



**AMETEK**



# Safety From Every Perspective

**INTRODUCING OUR NEW TVI  
PERSON DETECTION SYSTEM**

# + MORE RELIABLE SAFETY THANKS TO ARTIFICIAL INTELLIGENCE +



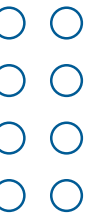
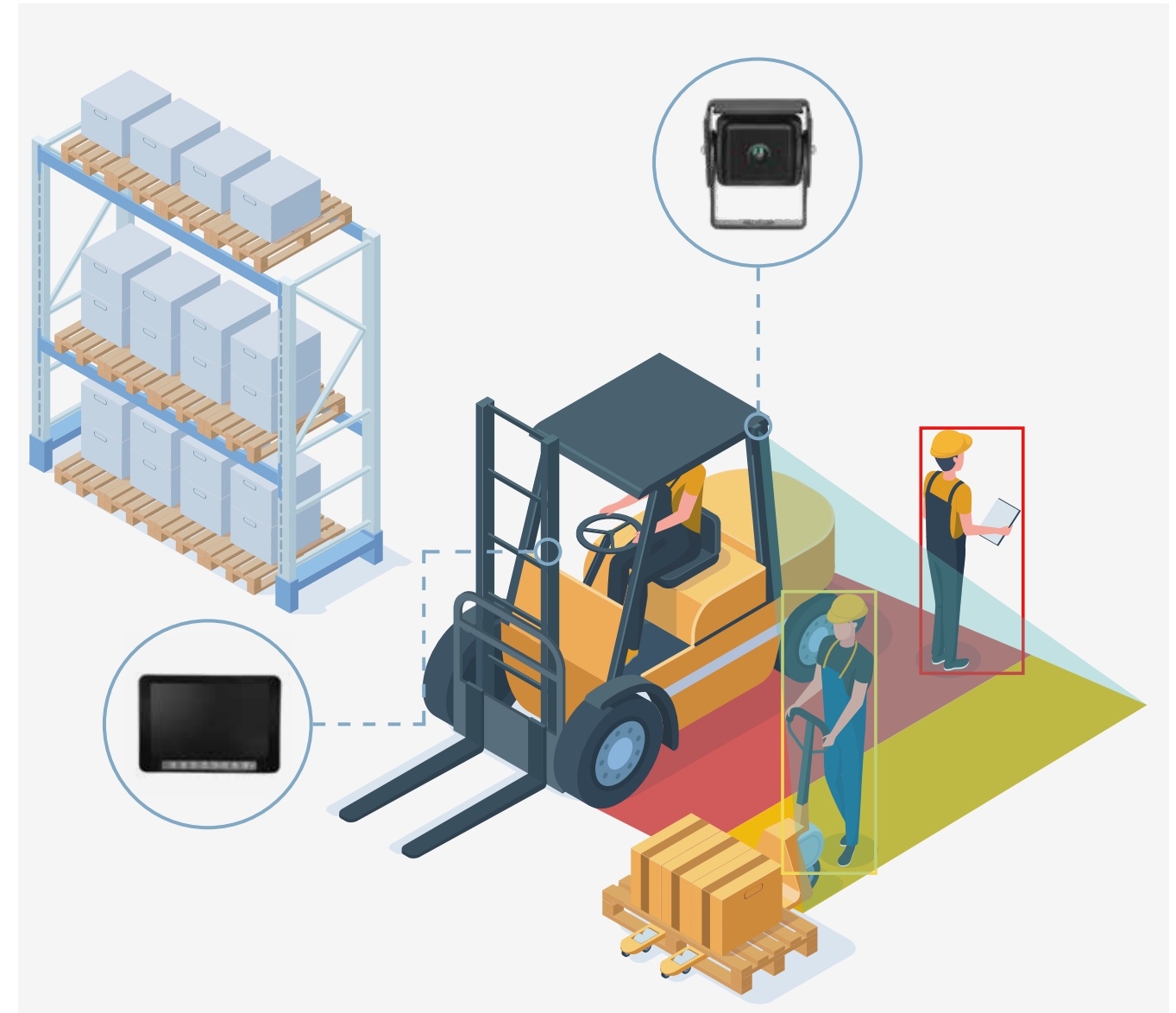
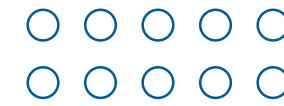
The TVI person detection system by Motec offers an innovative solution to enhance vehicle and personnel safety. Specially trained AI software recognizes persons in the defined warning zone and alerts the operator, providing vastly improved safety. Alarm signals are effectively filtered to prevent false alarms that could result in stress and desensitization of the driver. Only relevant

warning signals reach the driver, eliminating unnecessary alerts.

The result: Improved reaction time, enhanced vehicle and personnel safety, reduced risk of accidents and reduced costs.

## Top Features

- **AI recognition of pedestrians**
- **Alert through filtered video and audio signals**
- **Additional detection of moving objects**
- **Configurable warning and danger zones**



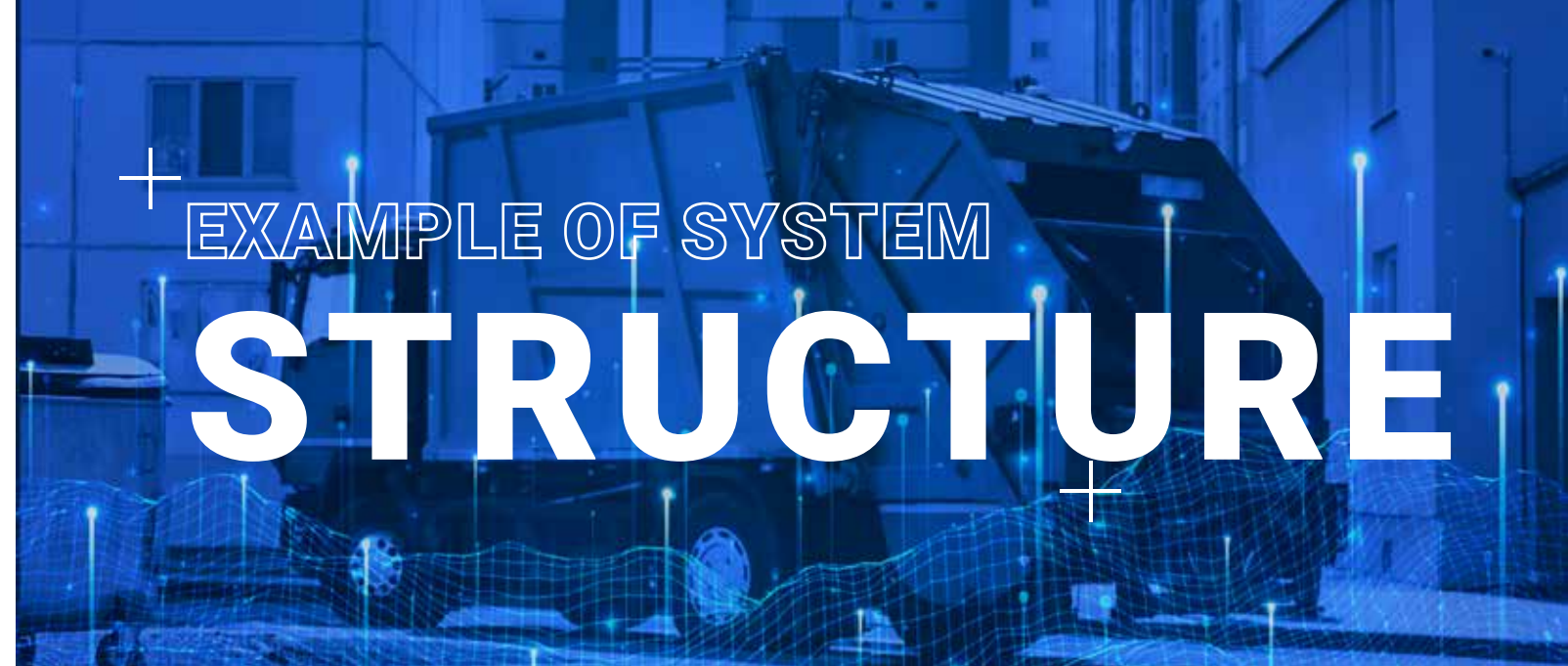
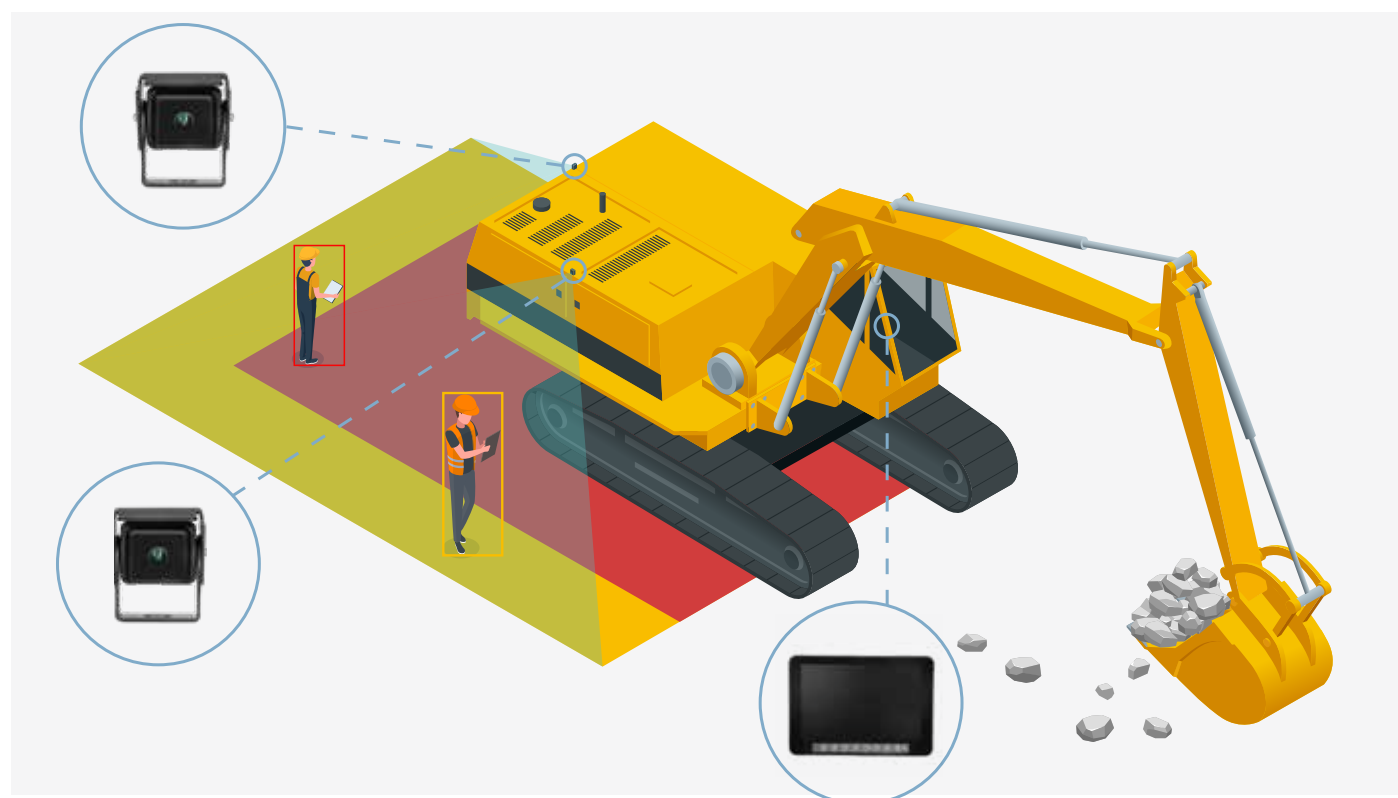
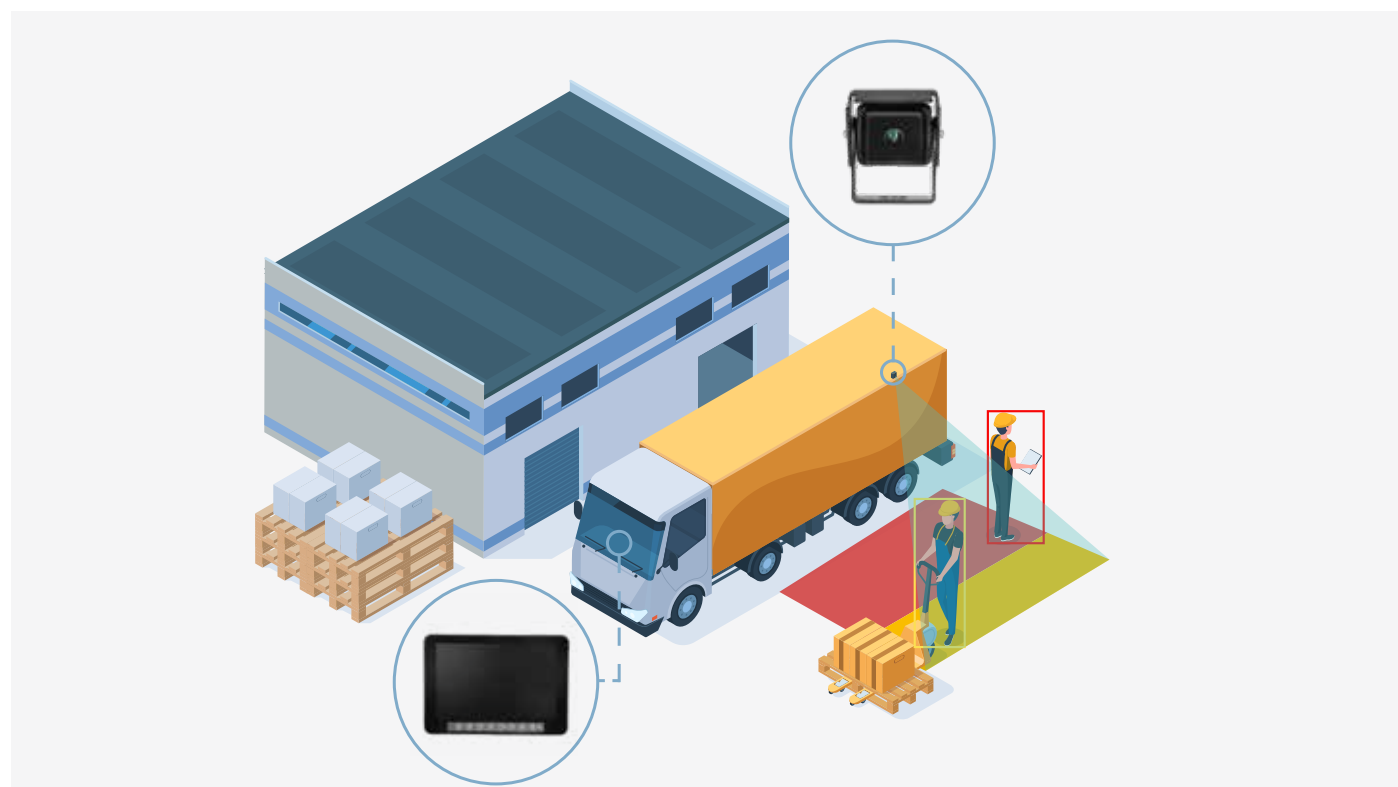
## Improved safety through person detection

Our TVI person detection system minimizes false alarms and enhances reaction time to risks. With the integration of AI, relevant information is filtered for the driver – due to intelligent person recognition and detection of moving objects. Up to 4 configurable AI cameras can be installed per monitor, providing flexibility across various warning zones, extensive field of view expansion, and therefore, even more reliable safety. Two different warning zones (yellow, red) can

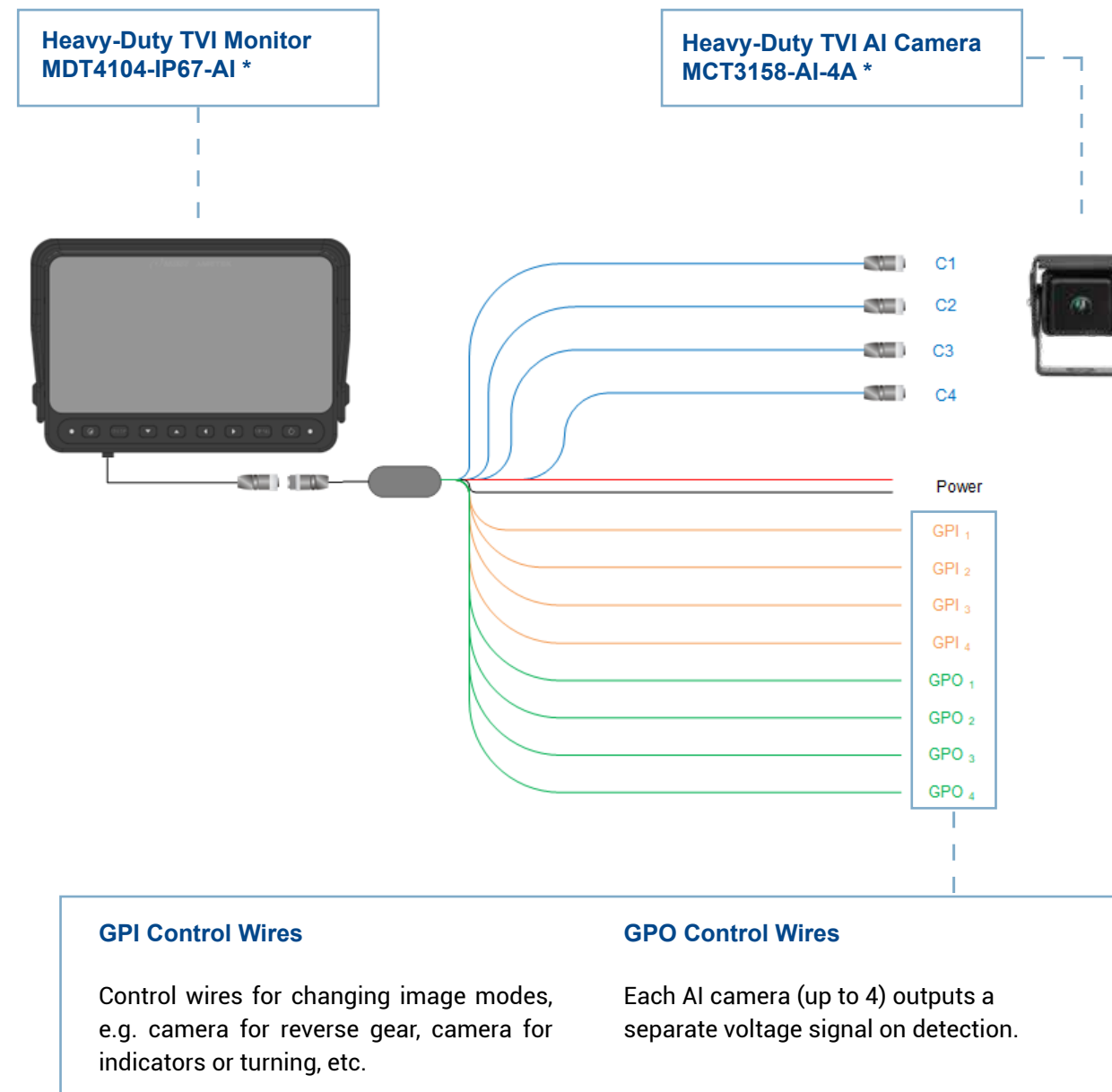
be freely configured for each MCT3158-AI-4A camera, each of which output different alarm signals. Because of TVI, our system provides a simple, cost-effective, and space-saving solution to upgrade existing analog base systems to HD image quality, thereby optimizing future viability. Additionally, our system consists of few individual components, simplifying the assembly and installation process significantly - Plug & Play.



# + ALTERNATIVE APPLICATION EXAMPLES +



# + EXAMPLE OF SYSTEM STRUCTURE +



\* Monitor also available in 7" size

\* Camera also available with infrared + white light LEDs

# + THE CORE OF OUR SYSTEM

## TVI AI CAMERA MCT3158-AI-4A

### Overview

The MCT3158-AI-4A is an intelligent camera based on AI with HD-TVI image quality. The compact camera is designed and manufactured as an object detection camera to recognise various objects such as people, motorbikes, bicycles, buses, trucks, etc. Its compact shape is perfect for use in large heavy-duty vehicles

### Features

- Recognize people (optional motorcycles, bicycles, buses, trucks)
- Optimized recognition distance and recognition area (ROI) can be set for each installed vehicle
- High-quality FHD video (1080P) / digital transmission without loss of quality
- Video alarm and alarm sound output / external speaker
- Directly connected to a compatible monitor without a separate power supply
- High Dynamic Range Function (HDR)
- IR and white LEDs also available (8 LED)



# + MAINTAINING THE COMPLETE OVERVIEW

## TVI AI MONITOR MDT4xx4-AI

### Overview

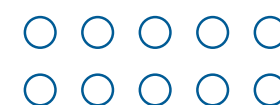
The MDT4104-IP67-AI monitor is a robust, waterproof heavy-duty monitor. Various image modes can be displayed on the screen and up to 4 camera images can be displayed simultaneously, including interval controlled image switching.

### Features 10" Monitor

- 10" monitor (25,9 cm screen diagonal)
- Mix HD 720P / FHD 1080P (TVI, AHD type) and CVBS available
- 4CH quad support
- Adopting high resolution LCD panel
- All functions are displayed on screen (OSD function)
- Free voltage (12...24 V DC, max. 32 V)
- Waterproof (IP67)
- Conjunction with AI camera

### Features 7"-Monitor

- 7-inch monitor (17.8 cm screen diagonal)
- Mix HD 720P/FHD 1080P (TVI, AHD-type) and CVBS available
- 4CH quad support
- High-resolution LCD screen
- All functions are displayed on the screen (OSD function)
- Free voltage (12...24 V DC; max. 32 V)
- Waterproof (IP67)
- Connection with AI camera



MDT4104-AI



MDT4074-AI





+ MORE RELIABILITY, FLEXIBILITY &

# SAFETY!



Please contact us for further  
information:

[www.motec-cameras.com/en/contact](http://www.motec-cameras.com/en/contact)



**Motec GmbH**

Oberweyerer Strasse 21  
65589 Hadamar  
GERMANY

Phone +49 6433-9145 0  
[motec.info@ametek.com](mailto:motec.info@ametek.com)  
[www.motec-cameras.com](http://www.motec-cameras.com)

