PROX-EYE™ DUAL

Visual Guidance System

YOUR CONSTRUCTION TECHNOLOGY PROVIDER

SITECH®

PROX-EYE™ DUAL
Visual Guidance System

ZERO HARM ON WORKSITES

PROX-EYE DUAL by Correct AI is a visual guidance system that combines HD cameras, LiDAR sensors and artificial intelligence software to assist vehicle operators monitor and dramatically reduce risks around their equipment.

The system provides real-time proximity awareness and terrain hazard notification to operators of heavy industrial equipment. It is designed for equipment owners and operators of application-specific vehicles operating in industrial environments.

PROX-EYE is a cost effective and durable system revolutionising the way that industrial vehicles are managed on challenging worksites.

Front and rear camera/ LiDAR modules

7" touchscreen operator monitor

In-cab operator view

CORRECT-AI

Industrial Robotics & Artificial Intelligence

PROX EYE by Correct-AI is the most advanced system on the market, utilising the most precise object detection technology available.

No other system offers the proprietary AI software that forms part of the solution. The cameras and LiDAR sensors provide vehicle operators with intelligent warnings of imminent danger, minimising the risk of collisions, rollovers and struck bys.

The unique combination of technology means that the system works in any environmental condition - such as complete darkness, fog, dust, snow, heavy rain, or direct sunlight.

FEATURES

- High definition camera
- Highresolution LiDAR
- 7" display
- Mounted inside opreator's cab
- Customisable detection range
- Customisable hazard classification
- Elevation mapping
- Roll-over risk warning
- Data collection of all audible alert zone encounters
- Video documentation of equipment operation

BENEFITS

Safety
- Accident-free industrial worksites
- Incident prevention

Data Archiving
- Records sensor data for post incident and efficiency analysis

Slope Detection
- Continuous monitoring of grade changes

Roll and Pitch Angle
- Continuous reporting of roll and pitch angles to prevent roll-overs

Enhanced Operator Capacity
- Displays, classifies and shows all hazards and their distance to eliminate false positives

Increased Operator Confidence
- Provides real-time proximity awareness and terrain-hazard notifications whilst recording operational data for future review

Increased Efficiency and Productivity
- Gains achieved through enhanced operator capacity and confidence
- Lower operating and repair costs

SAMPLE APPLICATIONS

- Agriculture
- Construction
- Energy
- Logistics
- Mining
- Pipeline

PROX-EYE BY Correct-Ai

Correct-Ai
Industrial Robotics + Artificial Intelligence

SITECH

PROX-EYE BY Correct-Ai

Correct-Ai Industrial Robotics + Artificial Intelligence

correct-ai.com

PRODUCT SPECIFICATIONS

Monitor: 7" LCD Touch Screen Monitor

Specifications

Screen	Resolution: 1024 x 600 Sensitivity: Tough Screen Brightness: 500 cd/m2 Contrast Ratio: 500:1 Backlight LED View Angles: 50/60B/65L/65R
Power	12 VDC
Mount	VESA Mount 75mm x 75mm (100mm x 100mm) Metal Case

Environmental

Operating Temperature	-20° to ~60°C (-4° to 140°F)
Vibration Tolerance	10 G
IP Rating	IP 65

Mechanical

Dimensions	204 x 132 x 42 mm
Weight Approx.	2000 g

Cameras: 1080P HD Cameras

Specifications

Sensors	3 MP IMX307 Black Light CMOS Sensor:
Image Output	1920 x 1080 @ 25 fps
Shutter Speed	1/50 (1/60) seconds to 1/10,000 seconds
Field of View (FOV)	100° (horizontal)
Day-Night Mode	Support IR-CUT:
Network Interface	RJ45 Ethernet Interface
Power	12 VDC/ 2 A
Power Consumption	≤ 3 W:
Night Vision	Built-in IR LEDs

Environmental

Operating Temperature Range	-40° to 85°C
Storage Temperature Range	-40° to 85°C
IP Rating	IP 67

Mechanical

Dimensions	77 x 115 x 84 mm
Weight	Approx. 1200 g

SITECH®

PROX-EYE BY Correct-Ai

Correct-Ai Industrial Robotics + Artificial Intelligence

correct-ai.com

PRODUCT SPECIFICATIONS

LiDAR: High Resolution Point Cloud

Specifications

Laser Wavelength	905 nm
Laser Safety	Class 1 (IEC 60825-1:2014) - (safe for eyes)
Detection Range (@100klx)	90 m @ 10% Reflectivity 130 m @ 20% Reflectivity 260 m @ 80% Reflectivity
Field of View (FOV)	82° (horizontal) x 25° (vertical)
Point Rate	240,000 points/ s
Data Port	100 Mbps Ethernet
IMU	Built-in Inertial Measureent Unit (IMU)
Power	12 W (Startup: 30 W)
Power Supply Voltage Range	10-15 VDC (Recommended 12 VDC and 30 W or higher)

Environmental

Operating Termperature Range	-40° to 85°C
Storage Temperature Range	-40° to 85°C
IP Rating	IP 67

Mechanical

Dimensions	77 x 115 x 84 mm
Weight	Approx. 2000 g

System Performance

Specifications

Reaction Time	≤0.5 s
Obstacle Detection Range and Types	Humans ≤ 10 m Vehicles ≤ 100 m General Obstacles (larger than 30 cm) ≤ 100 m
Notifications	Adjustable by the operator for three zones
Situational Awareness	Obstacles Detection Obstacles Identification Depth Map Elevation Map Road Slope Vehicle Road and Pitch Angles

SITECH

www.sitechsolutions.com.au
2 Voyager Circuit Glendenning 2761
T: 02 6788 2155 | E: sales@sitechsolutions.com.au

YOUR CONSTRUCTION TECHNOLOGY PROVIDER

SITECH®