

CV CUDAVISION

PIPELINE HEAVY EQUIPMENT ADVANCED RADAR-VISION SYSTEM

**Meets or Exceeds Specifications and Performance
Requirements for Pipeline Safe Work Guidelines**



CUDAVISION

**Industry Standard Radar Vision
for all Pipeline Equipment**



CUDAVISION and PRECO combine to provide complete collision avoidance systems for a wide range of equipment. Operating in extreme conditions, pipeline equipment requires safety solutions that can perform effectively regardless of environmental elements. With our Radar Vision safety solutions in place, operators can focus on the job at hand, knowing that they will be alerted if a person or object enters their blind zone.

Uses

- Dozers
- Excavators
- Sidebooms (pipelayers)
- Skidsteers
- Rock trucks
- Loaders
- Telehandler forklifts (zoom booms)

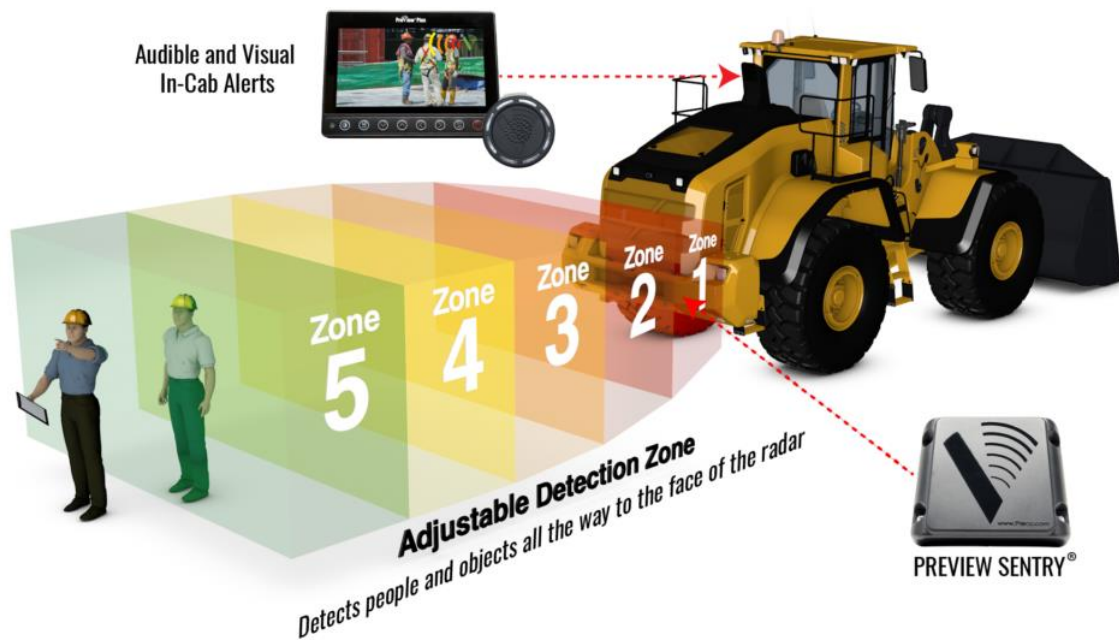


CVDAVISION

Multi Point Systems for Complete Perimeter Protection

CVES-1 System for: Bulldozers, Loaders, Graders and Rock Trucks includes: 1- CVSHDS-40 Fully Programable Proximity Radar System, 1-CVHD7M-40 Arctic Impact 7" LCD Monitor, 1- CVHDC-40 Heated Shock Proof IR Camera, 1-CVAC-10 Weatherproof Armored Cable. This provides full 150 degree rear vision and eliminates blind spots while the Radar detects any people or obstacles within the programable zone. Alerts are given to the operator through both audible and a 5 zone visual display.

CVES-2 System for Side Booms and Excavators includes: 2- CVSHDS-40 Fully Programable Proximity Radar Systems, 1-CVHD7M-40 Arctic Impact 7" LCD Monitor, 2- CVHDC-40 Heated Shock Proof IR Cameras, 2-CVAC-10 Weatherproof Armored Cables. The CVES- System for Excavators has the same backup protection as the CVES-1 as well as additional Radar and Camera coverage designed to monitor the right side of the excavator. The Radar can be custom programmed to ignore any unwanted sectors of the zone coverage therefore limiting any false alarms.





The Most Advanced, Reliable Radar Unit in the Industry

Heavy-duty industry accidents are costly and can bring an entire operation to a halt. Unfortunately, these accidents are on the rise. According to the Occupational Safety and Health Administration (OSHA), approximately 75% of struck-by fatalities involve heavy equipment. CUDA VISION believes that this is unacceptable and aims to significantly reduce the incidence and severity of heavy-duty equipment accidents by developing the most reliable safety solutions available on the market anywhere in the world today.



We have the industry's most flexible, accurate, and powerful active blind spot monitoring solution available. Our system has a fully configurable detection zone, with the ability to detect objects from the face of the radar up to 30 meters (98 feet), and the width of the detection zone is adjustable to fit almost all vehicle types.

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Proven Technology... We Have Been Building and Installing Rear Vision Camera Systems on Heavy Equipment for 25 Years



Heavy equipment operators work in environmentally challenging locations. Many of the systems marketed to heavy-duty industries are not built to withstand the abuse that pipeline equipment inflicts on technology.

At CUDAVISION we have installed our equipment on the most demanding applications. Reliability is our highest priority and experience has taught us how to overcome.

Our Heavy Duty monitors and cameras are built with electronics designed to handle regular exposure to extreme shock and G-forces. Furthermore all of our components are Arctic rated to withstand the ice cold temperatures of the North climate. Our cables are produced with armored braiding in order to avoid failure through abrasion and pinch points.





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Sensor Operator Display Specifications		Sensor Specifications	
Adjustable buzzer that is not possible to turn off	Yes	Programmable:	Yes
Display zone light brightness:	600	Operating Temperature:	-40°F to +185F (-40°C to +85°C)
Detection lights display	minimum of five zones	Vibration Rating	25 G, random, all three axis
External feed trigger	Yes	Shock Rating	50 G
Operating temperature:	-40°C	FCC – 47 CFR Part 15 Subpart B & C	Compliant with FCC Part 15.249
Indicator to alert if the detection system is not working.	Yes		
Camera Specifications			
Visual Resolution:	600 TV Lines	Vibration Rating:	Anti-vibration: ISO 16750-3 (Max. 17.3G)
Illuminating Distance:	10 Meters	Camera IP Rating:	IP69K
Shock Rating:	100 G	Connector IP Rating:	IP69K
		Operating Temperature:	-40°C - +70°C (BUILT-IN AUTO HEATER)
Monitor Specification			
Panel size:	7" TFT LCD	IP rating (Open cab):	IP69K waterproof monitor & Connectors
Resolution:	1024 (W)* R.G.B * 600 (H)	IP rating (Closed cab):	IP69K waterproof monitor & Connectors
Contrast ratio:	800:01:00		
Viewing angle:	U: 70°,D: 75°, R/L: 75°/75°	Suspension cab:	ISO 16750-3 MAX 6.3G
Brightness (Open cab):	500cd/m ²	ISO 13766:2006 Earth-moving machinery – Electromagnetic compatibility	Yes
Brightness (Closed cab):	500cd/m ²	ISO – 16750 1,2,3,4,5 (Climatic Loads)	Yes
Operating temperature range (Open cab):	-40°C	ANSI C63.4	Yes
Operating temperature range (Closed cab):	-30°C	47 CFR Part 15 Subpart B	Yes

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