HINDSIGHT 20/20 Model: HS-400N

Total Product Orientation

Physical Product

Purpose

Promote collision avoidance by delivering benefits to help improve driver awareness

- Alert the driver (enabling driver to react and bring the vehicle to a stop)
- Quantify distance of the vehicle to the obstacle

Description

Ultrasonic rear-obstacle detection & proximity system; overview of components:

- Ultrasonic transceiver detectors mounted on exterior rear of vehicle
- Heavy-duty steel & rubber mounting brackets mounted on exterior rear of vehicle
- Shielded coaxial cabling mounted on exterior and under-carriage of vehicle
- Epoxy-potted control box mounted on exterior and under-carriage of vehicle
- 7-Way Plug w/ Heavy-Duty Wire Coil mounted on exterior of power vehicle
- 7-Way Receptacle mounted on exterior of trailer
- Display box mounted as an in cab control, readily accessible by driver

How HS20/20 Works

Upon powering the vehicle's reverse-light electrical circuit

- 1. Error check is performed a single beep indicates system is functioning properly
- 2. Transducers emit ultrasonic sound waves at 40kHz
- 3. Transducers continuously detects for ultrasonic sound waves reflections
- 4. Every 100 milliseconds, the control box processes data gathered by transducers to determine if the reflected sound waves indicate a presence of obstacles within the field of detection, measuring the distance of the obstacle from the detector to +/- 1"
- 5. When the control box determines an obstacle is within the field of detection, it sends information to the driver via the in-cab display box.
 - o In-cab display box communicates alert and quantification information to the driver with audio (three tones) and visual LED lights with graduation marks

Brand Name

Hindsight 20/20:

- Is recognized by members of NHTSA in SAE study as #1 in Detection of Pedestrians
- Is the brand of choice for many of the largest and most prestigious fleets in the United States
- Continues to sell strong, since 1993
- Is designed and built tough for HEAVY-DUTY private commercial, utility, transit, and other harsh & demanding fleet applications
- Is the market's PROFESSIONAL VALUE rear-obstacle detection and proximity solution

Company's Image

Sonar Safety Systems, Inc.:

- Is registered as a California Corporation and is based out of Santa Fe Springs since 1993
- Wholly-owned subsidiary of TANHAY, a \$200M multinational headquartered in Seoul, Korea
- One of eight subsidiaries; focused on Transportation Safety, one of TANHAY's six business areas
- Stands behind its product offerings, practicing a Customer-for-Life philosophy



Pre & Post Sales Service

Sonar Safety Systems, Inc.:

- Maintains a diversified staff of seasoned professional Sales & Service and credentialed Engineers to ensure SSSI's client's enjoy both pre and post sales experiences of the highest quality
- Offers a Hindsight 20/20 Partnership program to clients purchasing as little as 100 units per year

Warranty

Sonar Safety Systems, Inc.:

- Offers a one (1) year warranty on all parts
- Offers extended warranty programs to Hindsight 20/20 Partner Clients

Instructions for Use

Hindsight 20/20:

- Includes a printed Installation and Use Guide with every system sold
- Offers a customizable In-Cab Driver Information Card to all Hindsight 20/20 Partnership program clients at no additional charge

Accessories

Sonar Safety Systems, Inc.:

- Maintains a well-stocked warehouse of replacement parts and equipment
- Offers special product demonstration kits to distribution channel partners
- Is open-minded to consider product modification and/or development projects catering to the unique application needs of our fleet clients

Package

Hindsight 20/20:

• Is shipped standard in an attractive four-color box facilitating a professional showroom display

