Zebra Tread Intel

Automate tire inspections with the snap-on, next generation tread depth reader

Whether you are a tire service center, a tire manufacturer or fleet operator of consumer and commercial vehicles, capturing accurate tread depth is crucial to ensuring tire and driver safety. But manually recording tread depth data is time-consuming and prone to error. Introducing Zebra Tread Intel, a snap-on accessory for Zebra's TC78 and TC58e rugged mobile computers that automatically captures tread depth with a simple swipe across the tire. A highly accurate dual laser image sensor measures tread depth within 1/32 of an inch (0.79mm), enabling assessment of wear and tear in under five seconds per tire. And it works, even on dirty or wet tires.

Now, tire service centers and fleet operators can quickly and easily identify when vehicle tires need to be replaced — and a quick scan can automatically identify whether new tires are defective or have been recalled, before they are installed. And tire manufacturers can easily perform quality checks and verify tread depth on defective tires returned for insurance claims.

With Zebra Tread Intel, the integrated scanner and camera in Zebra's TC78 and TC58e mobile computers, plus Zebra's optional Optical Character Recognition (OCR) software, you get a complete solution that can automate entire workflows. Now workers can just press a button to capture the Tire Identification Number (TIN), Vehicle Identification Number (VIN) , license plates and customer identification cards, broadening the scope and utility of these solutions.

Benefits

Automatically collect highly accurate tread depth information

Ensure tires are safe for use by eliminating errors in tread depth data collection that could lead to accidents caused by worn-out tires

Improve productivity — empower your workforce to complete more tire inspections in less time

Assist more customers, reduce wait times and provide a more positive customer experience

Minimize tire replacement costs and fuel consumption

Automate the capture of accurate tire tread depth with Zebra Tread Intel, the next generation snap-on tread depth reader accessory for Zebra mobile computers. To learn more, please visit www.zebra.com/zebra-tread-intel

Zebra Tread Intel Product Highlights

Measure tread depth in less than 5 seconds per tire
Simply swipe each tire to check tread depth; save time, reduce labor costs and provide a more positive customer experience

Improve accuracy
The dual laser image sensor and Zebra's advanced proprietary algorithms measure tire tread depth within 1/32 of an inch (0.79mm); eliminate errors associated with manual recordkeeping

Real-time connectivity
TC78/TC58e's cellular and Wi-Fi connectivity can seamlessly transfer tire data into your management system for real-time analysis

Works indoors, outside and on tires in practically any condition
Designed to work on dry, wet or even dirty tires; works indoors and outside; durable — drop tested, tumble tested and sealed

Lightweight and ergonomic
Superior industrial design doesn't impact host device balance or ability to grip the host device with any size hand, ensuring full-shift comfort

Easy to use
Zebra Tread Intel snaps on in seconds; since Zebra Tread Intel is powered by the mobile computer, there's no need to manage a separate battery

Expandable to streamline complete workflows — including vehicle inspections
With Zebra's OCR software (optional), you can use the Zebra mobile computer to automatically capture more information, including the Tire Identification Number (TIN), Vehicle Identification Number (VIN), license plate and driver's license information

All the app support you need
Develop your own applications with our Software Development Kit (SDK) or use pre-built partner applications for fleet maintenance, auto dealerships and more

LASER RADIATION
AVOID DIRECT
EYE EXPOSURE
CLASS 3R
LASER PRODUCT

Where can you use Zebra Tread Intel?

Specifications

Physical characteristics
- Dimensions:
  TC58e Zebra Tread Intel:
  6.83 in H x 3.41 in W x 1.30 in D
  173.4mm H x 86.7mm W x 32.9mm D

  TC78 Zebra Tread Intel:
  6.94 in H x 3.48 in W x 1.35 in D
  176.2mm H x 88.3mm W x 34.3 mm D
- Weight:
  TC58e Zebra Tread Intel:
  3.52 oz (99.9g)

  TC78 Zebra Tread Intel: 99.8g
  3.52 oz (99.8g)
- Interface: 8 Pin Back I/O
  connection to terminal
- Power: Supplied by terminal back
  I/O connection

Performance characteristics
- Compatibility: TC78, TC58e with boot
- System: Atmel® | SMART SAM E70
  Flash micro-controller 2MB Flash /
  384 KB SRAM / 8MB SDRAM
- Data capture: Dual laser image sensor
  for tire tread depth reading

User environment
- Drop specification:
  4 ft (1.2m) to concrete across
  operating temperature
- Tumble specification:
  1200 1.6 ft (0.5m) tumbles
- Operating temperature:
  +14F to +122F (-10C to +50C)
- Sealing: IP65 with terminal

Recommended Services
- Zebra OneCare Essential

Warranty
Subject to terms of Zebra's hardware
warranty statement, Zebra Tread
Intel is warranted against defects
in workmanship and materials for a
period of 1 (one) year from the date
of shipment. For the complete Zebra
hardware product warranty statement,
please visit: www.zebra.com/warranty

Tire Service Centers

- Streamline and accelerate
  tire inspections
- Take tread depth
  measurements in real time
  — customer no longer needs
  to wait for diagnosis and
  recommendations
- Replace manual tire tread
  depth gauge devices
- Capture TIN, VIN, license
  plate and customer
  identification
- Improve efficiency and
  customer satisfaction

Commercial Fleet Operators

- Streamline and accelerate
  tire inspections
- Proactively manage tire
  conditions to prevent
  accidents and enhance
  overall fleet safety
- Minimize fuel consumption
  by maintaining optimal
  tread depth
- Empower drivers to log tread
  depth measurements

Tire Manufacturers

- Check tire tread when
  defective tires are received
  back at the factory for
  insurance claims
- Incentivize tire distributor
  network to verify tread
  depth onsite

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