VEZHA

Hard hats detector

Opportunities:

- Detection of safety hard hats on the heads of people in the frame
- Contain all events in the Event Log: frame, camera and time
- Instant notification of the absence of hard hat on a person's head into the system
- Notification sending settings: directly to the system, to Email / Telegram / SMS
- Access restrictions for a specific user group
- Adjustment of the check interval and the interval of sending of absence of hard hats

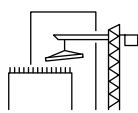**(!) Absent hard hat**

Sector: **2**
25.11.2019   01:41:26

Flexibility

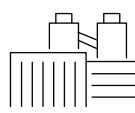### Security

Scalable

Areas of use:

| construction | plants | factories | logistics centers, warehouses | thermal, nuclear power plants |

Control the level of safety at construction or industrial sites

Prevention of industrial or construction injury

Monitoring the usage of safety rules in the field of use of equipment and carrying out of assembly works

Control of discipline at the construction site or at the sites of filling/ discharge of raw materials

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Hard hats detector

Minimum server and client requirements for 1 video stream

CPU	**Intel Core i5-5575 and newer**
MEMORY, RAM	**2 GB RAM**
HDD	**128 GB**
OPERATING SYSTEM	**Ubuntu 18.04**
GPU	**Nvidia Pascal (core architecture) or newer**
VIDEO MEMORY	**520 MB service for 100 streams (1 frame per second)**

Specifications

Detecting time	**8-15 ms**
Head size	**min: 45x45 px; recomended: 90x90 px**
Processing time	**4 to 6 ms**
Supported protocols	**RTSP, H264 Motion JPEG JPEG AVI**
VMS	**MILESTONE**
Supported cameras	**All cameras, RTSP**
Maximum number of cameras	**Unlimited, depending on the PC or Server**
Other video sources	**Avi Files, Ficheros Jpeg, Bmp**
Database	**MS SQL Server Express, MySQL, PostgreSQL**
Third Party Integration	**JSON messages via Http or MessageQueue**
Notifications	**Email, SMS, Telegram**
Language	**Ukrainian, German, French, Russian, English**

Video stream requirements

Connections	**RTSP**
Codecs	**H.264/MJPEG**
Frame rate	**15+**
Resolution	**min: 720p, recommended: 1080p, max: 4k**
CCD / CMOS:	**1 / 1.8 or higher**