

What Happened?

Maximum insight through event-driven image or video recording up to 900 s before the trigger.

VOC—Industrial Event Camera



Your automation, our passion.

Clearly Identify Causes

Why was the emergency shutdown triggered? Where did the processing error occur? What exactly happened? The VOC industrial event camera provides immediate insight, even in areas that are difficult to access. Its recordings provide clear answers to process-related questions.



Three versions

3

Event-driven
image or video recordings



Operating temperature
-30 °C ... +50 °C



Strong data protection



Wide variety
of trigger options

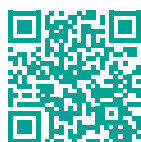


Record Relevant Events

The integrated ring buffer continuously stores up to 900 seconds of video stream with a resolution of up to 2 mega pixels. In single frame mode, the maximum resolution is 12 mega pixels. Various triggers, an error or an assigned event, activate the review function: The defined recording can cover up to 900 seconds before and after the event. The Standard version comes with 8 GB of integrated storage, the Advanced and Performance models come with 24 GB. With automatic or manually set focus options, the recording area can be aligned with the relevant part of the image.

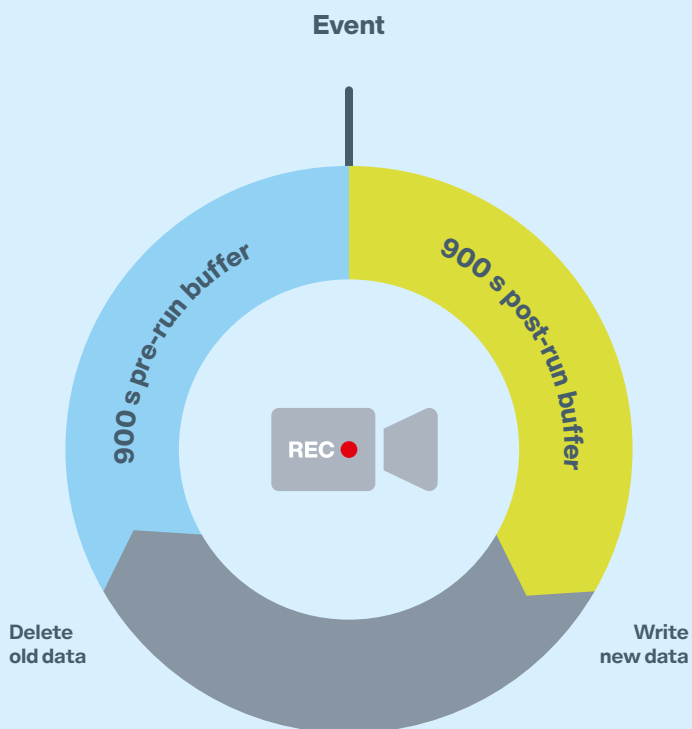
Clear Assignment, Fast Analysis

The file name contains a timestamp and, optionally, a customizable name. The date, time, and camera name can be displayed in the video sequence. The UDP (user datagram protocol) interface allows custom text overlays to be added, such as for specific error messages. Trigger events are then displayed in text form.



For more information, visit
pepperl-fuchs.com/pf-voc

Technical Data	VOC12M-F356-B12-V1D-CR2S (Standard)	VOC12M-F356-B12-V1D-CR2A (Advanced)	VOC12M-F356-B12-V1D-CR2P (Performance)
Depth of focus	0.05 m ... ∞		
Operating temperature	-30 °C ... +50 °C		
Degree of protection	IP65		
Dimensions	91.2 × 8.2 × 30 mm		
Field of view	102° × 67°		
Event recording (resolution)	Picture: up to 12 MP (4608 × 2592), Video: up to 2 MP/Full HD (1920 × 1080) Up to 24 fps		
Event recording times	900 s before/after trigger at any resolution/frame rate (configurable)		
Image/video data availability	H.264/M4 (recording), H.264, WebRTC (livestream), RTSP H.264 (livestream for HMI panel)		
Data access	Web interface, REST API, RTSP stream, WebRTC stream, FTP		
Trigger	Digital input, UDP, web interface	Digital input, UDP, web interface, motion/brightness/acceleration, other camera	Digital input, UDP, web interface, motion/brightness/acceleration, other camera, human recognition
Data storage (internal)	8 GB	24 GB	24 GB
Real time clock	■	■	■
Digital zoom		■	■
Hiding of image areas		■	■
Face blurring			■
Human recognition			■
QR code reading			■



Highlights

- Event-driven image or video recordings up to 900 s before and after the trigger signal—for simple remote diagnosis or automatic documentation
- Fast analysis: recording of relevant situations with timestamp and memory as well as individual additional text
- Reliable privacy protection through hiding of defined image areas, face blurring, and deactivation of ring buffer
- Encrypted data transmission through HTTPS protocol ensures comprehensive cybersecurity
- Optimal adaptation to the application due to a wide variety of trigger options
- Easy integration into IT systems via REST API, integration of live streams via WebRTC and RTSP

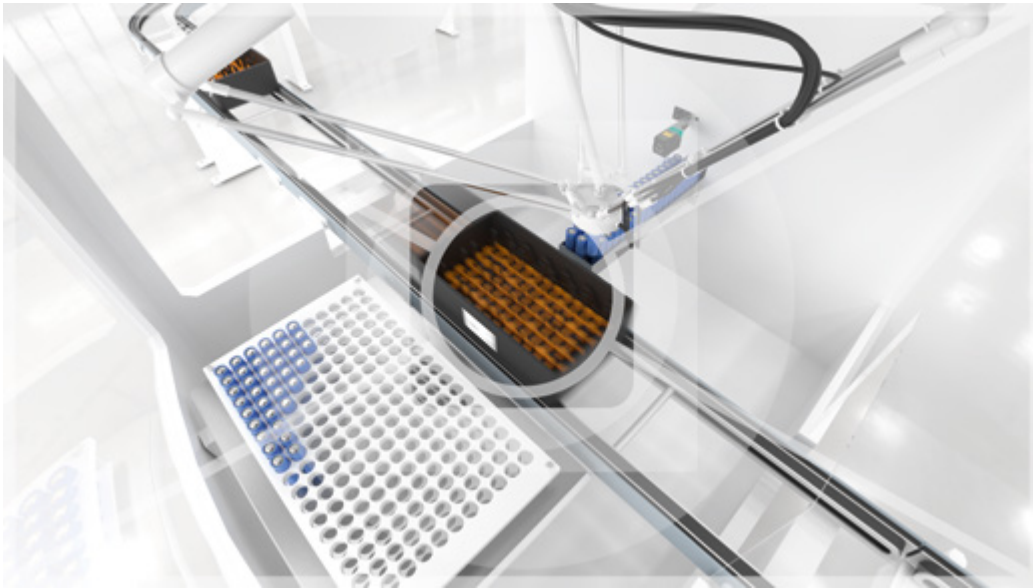
Flexible, Secure, and User-Friendly

The VOC event camera offers flexibility for adaptation to the application. A wide range of trigger options, easy integration, and a user-friendly interface make it ready for immediate use. At the same time, the device ensures strong data protection and comprehensive cybersecurity.

Data Protection and Cybersecurity

With the Advanced and Performance models, defined image areas can be hidden for data protection purposes. The Performance version also includes an option to automatically blur faces. The ring buffer can be switched off, for example, during maintenance work. The HTTPS protocol allows all data to be transmitted with end-to-end encryption. The upload of digital certificates ensures secure authentication.





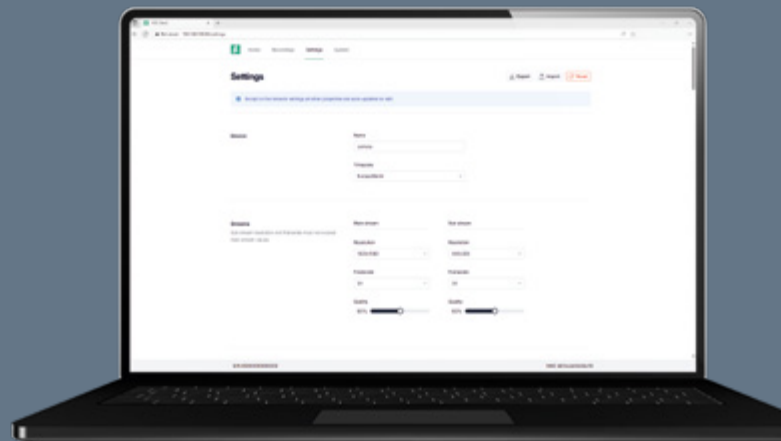
Wide Range of Trigger Options

The event camera receives a trigger signal via the digital input, UDP, the web interface, or the REST API, and triggers the storage of a recording. Additional trigger options are available in the Advanced and Performance versions:

- Motion
- Brightness change
- Acceleration
- Forwarding of the trigger signal from another camera
- Person detection (Performance version)

Easy Integration

The event camera can be configured easily and intuitively via the web interface. Up to six cameras can be linked together so that their live streams can be viewed simultaneously in a browser window. A custom user interface and direct integration into the IT system can be easily programmed via the REST API. No external software is required to use the camera.

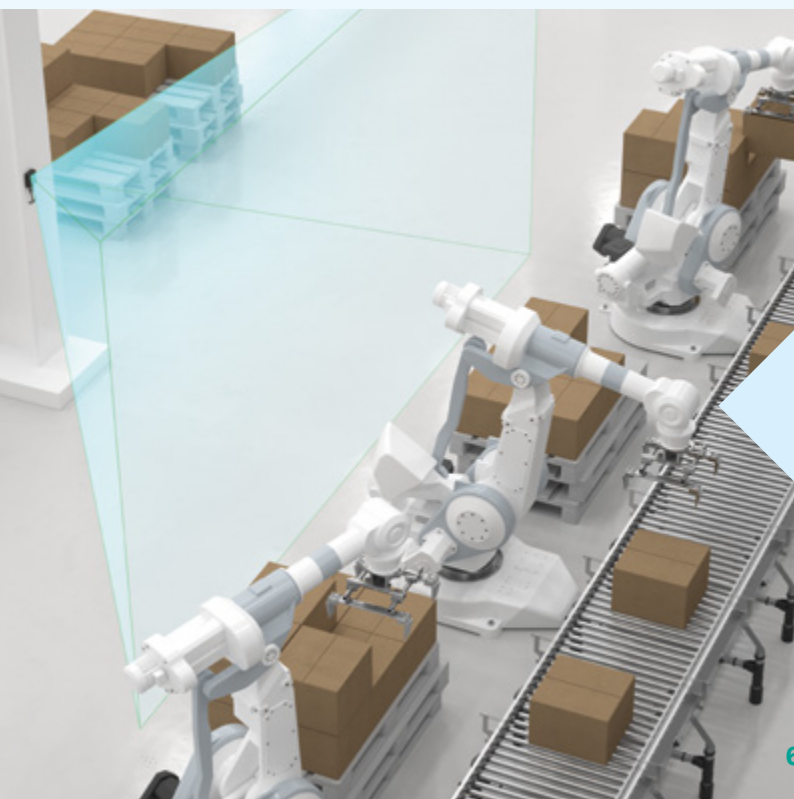


Logistics, Manufacturing, and Security Areas

The VOC industrial event camera ensures transparency in a variety of applications. Event-driven recording enables rapid analysis and complete documentation of relevant processes. Access, material flows, and automated procedures are continuously monitored—for comprehensive process reliability, quality control, and traceability.

Warehouse Processes at a Glance

Processes in areas of material handling that are difficult to access or not visible can be reliably monitored with the event camera. For example, storage and retrieval in a high-bay warehouse can be recorded and documented. The data is available for fault analysis and provides a solid basis for event-based optimization of material flows and warehouse processes.

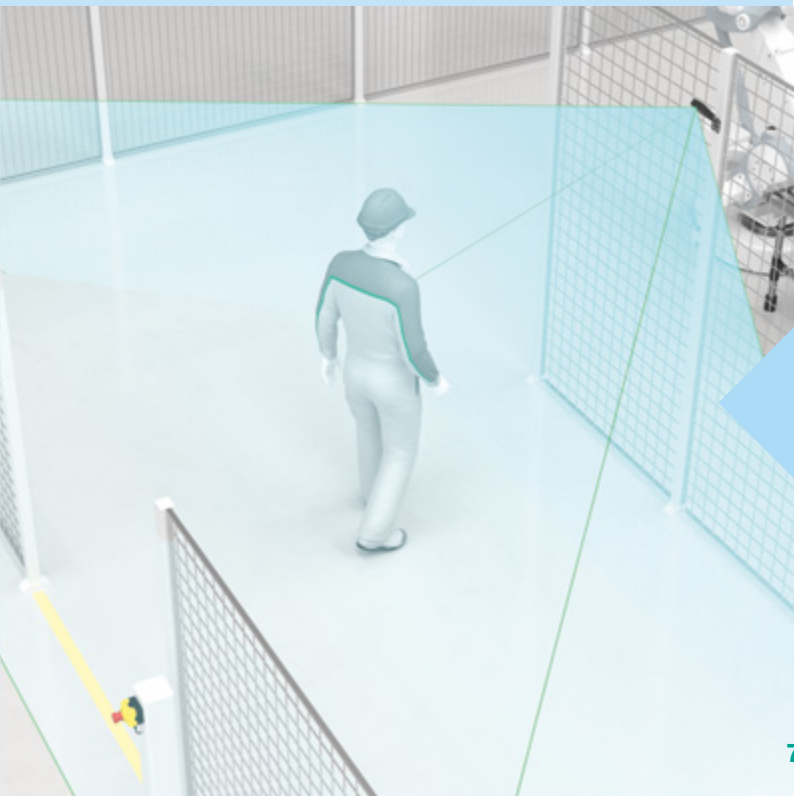
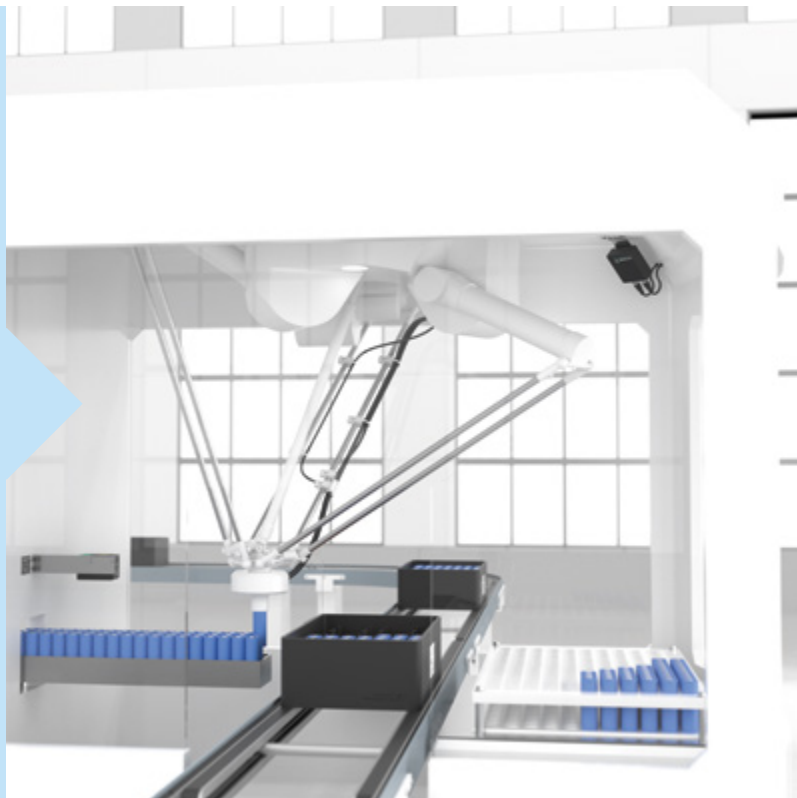


Monitoring of Palletizing Processes

In logistics, the loading and unloading of pallets is a central process step. With the VOC, transfers, movements, and gripping processes can be seamlessly monitored and documented. The data allows early detection of deviations in the material flow, such as incorrect stacking. In addition, through documentation of the palletizing process, it can be proven that palletizing was performed in accordance with regulations in the event of problems in the subsequent process. Strict privacy protection is ensured through face blurring, hiding defined areas, and disabling recording during service calls.

Detailed Analysis in Manufacturing Processes

In every manufacturing process, there are steps that have a decisive impact on product quality, such as in battery module assembly. The event camera monitors particularly critical sub-processes, documents deviations, records relevant events, and enables easy remote diagnosis. The evaluation of the data creates a solid basis for detailed analysis, targeted troubleshooting, and efficient process optimization.



Documented Access to Secure Areas

The VOC monitors access areas protected by sensor technology and records the triggering event each time the system stops. This allows the situation to be assessed quickly and thoroughly, even remotely. The Performance version features an AI-supported algorithm for detecting human presence. The Advanced and Performance models offer additional motion triggers: It is possible to trace exactly who or what violated an access restriction.

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