defect (pixels): [Red box]
 Sum of defect sizes (pixels): [Red box]

Nr	Type	Reject
[Empty table]		

Selection lock mode: [Button]
 Last reject: 2 11:32:59

Selected product	test
Rejected products	1
Accepted products	1
Total	2

Rejected products per inspection	
MCD	1
Label	1
Barcode	0

Analysis mode: AN44/SRG
 Largest defect (pixels): [Red box]
 Sum of defect sizes (pixels): [Red box]

Nr	Type	Reject
[Empty table]		

Selection lock mode: [Button]
 Last reject: 2 11:33:46

合格罐子样本

The screenshot shows the Eagle Vision software interface in 'ANALYSING' mode. The main display area contains six images of a NAN 1 400g can, labeled 'Image 1' through 'Image 6', all marked as 'Accepted'. The interface includes a top control bar with buttons for Start, Stop, Live image, Product, Show image, and Reset counters. Below this is a menu bar with options like MID Analysis settings, Analysis mode, Define reference image, Learning with artwork, and Accept learned reference image. On the right, a statistics panel shows: Selected product: Nan 1 400g barcode up; Rejected products: 19; Accepted products: 50; Total: 69. A 'Logged images' table is visible below the statistics:

Nr	Reject
2376	X
2382	X
2388	X
2394	X
2400	X
2406	X
5412	X

At the bottom, there are buttons for View mode, Show statistics, Browse errors, Login, Logout, System control, and Shutdown. The status bar at the bottom indicates 'Running' and the time '11:48:19'.

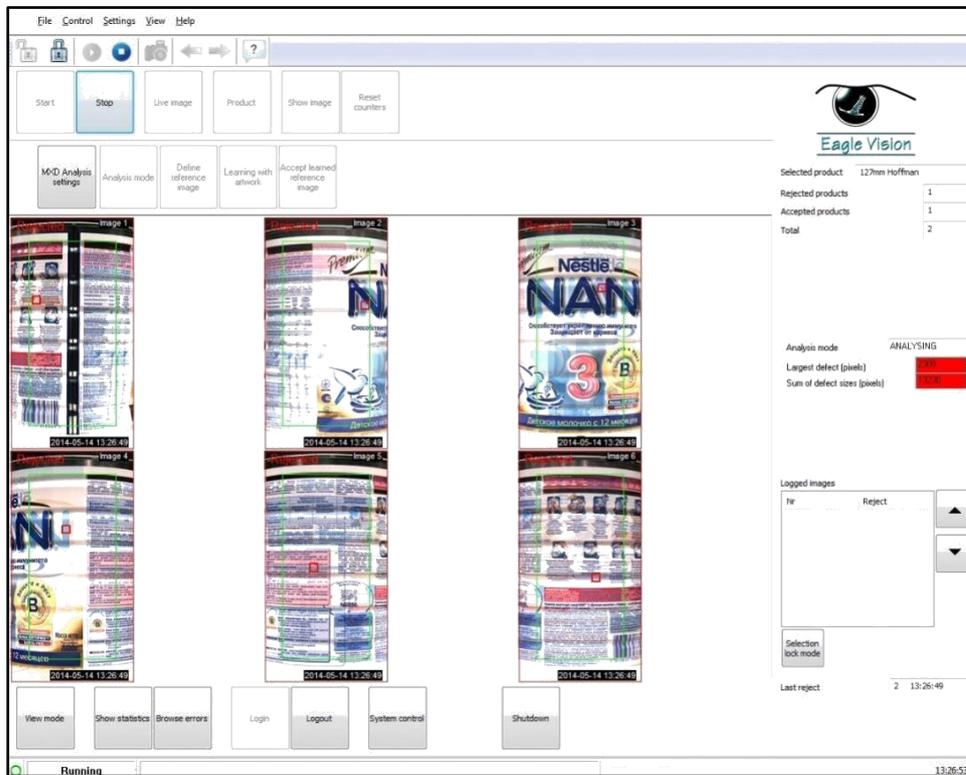
不正确 条形码 + 装饰

This screenshot shows the Eagle Vision software interface with six images of the same NAN 1 400g can, all marked as 'Rejected'. The rejection is due to 'incorrect barcode + decoration'. The interface layout is identical to the previous screenshot, but the statistics panel shows: Selected product: Nan 1 400g barcode up; Rejected products: 17; Accepted products: 43; Total: 60. The 'Logged images' table is updated as follows:

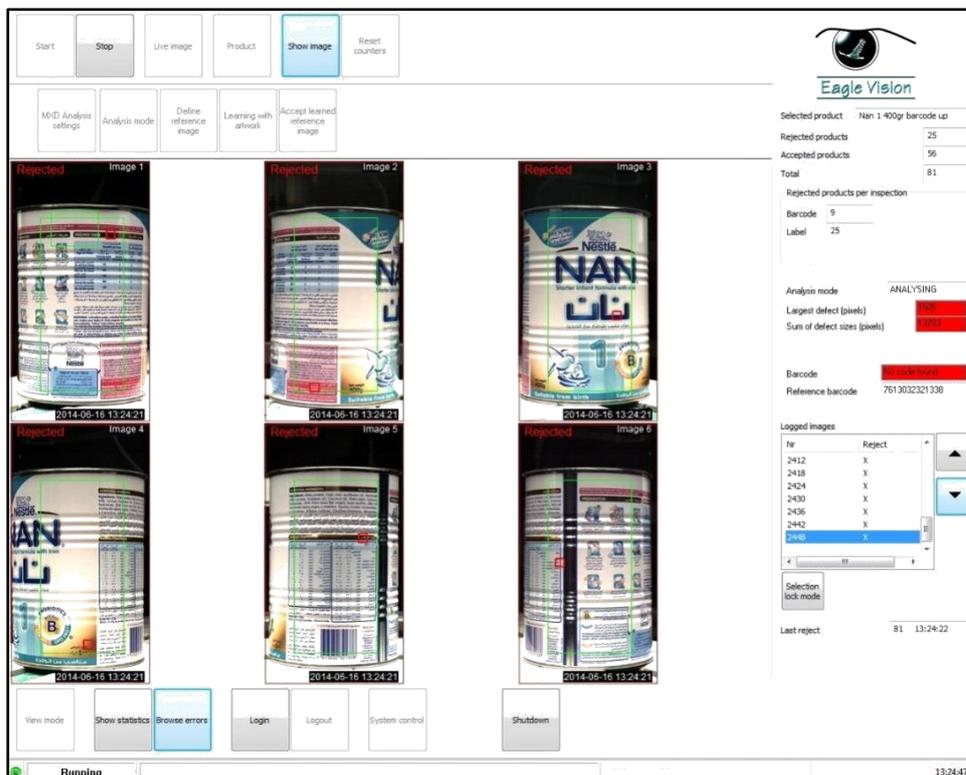
Nr	Reject
2364	X
2370	X
2376	X
2382	X
2388	X
2394	X
2400	X

The status bar at the bottom indicates 'Running' and the time '11:38:32'.

黑接头和重复打印



倒罐



条形码缺失

The screenshot shows the Eagle Vision software interface. The top navigation bar includes buttons for Start, Stop, Live image, Product, Show image, and Reset counters. Below this are buttons for M/D Analysis settings, Analysis mode, Define reference image, Learning with artwork, and Accept learned reference image. The main display area shows six images of a can, labeled Image 1 through Image 6. Images 1, 2, and 3 are marked 'Accepted', while Images 4, 5, and 6 are marked 'Rejected'. The right-hand panel displays the following data:

- Selected product: Nan 1 400gr barcode up
- Rejected products: 17
- Accepted products: 43
- Total: 60
- Rejected products per inspection: Barcode 6, Label 17
- Analysis mode: ANALYSING
- Largest defect (pixels): [Red box]
- Sum of defect sizes (pixels): [Red box]
- Barcode: [Red box]
- Reference barcode: 7613032321338
- Logged images table:

Nr	Reject
2364	X
2370	X
2376	X
2382	X
2388	X
2394	X
2400	X
- Last reject: 54 11:38:02

The bottom status bar shows 'Running' and the time '11:41:05'.

混合罐

The screenshot shows the Eagle Vision software interface. The top navigation bar includes buttons for Start, Stop, Live image, Product, Show image, and Reset counters. Below this are buttons for M/D Analysis settings, Analysis mode, Define reference image, Learning with artwork, and Accept learned reference image. The main display area shows six images of a can, labeled Image 1 through Image 6. All images (1-6) are marked 'Rejected'. The right-hand panel displays the following data:

- Selected product: Nan 1 400gr barcode up
- Rejected products: 39
- Accepted products: 87
- Total: 126
- Rejected products per inspection: Barcode 15, Label 39
- Analysis mode: ANALYSING
- Largest defect (pixels): [Red box]
- Sum of defect sizes (pixels): [Red box]
- Barcode: [Red box]
- Reference barcode: 7613032321338
- Logged images table:

Nr	Reject
2406	X
2502	X
2508	X
2514	X
2520	X
2526	X
2532	X
- Last reject: 125 13:28:46

The bottom status bar shows 'Running' and the time '13:29:27'.

