DBC-AI20 SmartVision AI
Avoiding collisions with AI

DESCRIPTION

Artificial intelligence for enhanced safety

Whether in work areas, maneuvering areas, or blind spots, the Smart Vision AI Camera from AXION offers a simple solution for preventing accidents involving people in the detection range of vehicles and machinery.
The fully integrated „embedded" AI algorithm recognizes people in a freely definable area without having to rely on additional hardware or control devices.

The multi-level warning concept helps the vehicle driver to assess their surroundings more easily and to react to dangerous situations in good time.

Monitoring zones and warning levels are configured via an additional Wi-Fi-enabled configuration module. A range of AXION AHD monitors is available to ensure high-quality video display.

SPECIAL FEATURES

- ⊘ Reliable detection of people
- ⊘ Optional vehicle detection
- ⊘ Monitoring of maneuvering and work areas
- ⊘ Reliable person detection despite partial obstruction
- ⊘ Configurable monitoring zones and warning levels
- ⊘ Visual marking of people and vehicles
- ⊘ Audible alarm to alert the driver
- ⊘ Robust design
- ⊘ Eligible for funding by BG Bau and SVLFG (German accident insurance for construction and agriculture)

Application examples

DBC-AI20 SMART VISION

PASSED
DBC-AI20 Smart Vision
DGUV test per GS-BAU-71

- Intelligent detection of people and/or vehicles
- Detection range 12 m and further
- Horizontal viewing angle of 140°
- AHD video output
- Resolution: 2 MP (1080p)
- Frame rate: 25 / 30 FPS
- Audio output for warning signals
- Voltage: 10 – 32 Vdc
- Operating temperature: -20°C to +70°C
- Dust and water-protected according to IP69K
- Mounting height up to 4 m
- Combinable with AXION AHD compatible monitors

Recommended monitors

CRV 7105 M HD
7" LCD AHD monitor
2 camera inputs

CRV 7103 M HD
7" LCD AHD monitor
3 camera inputs
IP64

CRV 7108 Q HD
7" LCD AHD monitor
4 camera inputs

CRV 1110 DUA HD
10" LCD AHD monitor
2 camera inputs

CRV 7270 Quad HD
7" LCD AHD monitor
4 cameras / 1 video
IP69K

CRV 1210 Quad HD
10" LCD AHD monitor
4 cameras / 1 video
IP69K

Possible application areas

▶ Agriculture ▶ Logistics ▶ Municipal equipment ▶ Waste managment ▶ Construction

SAFETY IS ✔ ELIGIBLE

The AI-based AXION DBC-AI20 camera system has already proven its reliability and quality in versatile practical applications.
Now, the camera system is also eligible for promotion in the agriculture and construction sectors.
The DBC-AI20 camera, together with selected monitors, has been successfully tested according to the GS-BAU-71 testing guideline. This ensures the camera system reliably detects people in typical construction site scenarios and effectively warns the driver.

By meeting the relevant testing guideline, the DBC-AI20 camera systems have gained eligibility from the German Social Accident Insurance for the construction industry (BG Bau). The Agricultural Social Insurance (SVLFG) offers its members similar subsidy to improve workplace safety.

Product catalogue

Further information is available from the occupational safety departments of the relevant insurance providers.