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