

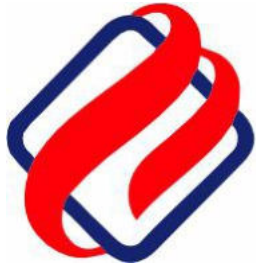
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Vendor Code: 10110187
أرامكو السعودية
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VISION رؤية
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA



EXPERT TIME

PWAS & LMI MANUFACTURER



Early
Warning,
Early
Action.

www.experttime.net





About Our Company

Welcome to Expert Time, A leading Manufacturer of Proximity warning and Alerting system where innovation meets excellence. Our mission is to pioneer safer environments through the development and implementation of cutting-edge solutions.

With a team of highly skilled technicians and solution architects, each boasting over a decade of experience in the field, we possess an unparalleled depth of knowledge. From conceptualization to execution, we breathe life into solutions tailored to your unique needs.

At Expert Time, quality is our cornerstone. We never compromise on the standards of our products or the satisfaction of our clients. When you choose to partner with us, you gain access to a wealth of expertise and a commitment to delivering solutions that exceed expectations.

Join us in creating a safer tomorrow, one alerting system at a time. Welcome to Expert Time, where safety is paramount, and innovation knows no bounds





TYPES OF PWAS

Radar PWAS | Combo PWAS | Radar 360 | Cellular IOT PWAS

01. Radar PWAS

Our Radar PWAS (Proximity Warning and Alerting System) harnesses advanced radar technology to provide real-time proximity detection and alerts in industrial environments. With precise detection capabilities, it ensures enhanced safety by alerting personnel to potential hazards, allowing for timely intervention and accident prevention.

FEATURES AND TECHNICAL SPECIFICATIONS

- Advanced high performance, low power 32-Bit Microcontroller from Microchip for faster processing & detect multiple objects at high speed.
- Latest version high sensitivity 24GHz millimeter wave radar sensor
- Data logger upto 20,000 logs as per ARAMCO standards
- Mobile application to set the equipment no., threshold distance & download reports via Bluetooth communication.
- Reset switch with power indication & highly audible 80dB Metallic Buzzer
- IP68 Polycarbonate robust enclosure & mountings designed to work in harsh conditions with operating temperature upto 90 degrees.
- Operating Voltage: 5V-30VDC
- Enclosure Dimensions.
25x125 x60mm - Control Unit
25 x 175 x 60mm - Sensor Unit
- Sensor Detection: Up to 180 degrees wide angle
- Sensor Operating Frequency: 23.5G-24.5GHz
- Sensor Detection Distance: 8m Proximity human presence detection as per ARAMCO standards

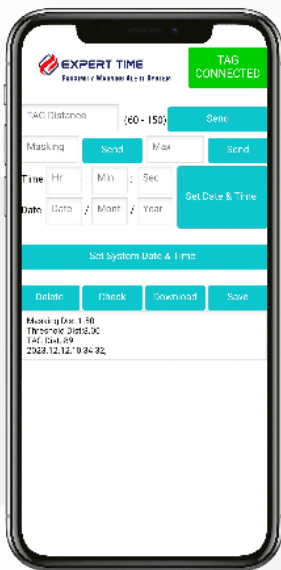




02. Combo PWAS

The Combo PWAS integrates multiple sensing technologies, including radar, lidar, and camera systems, to offer comprehensive proximity warning and alerting capabilities. This versatile solution provides a multi-layered approach to safety, enabling effective detection and mitigation of risks in diverse operational settings.

Mobile Application



FEATURES AND TECHNICAL SPECIFICATIONS

- Advanced high performance, low power 32-Bit Microcontroller from Microchip for faster processing & detect multiple objects at high speed.
- Dual Controlling System for high accuracy and low latency.
- Combination of Latest version high sensitivity 24GHz millimetre wave multiple Radar sensor and Tag for 360 degree sensing range.
- Data logger up to 20,000 logs.
- Easy Configuration and data retrieving.
- Reset switch with power indication & highly audible 80dB Metallic Buzzer.
- Differential LED system to understand the obstacle around the equipment.
- Ip68 Polycarbonate robust enclosure & mountings designed to work in harsh conditions with UV resistance and operating temperature up to 90 degrees.
- Operating Voltage: 12V-30VDC.
- Sensor Operating Frequency: 23.5G-24.5GHz.
- Tag Detection Range: 6m to 10m with 360 degree coverage.
- Sensor Detection Distance: 8m TO 12m Proximity human presence detections.

03. Radar 360°



FEATURES AND TECHNICAL SPECIFICATIONS

- Advanced high performance, low power 32-Bit Microcontroller from Microchip for faster processing & detect multiple objects at high speed
- Latest version high sensitivity 24GHz millimetre wave radar sensor
- Data logger up to 20,000 logs
- Mobile application to set the Masking distance, Threshold distance, set Timestamp & download reports via Bluetooth communication
- Operating Mode, Sensor identity light indicator & highly audible 80dB Metallic Buzzer
- Ip68 Polycarbonate robust enclosure & mountings designed to work in harsh conditions with operating temperature up to 90C
- Operating Voltage: 5V-24V DC
- Enclosure Dimensions
- Sensor Detection: 120 degrees wide angle x 3 directions
- Sensor Operating Frequency: 23.5G- 24.5GHz
- Sensor Detection Distance: 8m Proximity human presence detection
- Sensor Detection: 120 degrees wide angle x 3 directions
- Sensor Operating Frequency: 23.5G-24.5GHz
- Sensor Detection Distance: 8m Proximity human presence detection
- 125x175 x60mm – Control Unit
- 80 x 82 x 56 mm – Left - Sensor Unit
- 80 x 82 x 56 mm – Right - Sensor Unit
- 80 x 82 x 56 mm – Rear - Sensor Unit



04. Cellular IOT PWAS



S.No	Date	Time	Distance(m)	Status
1	2023.5.20	17:02:13	3.03	Idle
2	2023.5.20	17:02:36	4.75	Moving
3	2023.5.20	17:02:43	3.85	Moving
4	2023.5.20	17:02:49	3.32	Idle
5	2023.5.20	17:02:57	3.13	Idle

FEATURES AND TECHNICAL SPECIFICATION

- Advanced high performance, low power 32-Bit Microcontroller from Microchip for faster processing & detect multiple objects at high speed.
- Latest version high sensitivity 24GHz millimetre wave radar sensor.
- Online Data logger through Cellular Network.
- Control Unit includes a 4G LTE module with SIM card socket, SMA antenna & UART interface. Supports wireless communication modes of LTE-TDD/LTE- FDD/GSM/GPRS/EDGE.
- Reset switch with power indication & 80dB Continuous Sound Metallic Buzzer.
- IP68 Polycarbonate robust enclosure & mountings designed to work in harsh conditions with
- operating temperature up to 90 degrees.
- Operating Voltage: 5V-30V DC.
- Enclosure Dimensions:
 - 125x175 x60mm Control Unit.
 - 125 x 125 x 60 mm Sensor Unit.
- Sensor Detection: Upto 180° wide angle.
- Sensor Operating Frequency: 23.5G-24.5GHz.
- Sensor Detection Distance: 8m to 10m Proximity human presence detection.



AI Based Monitor and Camera



IoT device:

Real-time monitoring of environmental conditions and equipment status. Provides valuable data for predictive maintenance and early detection of potential issues.



Camera:

High-resolution video surveillance for enhanced security. Detects unauthorized access, suspicious activities, and potential hazards.



AI Display Unit:

User-friendly interface for visualizing data and alerts. Offers intuitive control and management of the entire system.



Alarm:

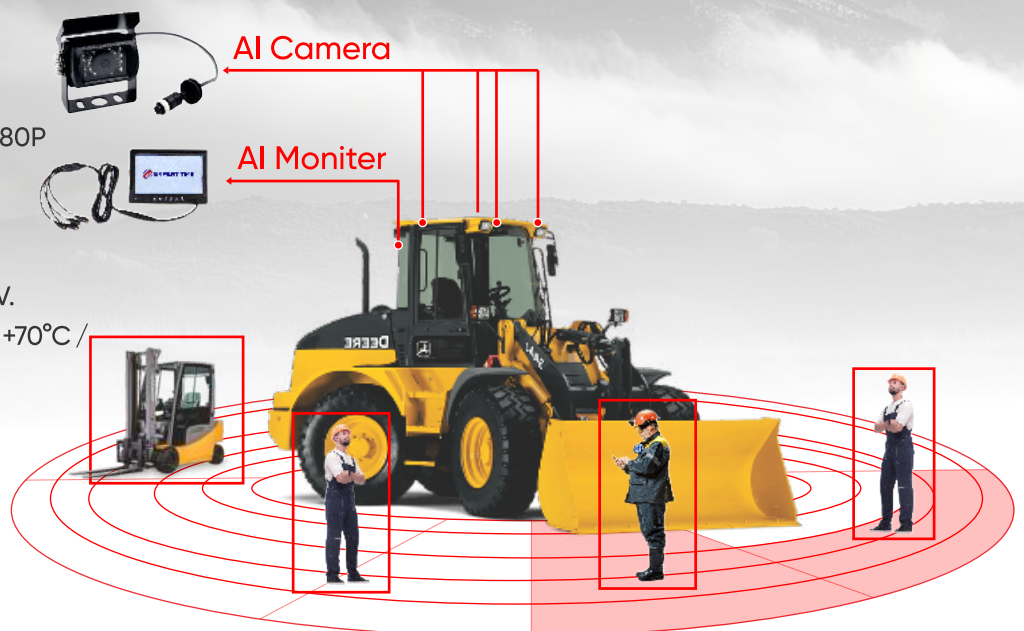
Instant notifications for critical events, ensuring timely response. Customizable alerts based on specific thresholds and conditions.

Specification

- **LCD - MONITOR**
- 7 inch IPS monitor
- Supports both NTSC and PAL video systems
- Support up for 4 cameras
- Display effect can be changed for each individual camera Multiple Viewing Options - Single/Split Screen/Quad
- Parking guide lines (can be switched on/off) Resolution: 1024 (H) ×600 (V) AHD
- Contrast: 800:1
- Brightness: 600cd/m²
- Power Supply: DC 9-35V
- IP Rating : IP69K
- Power consumption: about 9W
- Operating temperature: -20°C ~ 70°C
- Storage temperature: -30°C ~ 80°C

- **CAMERAS**

- Image Sensor: 1/3 CMOS
- Resolution: 1280x720P/1920x1080P
- View Angle: 120°[H] 170°[D]
- TV System: PAL/NTSC
- Rating : IP69K
- Power Supply: It depends. DC 12V.
- Operating Temperature -20°C ~ +70°C /
- RH 95% Max
- Storage Temperature -30°C ~





7 Inch 4 Channel AHD Monitor

- Screen : 7" digital high definition panel
- Viewing angle : ALL View
- OSD CONTROL : Colour, Brightness, Contrast, Volume, Language (English, Chinese, Spanish etc.)
- DVR image quality : DVR recording 4 channels video signal, VGA resolution: 1920*1080, Recording speed: 60FPS, Storage format: TS
- Connector : 4PIN
- Power supply : DC 12V-40V wide voltage power supply, support ACC ignition
- Working temperature : -10°C to 70°C
- Storage temperature : -20°C to 80 °C

Camera SPEC



Features :

- Adopt 2 million progressive scan CMOS, capture Motion image without aliasing
- 0.01Lux@ (F1.2, AGC ON), 0LUX with IR
- Support AHD 1080P High Definition transfer
- Support IR-CUT switching, CDS external control, realize day and night monitoring
- Support digital wide dynamic
- Adaptive Digital Noise Reduction, 3D-DNR, 2D-DNR
- Video 6KV lightning protection, power supply large capacitor design
- Long Distance, No delay



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