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SafetySight Iridio



Passion for Quality

SafetySight Iridio safety camera

SAFETY LIKE YOU'VE NEVER SEEN BEFORE

SafetySight Iridio is a safety device for applications up to:
SIL 2 acc. to IEC 61508
PL d, Cat. 3 acc. to ISO 13849-1

QUICK AND INTUITIVE CONFIGURATION

The device is designed for simple and immediate installation. After a few quick and intuitive steps guided by the Iridio Studio configuration software, the solution is up and running in minutes.

PREVENTION OF UNEXPECTED START-UP

SafetySight Iridio monitors a protected area in order to detect operator motion prior to machinery re-start.

ALL-IN-ONE DEVICE

Each SafetySight Iridio contains a complete internal safety device that interfaces with the rest of the system through digital outputs. This means there is no need for a dedicated control device in the switching cabinet. Instead, SafetySight Iridio can be connected directly to any safety controller compatible with OSSD signals.



INTUITIVE STATUS SIGNALLING

Check the status of SafetySight Iridio at a glance: the front-mounted LED indicator signals all device operating modes using different colours.

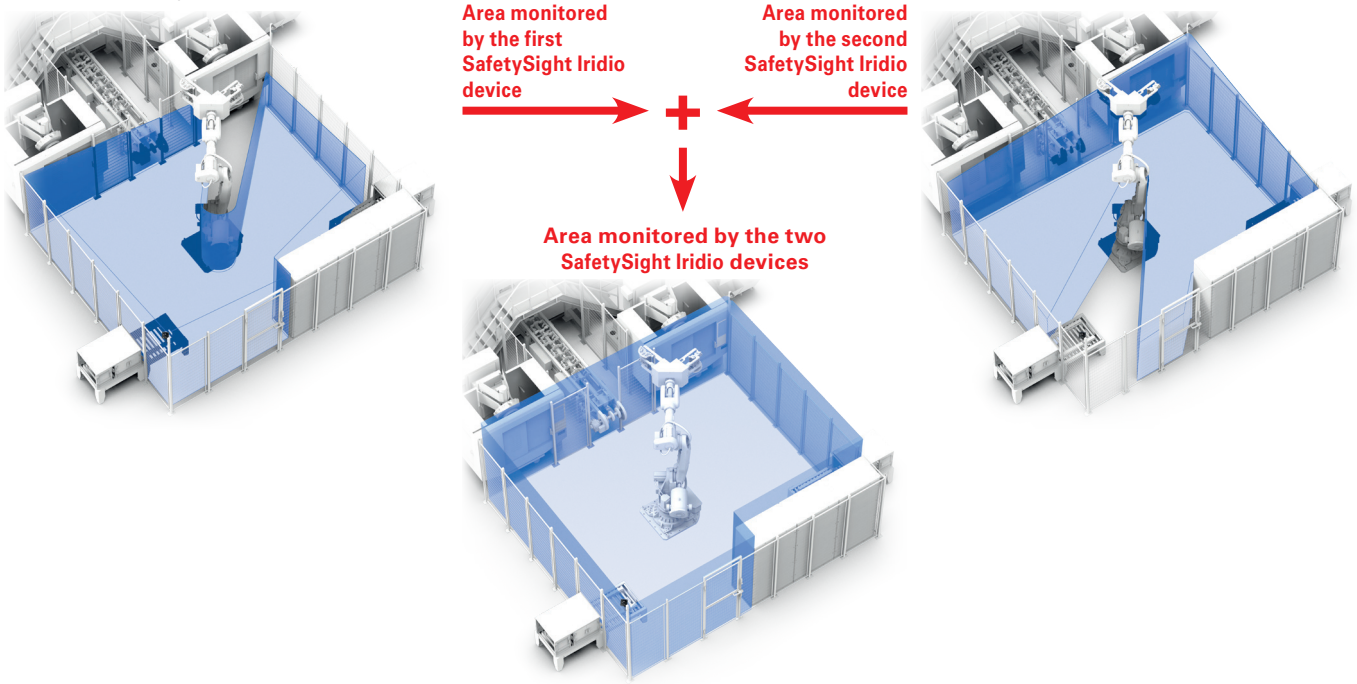
OPTICAL VISION TECHNOLOGY

The algorithms developed for image analysis can handle changes in the scene, meaning that leaving a pallet truck or other equipment in the area being monitored will not prevent start-up of the production line. The Iridio Studio software also enables a visual check of the monitored area to identify and mask areas outside the work area or any elements causing disturbance.

TÜV certification of SafetySight Iridio as a safety camera is currently underway.

POSSIBILITY OF CONNECTING MULTIPLE DEVICES IN THE SAME AREA

For applications that require monitoring of large work areas, or covering blind spots within the monitored area, it is possible to install and connect multiple SafetySight Iridio devices. This modular architecture means the system can be adapted to the specific requirements of any installation, ensuring full coverage regardless of the complexity of the area to be protected.



OPERATING STATES

Check the status of SafetySight Iridio at a glance: the front-mounted LED indicator signals all device operating modes using different colours.



IDLE

SafetySight Iridio is ready to start monitoring



MONITORING

SafetySight Iridio is monitoring the area



AREA CLEAR

No motion detected, SafetySight Iridio enables OSSD safety outputs



MOTION DETECTED

Motion detected, SafetySight Iridio keeps OSSD safety outputs disabled

IRIDIO STUDIO SOFTWARE

The Iridio Studio software is a tool providing setup and diagnostics for devices in the SafetySight Iridio series. Iridio Studio enables calibration and configuration of multiple devices in the same project. Starting with an image of the area captured by the safety camera, it is possible to calibrate each device and set different operating parameters. The preview image shows the area monitored (Fig. 1). This enables direct correspondence between what is seen and what will be monitored by the device.

With the Iridio Studio software, users can quickly and easily mask the area to be monitored (Fig. 2), excluding zones that are not of interest, shadows, lights and reflections. This enables a significant reduction in the number of false positives. Once the monitoring area has been set, SafetySight Iridio will only detect motion within that area (Fig. 3).



Fig. 1

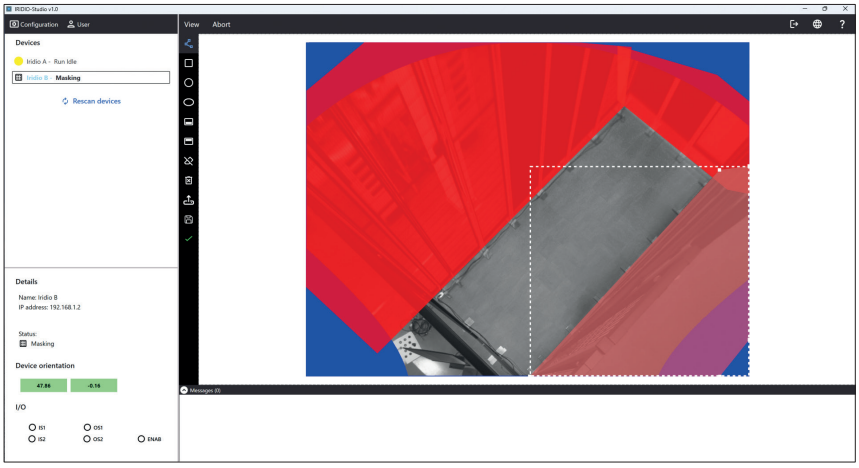


Fig. 2

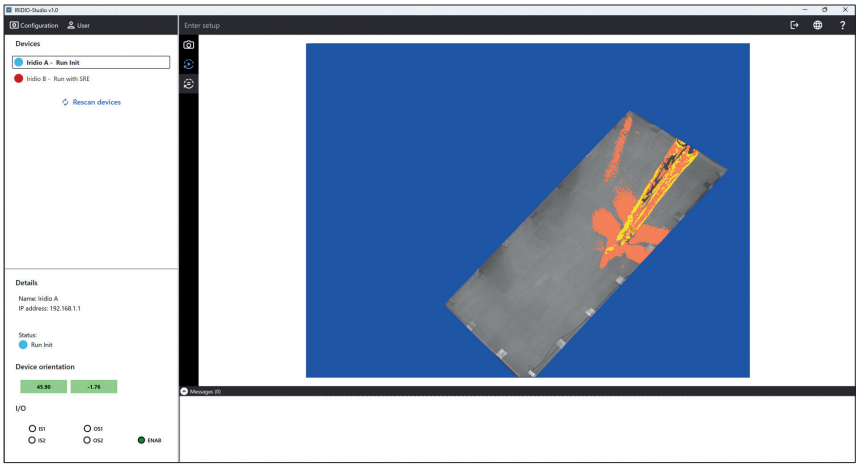


Fig. 3

QUALITY MARKS

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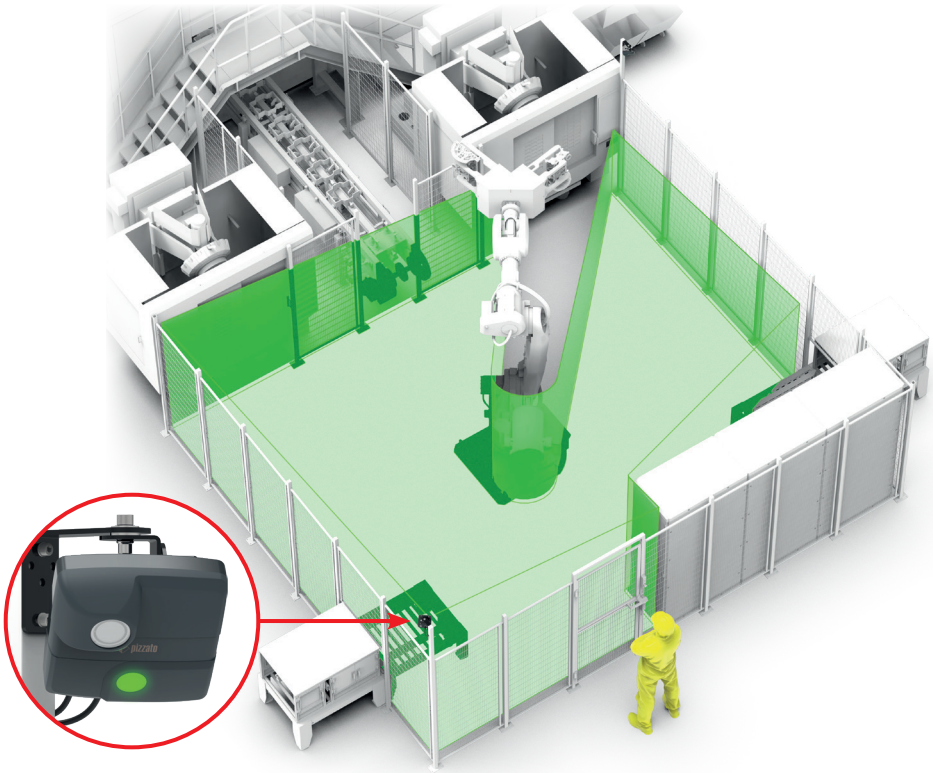
EC type examination certificate: Pending
TÜV approval: Pending

NO MOTION DETECTED INSIDE THE MONITORED AREA

The operator presses the START button to start up the machine.







The two SafetySight Iridio devices do not detect motion and allow start-up by enabling their OSSD safety outputs.

The safety PLC, having received permission from the two devices, starts up the machine.

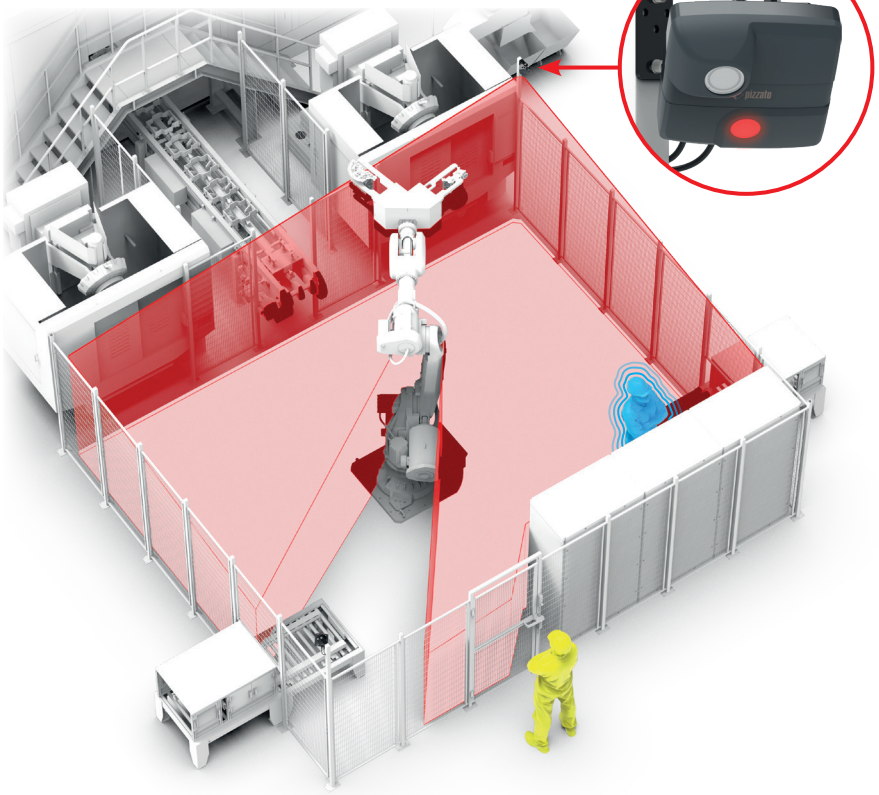
OSSD outputs enabled

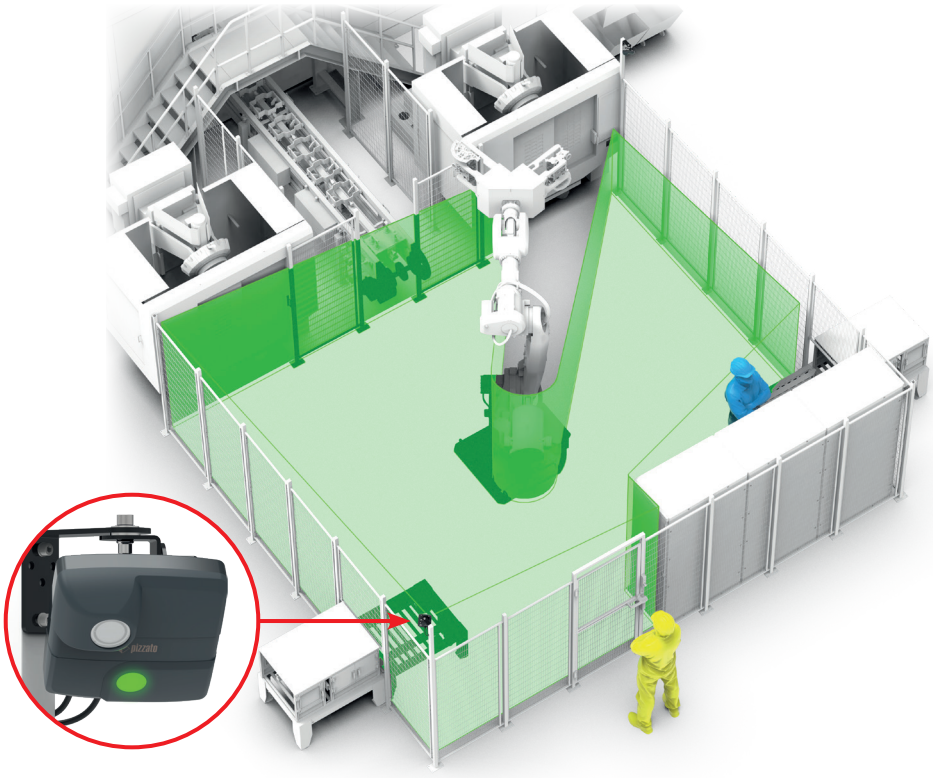


MOTION DETECTED INSIDE THE MONITORED AREA

The operator presses the START button to start up the machine.







One of the two SafetySight Iridio devices detects operator motion within the monitored area and prevents start-up by keeping the OSSD safety outputs disabled.

The safety PLC, having not received permission from one of the two devices, does not start up the machine.

OSSD outputs disabled



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