Fact Sheet

PackSecure

Complete optical control of packages: With PackSecure you meet key criteria for an optimal product quality – n undamaged seal and correct labeling. The system completely checks each product side for any damaged seals, incorrect labels or information. Packages which do not meet the defined criteria are automatically rejected.

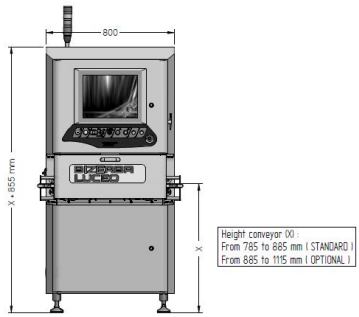
More information
High performance with a wide range of solutions and options.

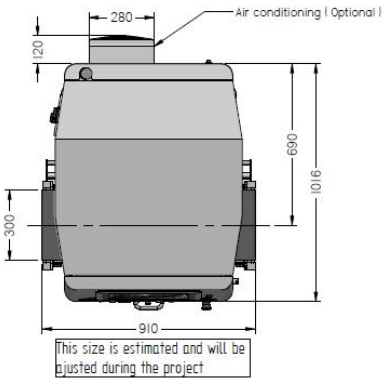
Specifications	Facts	Details
Functions	Detects	
	– Contaminations/foreign bodies in the seal on trays, flow packs and cups	Contaminations/foreign bodies from 1 mm²
	– Poor seal quality	Air bubbles, wrinkles in the top film
	Checking of presence, position and orientation of labels	
	Reads information such as characters and codes on any side of the package	Independent of printing technology (ink-jet, thermal transfer, laser)
	– top – bottom – side	
		Checks lateral label: presence and reading of label number
	Checks lateral label: presence and reading of label number	
	Checks matching of labels	
Integration	All these functions are efficiently fulfilled by one compact machine for an easy end-of-line integration.	
	Before case packing, the stand-alone inspection machine detects defective packs and is able to reject them.	
Versions	basic	Detects contamination in the seal and checks labeling
	pro	Detects contaminated and poor-quality sealing and checks labeling
Camera system	Two to four sensors used to check the seal for foreign body and/or the seal quality as well as the labeling	Sensor consists of camera, lighting, and accessories. The quantity depends on the number of sides to be checked.
		The image recording field adjusts to the size of the products to be inspected. Life of LED lighting is more than 5 years.
	Line scan camera	The pixel size (0.10 to 0.16 mm²) allows detection as from one square millimeter.
	Protected against ambient light and manipulations	No external influences on the inspection results
Dimensions	910 - 1,380 mm x 1,016 mm x 1,645 - 1,965 mm (L x W x H)	Device dimensions without rejection unit
		Width is 1,136 mm with cooling device
Housing	Design according to hygiene requirements	– EHEDG certified components

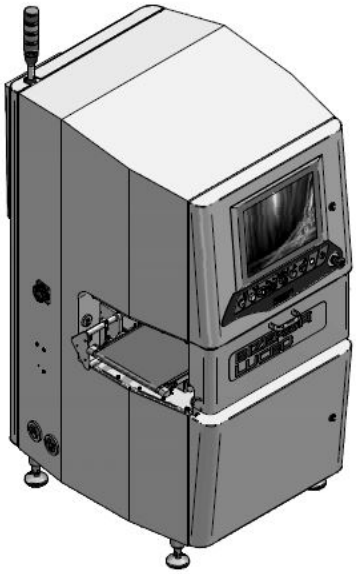
		– Inclined surfaces for drainage of washing water – No risk of glass splinters according to the HACCP directive
IP rating	IP65	All optical inspection components are integrated in a tightly sealed stainless steel housing.
Max. conveying speed	60 m/min.	
Processing system	Industrial PC	– Operating system: Windows IoT Standard 10 – Processor Intel® Core™ i7 – Real time image processing card
Interfaces	USB ETHERNET	 Connection to customer network via Ethernet (TCP/IP possible)
Power supply	230 VAC; 50 Hz / 110 VAC, 60 Hz (incl. transformer) + single phase + ground uninterruptable power supply (UPS) system for computing and display units	Open to other local voltage with a transformer
Ambient temperature	1 °C to 35 °C	With cooling device as from 15 °C
Humidity	Max. 85%, non-condensing	
Maintenance	Tool-free dismantling of conveyor belts in less than one minute	
Optical signaling device	Signal lamp	Visual alarm for detection of non-conforming package
Conveying direction	left to right right to left	
By-pass mode	Switch activated with a key	Allows continuous production even in case of an operating system failure

Options	**Facts**	**Details**
Checks	Checking of product presence in a package	Other inspections based on feasibility upon request
	Appearance and arrangement of the products in the packaging	
Production control	Communication interface to the process	Data transfer within the factory concerning: – System performance (monitoring of the device cycle, process data etc.) – Production monitoring (history of batch changes, test statistics, archiving of batch changes)
Rejection unit	Mechanical pusher	
IP rating	IP66 upgrade	– Buttons – Emergency stop switch – Display
US-Special current transformer	115 V AC	

Dimensional drawings







Bizerba SE & Co. KG
Wilhelm-Kraut-Straße 65
72336 Balingen

T +49 7433 12-0
fax: +49 7433 12-2696
marketing@bizerba.com

www.bizerba.com

Fact Sheet
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BIZERBA

Complete optical control of packages: With PackSecure you meet key criteria for an optimal product quality – n undamaged seal and correct labeling. The system completely checks each product side for any damaged seals, incorrect labels or information. Packages which do not meet the defined criteria are automatically rejected.

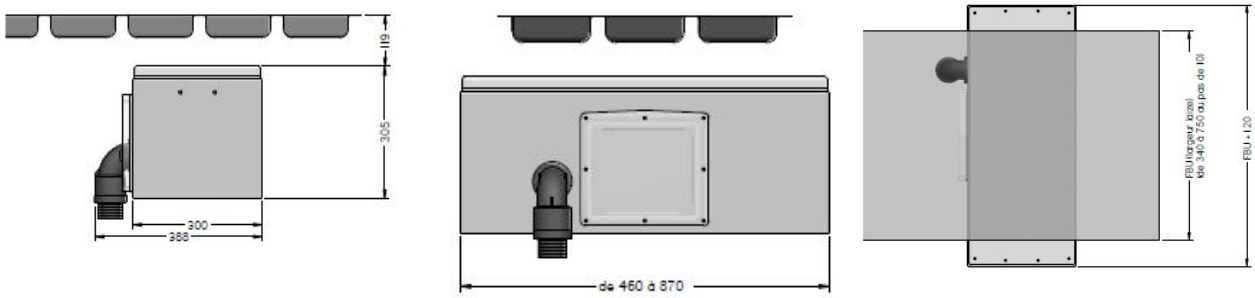
More information
High performance with a wide range of solutions and options.

Specifications	Facts	Details
Functions	Detects	
	– Contaminations/foreign bodies in the seal on trays, flow packs and cups	Contaminations/foreign bodies from 1 mm²
	Checking of presence, position and orientation of labels	
	Reads information such as characters and codes on any side of the package	Independent of printing technology (ink-jet, thermal transfer, laser)
	Checks matching of labels	Checks, for example, whether top and bottom labels match.
	– No integrated rejection device but reporting of detected errors	Transmits information in two ways:
		– TCP/IP protocol: Sends the position information of the individual packages within the group
		– Sends digital signals to peripheral devices (printer, robot, rejector...) with package tracking up to the thermoformer output
Integration	All parameters are checked by the sensors integrated in the thermoformer.	
	PackSecure T is compatible with all common thermoformers and can be used for numerous inspection tasks	
Versions	basic	Recognizes contaminations in the seal
Camera system	Two to four sensors used to check the seal for foreign body and/or the seal quality as well as the labeling	Sensor consists of camera, lighting, and accessories. The quantity depends on the number of sides to be checked.
		The image recording field adjusts to the size of the products to be inspected. Life of LED lighting is more than 5 years.
	Line scan camera	The pixel size (0.10 to 0.16 mm²) allows detection as from one square millimeter.
	Protected against ambient light and manipulations	No external influences on the inspection results
Dimensions	Sensor: 460-870 mm x 388 mm x 310 mm (L x W x H)	The length of the sensor housing depends on the film width (340 to 750 mm). Other lengths on request.
	Back lighting: 460-870 mm x 238 mm x 190 mm (L x W x H)	The length of the housing depends on the film width (340 to 750 mm). Other lengths on request.
	Control cabinet on castors: 650 mm (850 mm with cooling device) x 780 mm x 1,800 mm (2,130 mm with signal lamp) (L x W x H)	Color touch screen, processing system, operating elements for the lighting, power supplies, input/output terminal blocks and connector housing

	Coating to protect supply, control and communication cables between sensors, lighting and control cabinet	
IP rating	IP66 for sensors and lighting IP65 for the control cabinet	All optical inspection components are integrated in a tightly sealed stainless steel housing
Device performance	15 operating cycles per minute	Adjustable to common maximum conveyor speeds
Processing system	Industrial PC	– Operating system: Windows IoT Standard 10 – Processor Intel® Core™ i7 – Real time image processing card
Interfaces	USB ETHERNET	 Connection to customer network via Ethernet (TCP/IP possible)
Compatibility	Hardware integration in the thermoformer Compatible with most installed thermoformers or project planning in cooperation with thermoformer manufacturer Protocol of communication with the peripheral devices Printing systems, external rejection systems (retraction belt, divider, robot etc.)	
Power supply	230 VAC; 50 Hz / 110 VAC, 60 Hz (incl. transformer) + single phase + ground uninterruptable power supply (UPS) system for computing and display units	Open to other local voltage with a transformer
Ambient temperature	1 °C to 35 °C	With cooling device as from 10 °C
Humidity	Max. 85%, non-condensing	
Optical signaling device	Signal lamp	Visual alarm for detection of non-conforming package
By-pass mode	Inspection tasks can be deactivated	

Specifications	**Facts**	**Details**
Checks	Checking of product presence in a package Appearance and arrangement of the products in the packaging	Other inspections based on feasibility upon request
Production control	Communication interface to the process	Data transfer within the factory concerning: – System performance (monitoring of the device cycle, process data etc.) – Production monitoring (history of batch changes, test statistics, archiving of batch changes)
IP rating	IP66 for the control cabinet	– Buttons – Emergency stop switch – Display
US-Special current transformer	115 V AC	

Dimensional drawings



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