

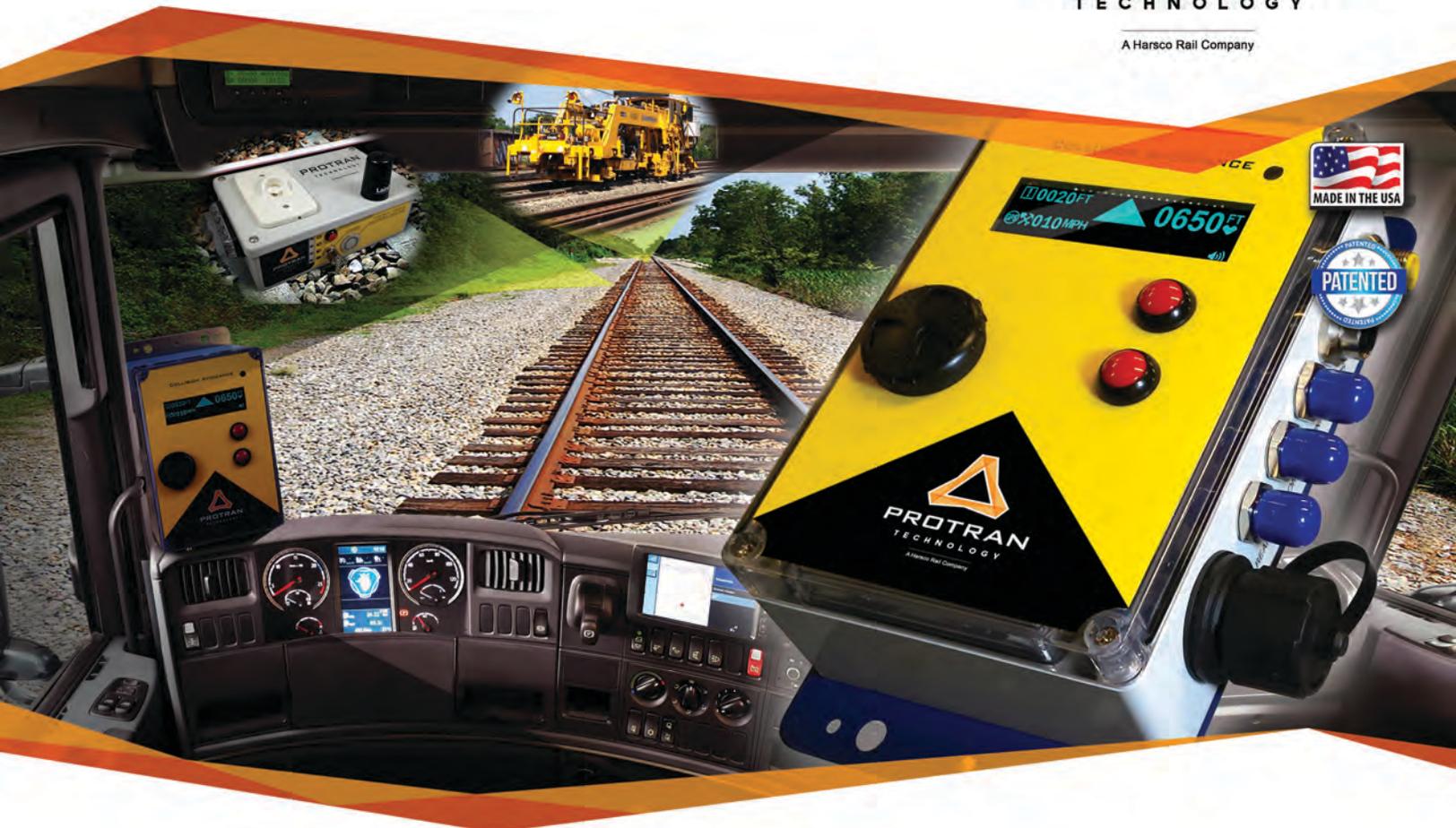
COLLISION AVOIDANCE SYSTEM

Vehicle to vehicle and vehicle to worker advance warning



PROTRAN
TECHNOLOGY

A Harsco Rail Company



DESCRIPTION

The Protran Collision Avoidance System (CAS) is a vehicle mounted unit equipped with a high resolution OLED daylight display that emits a visual and audible alarm when approaching other vehicles, workers, and work site limits. By keeping the operator's attention, the system prevents costly accidents and injuries.

The system has two automatic modes, "travel and "work zone" mode. It performs precise ranging for distances up to and over 2500 feet in the harshest conditions, including tunnels and curves.



Vehicle to vehicle display



Work mode display



Worker ahead display

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SPECIFICATIONS

Collision Avoidance (CAS)	
Input voltage	9-36 VDC
Tx / Rx range HI-RES	2500 ft (Longer distances available upon request)
Sound output	75-95 dB @ 3 ft adjustable
Fuse protected	Yes
Enclosure	Polycarbonate / IP67, NEMA 4, 4x
Operating temperature	-40°C to +85°C
Dimensions / weight	5¼" x 7" x 3" (13½ x 18 x 9½ cm) / 5 lbs (2¼ kg)

Work Site Limit	
Charging voltage	14.8VDC
Operation frequency	Up to 1200 ft + line of sight
Sound output	2.4 Ghz
Enclosure	104 dB
Range	Polycarbonate / fiberglass - IP67
Operating temperature	-40°C to +85°C
Dimensions / weight	10" x 7" x 6" (25 x 20 x 15 cm) / 5 lbs (2¼ kg)

Personal Alert Device (PAD) & Headset	
Keypad	Sealed membrane (Anti-dust / moisture failure)
Enclosure	ABS plastic (with IP66 option)
Power requirements	Rechargeable
Dimensions / weight	3¼" x 3¾" x 1¾" (8 x 9½ x 4½ cm) / ½ lb (230 g)

5-Port PAD / Flagger Charge Station	
Charges	PAD and Flagger devices
Dimensions / weight	22" x 3" x 1½" (56 x 7½ x 4 cm) / 4½ lb (2 kg)



PT-0203



PT-0903



PT-0704 PT-0700EP



PT-0801

BENEFITS

- High Resolution up to 2500 feet
- Data logging
- Collision avoidance between vehicles
- Collision avoidance between vehicles and workers
- Collision avoidance between vehicles and work site limits
- User friendly
- Simple installation

APPLICATIONS

- Vehicle to vehicle collision avoidance
- Vehicle / vehicle to track worker advance warning

APPROVALS

- United States (FCC): OUR-XBEE*
- Canada (IC): 4314A-XBEE*
- Europe RoHS / WEEE (upon request)*

*Specific to radio only

The Protran Technology, Harsco Rail equipment pictured in this brochure is intended to illustrate the general appearance and features of this product. It is equipped as specified by a particular customer and may or may not show items that are optional or recommended by Protran Technology, Harsco Rail. Specifications, illustrations, and descriptive materials herein were accurate as known at the time this publication was approved for printing. Protran Technology, Harsco Rail reserves the right to discontinue models or options at any time or change specifications and materials, equipment and design without notice and without incurring obligation. Protran Technology, Harsco Rail, is not responsible for operators, workers, and/or pedestrians that ignore or disregard the secondary warning, audible and visual alerts from the system. Contact Protran Technology for warranty information. For operation, refer to the Protran Technology operation manual.

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