INSPEKTO

AUTONOMOUS MACHINE VISION

DATASHEET
INSPEKTO S70 GEN.2

SPECIFICATIONS

Inspection	
Inspection cycle time	~0.3 seconds (*1)
Part speed	Stationary / Continuous at up to 0.75 m/sec
Installation distance	10cm - 100cm
Minimal defect size	0.33mm @ 10cm distance W/O optical zoom (*2)
Optical zoom level	X10
Optics and lighting adjustment (Focus, exposure, gain, others)	Autonomous embedded anti-reflection adaptive lighting
Detection and positioning	Autonomous
Trigger type	Automatic / manual / PLC / trigger-in
Sensor color	Greyscale
Number of inspection profiles supported on a single S70	Unlimited (*3)
Number of actionable inspection areas	Unlimited
Lighting	Embedded, Anti-reflection adaptive lighting
Code Reading(*4)	
2D Code	QR, DMC
1D barcode	EAN-13/UPC-A, UPC-E, EAN-8, Code 128, Code 39, Interleaved 2 of 5
Controller	
OS	Linux (Ubuntu distribution)
Networking	Ethernet | Wi-Fi
Industrial connectivity	Profinet, Ethernet/IP, TCP/IP, Digital I/O, Discrete I/O
Weight	4.5 kg
Dimensions - height, width, depth	110.5 mm, 225 mm, 240 mm
Monitor	
Size	21.5"
Resolution	1920 x 1080 at 60 Hz
Dimensions - height, width, depth	293.4 mm, 487.3 mm, 41.3 mm
Mounting	
Industrial grade adjustable mounting system	Adjustable arm; long arm' short arm; 3 connectors; knuckles
Mounting tools & accessories	2 screws, T-nuts & Allen wrench supplied
Cobots mounting	Ready for cobot mounting
Power	
Power Supply	100-240 Volt – 3 sockets for: Controller, Lighting, Monitor
Controller DC Input	1x 3-pin pluggable terminal block for 8~35VDC
Environmental	
Operating Temperature	Operating ambient range is of 10 to 38 °C (50 to 100 °F)
Humidity	20-80%
Maximum operating altitude	2000 m asl.
Outdoor/Indoor usage	Indoor only

(*1) Cycle time may vary & depends on image grabbing method, triggering method and other factors.
(*2) Minimal defect size is depending on the Vision System distance from the inspected part.
(*3) Requires TYPES™ application
(*4) Requires CODES™ application installation.

The INSPEKTO S70 Gen. 2 is a self-contained visual inspection product. It comes ready to connect directly to your production line and your PLC with everything you need for deployment, in the box.
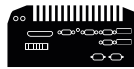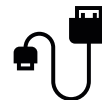
What's in the box

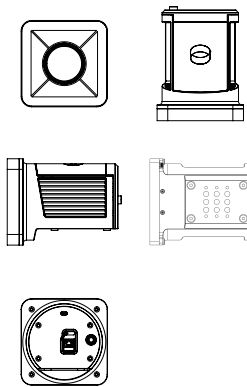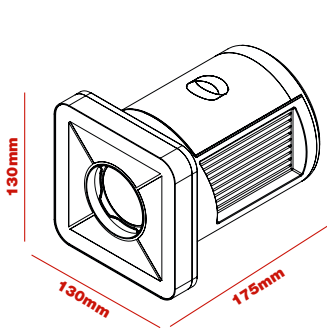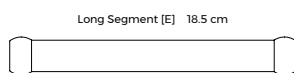| Vision System | Software | Industrial Controller | Mounting assembly | Keyboard & mouse | Cables | Monitor |

Vision system

Fully integrated vision system includes:

- Camera & lens (X10 optical zoom)
- Anti-reflection adaptive lighting
- Vibrations sensor
- Quick release mounting adaptor
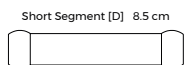
130mm
130mm
175mm

Mounting Assembly

Flexible ruggedized industrial mounting assembly for installation in various modes, adaptable to any setting.

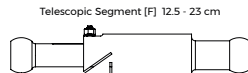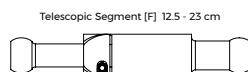3 arm segments (long, short, adjustable) and 3 joints

Long Segment [E]   18.5 cm

Telescopic Segment [F] 12.5 - 23 cm
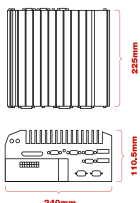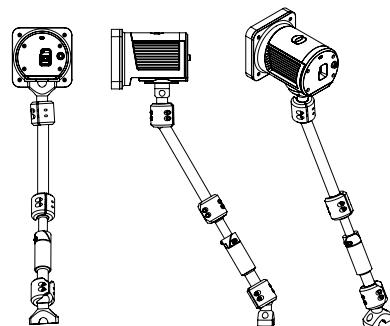
Short Segment [D]   8.5 cm

Telescopic Segment [F] 12.5 - 23 cm

Sample setting

Industrial Controller

Ruggedized edge computing controller
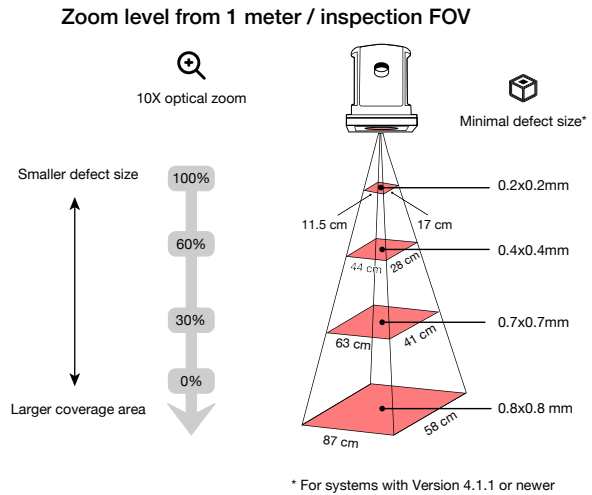Pre-installed INSPEKTO QUALIFY™ application

225mm
110.5mm
240mm

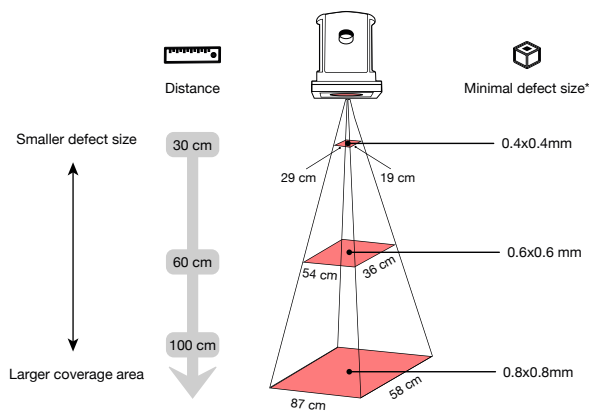Inspekto S70 Gen.2 Connection Diagram

Wiring Diagram

- PLC digital I/O connectivity
- Fast and easy wiring

Inspection Field of View and minimal defect size

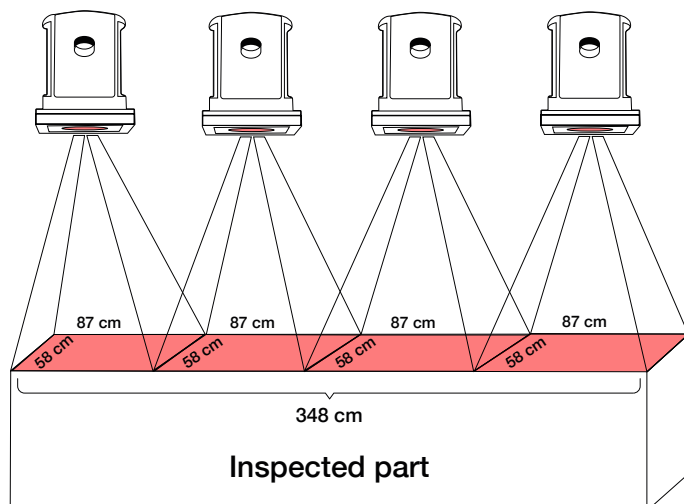Wide range of part sizes and minimal defect sizes detection.

Zoom level from 1 meter / inspection FOV

10X optical zoom

Smaller defect size

100%

60%

30%

0%

Larger coverage area

Minimal defect size*

0.2x0.2mm

11.5 cm   17 cm

0.4x0.4mm

44 cm   28 cm

0.7x0.7mm

63 cm   41 cm

0.8x0.8 mm

87 cm   58 cm

* For systems with Version 4.1.1 or newer

Vision Sensor distance from part / inspection FOV

Distance

Smaller defect size

30 cm

60 cm

100 cm

Larger coverage area

Minimal defect size*

0.4x0.4mm

29 cm   19 cm

0.6x0.6 mm

54 cm   36 cm

0.8x0.8mm

87 cm   58 cm

Correlated to the Vision System set-up distance from the inspected part and the level of the used optical zoom as described in the diagram.

* For systems with Version 4.1.1 or newer

Flexible set-up

The parameters of the vision system can be modified to inspect larger products by incorporating multiple systems along the production line.

87 cm   87 cm   87 cm   87 cm

58 cm   58 cm   58 cm   58 cm

348 cm

Inspected part

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