



Basic Scout specifications

The modular Basic Scout platform consists of 1 or more Inspection module(s) and a Control unit.

General performance		
Products to be inspected	Bottles, Cans, Jars, Foils, Bags, Sachets, Secondary packaging, Primary product.	included
Capacity	Typical maximum of 60.000 products per hour (depends on inspection application and product).	
Detection reliability	> 99% (depends on inspection application and product).	
False reject rate	< 0.1%(depends on inspection application and product).	
Inspection module(s)		
Optical unit	Combination of camera and illumination in industrial enclosure (typical IP54).	
Camera type	High end industrial GigE.	included
Illumination	Triggered LED illumination synchronized with camera capture.	included
Height adjustment	See section System extensions.	option
Mounting	Floor mounted with column to floor.	included
	Custom frame/bracket mount to conveyor.	option
Application software	Mix-up detection.	available
	360° Label & Decoration inspection.	available
	Code reading (also barcode/matrixcode).	available
	Closure inspection.	available
	Color inspection.	available
	Shape inspection.	available
	Insert inspection.	available
	Empty bottle inspections (neck finish, bottom, sidewall).	available
	Empty can inspections (flange, bottom, sidewall).	available
	Box & Crate inspections	available
	Combination of above applications	available
Other inspections can be configured by Eagle Vision specialists using the Basic Scout framework software	option	



Control unit

General

Connectivity	Connects up to 4 or 8 optical units.	included
Computer	High end Intel Mobile i7 CPU.	included
Processing speed	Typical max. of 60.000 products per hour . Actual speed depends on number of optical units and application complexity.	
IP specification	IP54.	
Dimensions	715x380x210mm (width x heigh x depth).	
Weight	35 Kg.	
Power consumption	Max 1300W.	
Mounting	Floor mounted with column to floor.	included
	Custom frame/bracket mount to conveyor.	option

Operator interface

Screen	17" touch interface, 1280x1024 resolution.	included
Visualization	Inspection and measurement results. Numerical display, image and graphic display.	included
Counters	Total, accepted, rejected. Graphic trending of reject %.	included
Standard language	English.	included
Local language	Translation possible.	option

System interfaces

DIO interface	Total 8 inputs and 8 outputs.	included
Triggering	From external system or a built-in laser fotocell.	included
Encoder	Incremental Rotary encoder Pepperl & Fuchs RVI-58N.	included
Rejection	Digital IO with encoder. Product tracking module. DIO signal to rejector if product is at a defined position.	included
Rejection units	See section System extensions.	option
Ethernet connection	Connection for TCP/IP and UDP/IP communication.	included
Standard interface including product selection, alive signal and other signals	Based on UDP	included
Standard interface including product selection, alive signal and other signals	Based on OPC, using Kepware OPC server. Supports both Siemens and Allan Bradley PLCs. Use of RSLinx OPC server for Allan Bradley devices is also an option.	option
	Other interfaces can be configured.	option
Detailed data interface to external systems (like MES)	Data file with events and products inspected and products rejected counters.	included
	Data file with images of rejects and/or accepts.	included
Fail safe operation		
Alive DIO signal	Alternating or steady.	included
Alive network signal	UDP over ethernet connection.	included
Eject validation	Processing and interface for signal is available.	included
Backup / Restore	Backup of all settings on a separate medium. Automatic backup every given period (default 5 days). In case of data-loss or physical failure support for restore by supervisor using the touch screen interface.	included



Consecutive reject functionality	Configurable. A DIO signal in case of an adjustable number of consecutive rejects is possible.	included
Test product handling	Procedure and automatic reject of test products.	option
Diagnostics		
Error display	On screen and in error log file.	included
Inspection result	Images of rejects products are saved, and can be walked through on the screen by operators/supervisors.	included
Remote maintenance		
By internet	Requires internet connection to the system that allows an outgoing VPN connection.	included
By phone line	Using a POST or ISDN modem. Requires phone line to the system that is similar to a data/fax.	option
By wifi	IEEE 802.11b/g Reception must be available at the system location.	option
By mobile data network	GPRS, UMTS, HSDPA using a dongle. Reception of network must be good at system location.	option
Documentation		
User manual	For main system and every inspection module.	included
Standard language	English.	included
Local language	Translation possible.	option
Drawings	Electrical drawing per module.	included
After sales support		
Warranty	12 months on components.	included
Installation	On-site installation and commissioning.	option
Training	Operator and supervisor training.	option
Spare parts	Recommended spare parts list available.	option
Service	Preventive and corrective maintenance, as required.	option
Other features		
CE compliance	yes	included
System extensions		
Rejector	<i>Pneumatic stroke pusher</i> for high speed conveyor (max 8 products/sec) Communication of status (no air/alarm) to Control unit.	option
	<i>Amplified air rejection</i> for high speed conveyor (max 8 products/sec) especially for light weight products like empty cans etc. Communication of status (no air/alarm) to Control unit.	option
Product handling	Delivery with an integrated product conveyor possible.	option
Machine integration	Delivery as OEM module for system integrator/machine builder.	option
Height adjustment	Manual adjustable, different ranges available.	option
Control unit 19	Replacement of standard Control unit for extended capacity and performance.	option

