SENTINEL GOLD

SENTINEL GOLD IS AN ADVANCED QUALITY CONTROL SYSTEM DESIGNED TO 100% INSPECT THE PRINTED WEB MATERIAL.

Sentinel Gold is equipped with one high speed line scan camera that continuously acquires very high resolution images of the entire web. Thanks to this specific technology it is possible to visualize and inspect all parallel labels of one reel with a single image. Different configurations and camera resolutions are available to optimize the performances for every application.

Sentinel Gold immediately identifies defects, such as missing colour, spots, substrate damages, remaining matrix, splices, color deviation, text defects, hickeys, poor quality codes and colour misregistration.

SPECIAL LED DIFFUSE ILLUMINATOR

Sentinel Gold is designed to work on all types of substrates and materials including any highly-reflective foil. The advanced LED dome illuminator permits to optimize the image quality on special finishing like hot and cold foil, embossing, metalized substrates and transparent films.

FAST JOB SETUP

Sentinel boasts a fast and easy setup. Starting a new job can be a completely automatic procedure, most tasks are accomplished by pushing a single button. Setup time is less than 10 seconds.

Advanced Inspection System for LABELS & NARROW WEB

No computer knowledge is required to operate thanks to an intutive interface and touch screen operations.

INSTALLATION ON PRINTING PRESSES

Installed on a printing machines Sentinel checks the quality of the entire job and in case of defect it immediately alerts the operator to avoid large amounts of waste.

INSTALLATION ON REWINDING MACHINES

Installed on a rewinding machine Sentinel controls the quality of the entire print job. In case of defect Sentinel slows down the machine and stops the defect in position for allowing the operator to check and fix.

With Sentinel installed on your rewinding machine you can be sure that defective material will not be delivered to your customers.
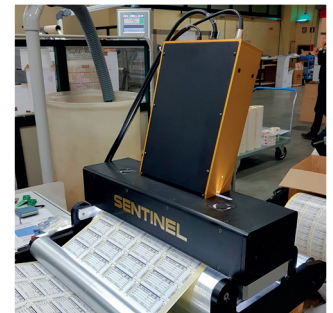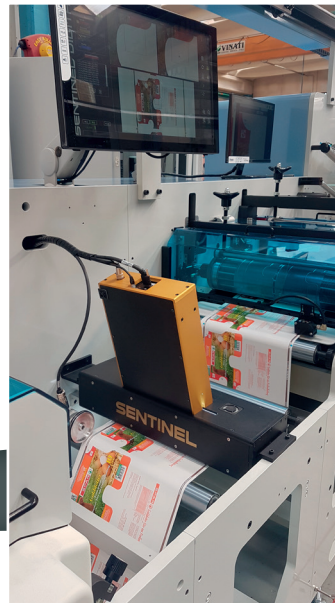
DeCoSystem

SENTINEL GOLD

STANDARD FEATURES

- Easy integration onto all common printing presses and finishing machines.
- Easy to learn and easy to use GUI interface
- All operations can be carried out using the touch screen
- Simple and quick setup
- Multiple areas with independent sensitivity settings
- Masking areas
- Great reliability in defect detection
- Web viewing with live image with digital zoom and full repeat navigation
- Defects are clearly displayed to the operator with toggle feature
- Hold and Zoom of the defective image
- Different display modes: defect detection and defect history
- Full defects report and automatic storing of all production process data
- Different levels of Login
- Alarm on repetitive defects.
- Automatic compensation of web shift, no web guiding required
- Scalable resolution (depending on speed)
- Possibility to inspect booklet labels
- Connection to a flagger device
- Automatic shutdown

OPTIONS

- In-line Delta E spectral measurement and color control
- Printing Format lenght measurement
- 1D and 2D Barcodes reading
- ISO/IEC grading of all 1D/2D variable codes
- OCR (Optical Character Recognition) and OCV (Optical Character Verification)
- Variable Data comparison against a database list.
- Signal tower with LED indicator
- Second screen for large web view
- Workflow link
- Data and defects information saved on a dedicated server
- Custom illuminator for special ink
- One year remote support and free software upgrades
- Pro support: on site computer warranty

TECHNICAL DATA

| DESCRIPTION | Banda | STEP OF ENCODER = 1 | | | | | | | STEP OF ENCODER = 2 | | | | | | | STEP OF ENCODER = 3 | | | | | | |
		RisX	RisY	V.max	DM-ZU	DM-ZU	DM-ZS	DM-ZS	RisX	RisY	V.max	DM-ZU	DM-ZU	DM-ZS	DM-ZS	RisX	RisY	V.max	DM-ZU	DM-ZU	DM-ZS	DM-ZS
Sentinel GOLD	max	mm	mm	m/min	mm²	mm	mm²	mm	mm	mm	m/min	mm²	mm	mm²	mm	mm	mm	m/min	mm²	mm	mm²	mm
Sentinel L 350	350	0,09	0	72	0,05	0,26	0,15	0,44	0,09	0	144	0,10	0,36	0,31	0,63	0,09	0,18	216	0,15	0,44	0,46	0,77
Sentinel L 350 – HF	350	0,09	0	126	0,05	0,26	0,15	0,44	0,09	0	252	0,10	0,36	0,31	0,63	0,09	0,18	378	0,15	0,44	0,46	0,77
Sentinel L 450	450	0,11	0	72	0,07	0,29	0,20	0,50	0,11	0	144	0,13	0,41	0,40	0,71	0,11	0,18	216	0,20	0,50	0,59	0,87
Sentinel L450 – HF	450	0,11	0	126	0,07	0,29	0,20	0,50	0,11	0	252	0,13	0,41	0,40	0,71	0,11	0,18	378	0,20	0,50	0,59	0,87
Sentinel L 550	550	0,13	0	72	0,08	0,32	0,24	0,55	0,13	0	144	0,16	0,45	0,48	0,78	0,13	0,18	216	0,24	0,55	0,73	0.96
Sentinel L550 – HF	550	0,13	0	126	0,08	0,32	0,24	0,55	0,13	0	252	0,16	0,45	0,48	0,78	0,13	0,18	378	0,24	0,55	0,73	0.96

OPTIONS

Double monitor	PRO SUPPORT	Auto shut down	PDF REPORT	format measurement	Multiple areas	Barcode-datamatrix-ocr	Control from database	PDF Comparison
option	option	yes	yes	option	yes	option	option	option

- Number of Camera Sentinel Gold: 1
- Camera type: color 4096 pixel
- Color Variation (delta E measurement): 8

V.MAX: maximum speed
DM-ZU (mm²): Minimum defect in unifirm area in square millimiter
DM-ZU (mm): Minimum defect in unifirm area in millimiter (we suppose to have a defect like a dot)
DM-ZS (mm²): Minimum defect in structured area in square millimiter
DM-ZS (mm): Minimum defect in structured area in millimiter (we suppose to have a defect like a dot)

Technical data and system specifications refer to the state at the time of printing. We reserve the right to modify them in the interest of a continuous program of further development.