MANUFACTURING LLC

Please Read This Manual Carefully Before Using This Product

360SLT2

SMARTLINK™ TPMS TABLET

USER MANUAL

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1. INTRODUCTION

The Doran 360SLT2 is a SMARTLINK™ TPMS Tablet used to communicate with all Doran TPMS products with a RF or LF transmitting capability. These TPMS products cover the Truck and Trailer Fleets, OFF Road Equipment, and Multi-Trailer applications. It can be used to program a transceiver configuration and also access current tire data on the transceiver and individual sensors.

The Doran 360SLT2 uses the Google Android operating system. The 360SLT2 can be connected to a computer via a USB-C connection so that users can download saved data for documentation and analysis.

1.1. PACKING AND ACCESSORIES

The product comes with the following components:

- SMARTLINK™ TPMS Tablet
- USB-C Cable
- Power Adapter
- USB OTG Adapter
- Quick Reference Guide
- Operation Manual (On the tablet as an e-copy or downloaded from Doranmfg.com)

1.2. TABLET COMPONENTS

1.3. INITIAL POWER UP

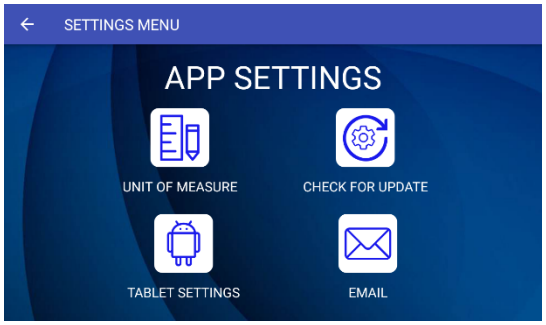
Before powering on the device, make sure it is fully charged. If the battery's charge is less than 50%, the tablet will prevent upgrading the software to the latest version. To charge the device, use the USB adapter and USB-C cable provided.

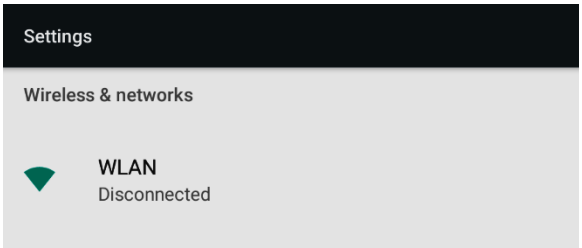
To power on the tablet, press and hold the power button on the top left of the tablet until the display turns on and the blue Doran logo appears.

The tablet will automatically shut off to conserve battery if it is not used for 30 minutes.

1.4. CONNECT THE TABLET TO THE INTERNET

To connect the tablet to the internet, first click App Settings on the home screen. Next, hit Tablet Settings. Click on the WLAN button, browse for the Wi-Fi network, and connect. If the network is password protected, the tablet will prompt for a password entry.

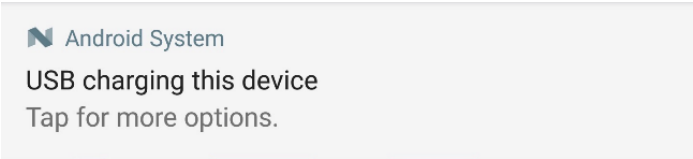




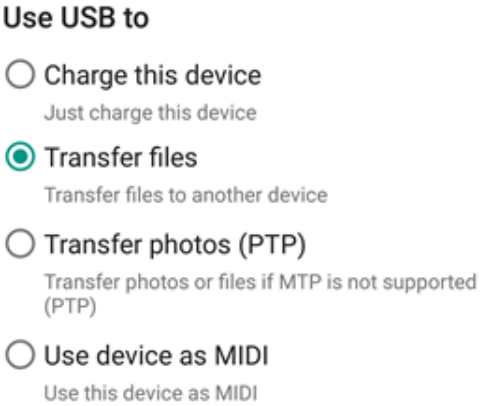
1.5. CONNECT TO A COMPUTER FOR FILE TRANSFER

The device can be connected to a computer with a USB-C cable to transfer stored data. To connect the tablet and computer, insert the USB-C cable into the tablet and the USB end to the computer.

On the tablet, an Android System notification will appear. Swipe down from the top notification bar and select the option below.



Select the Transfer Files radio button. This will allow the computer to access the internal storage of the tablet.



The tablet will now be accessible on the computer it is connected to. The folder named Doran TPMS Data will have all exported data.

2. FUNCTIONS AND APPLICATIONS

2.1. INTRODUCTION

The Doran 360SLT2 SMARTLINK™ TPMS TABLET is an all-in-one tool that can be used with all of the Doran TPMS products. The main menu features the following operations.

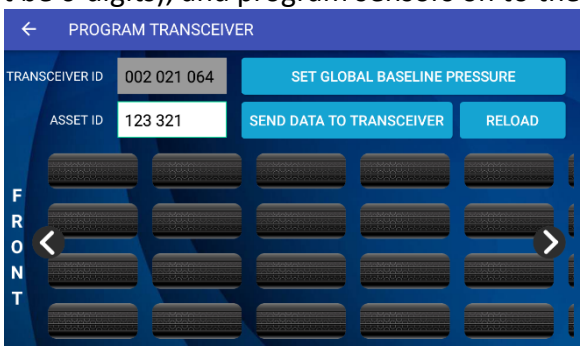
- **PROGRAM TRANSCEIVER**
  - Used to program any TPMS transceivers installed on a vehicle
- **READ TIRE SENSOR**
  - Allows the user to read sensor data from transceivers, LFA TPMS sensors, or record truck tire data with LFA sensors
- **SAVED FILES**
  - Access saved data from recorded tire data
- **APP SETTINGS**
  - Access Android settings, change the unit of measure, checking for software updates, and setting up an email account.
- **ACCESS WEB PORTAL**
  - Access the YardCheck360™ web portal (Only for use with YardCheck360™ products).

3. FUNCTIONS AND APPLICATIONS

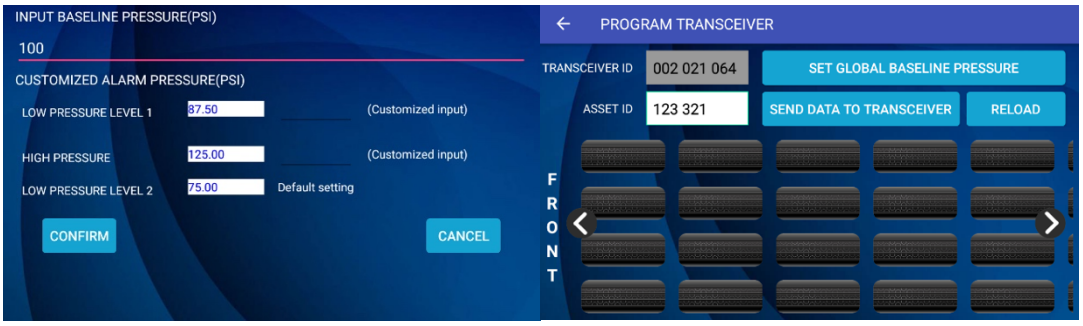
3.1. PROGRAMING A TRANSCEIVER

After clicking the Program Transceiver icon on the home screen, the tablet will search for and list any active transceivers within range. (In order to have reliable communication, the tablet should be less than 35ft (10m) away from the transceivers)

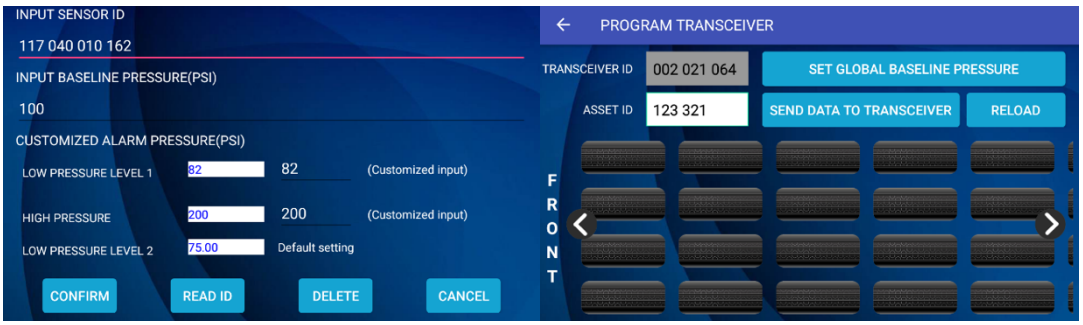
The appropriate transceiver is selected and a tire layout screen is displayed. (For 7-axle transceivers, use arrow to scroll right for more wheel positions) On this screen, the user can set a global baseline pressure to all programmed tire positions, input/change the asset ID (Asset ID must be 6-digits), and program sensors on to the transceiver.



The default baseline pressure is set to 100 PSI. The alarm level defaults are 87.5 PSI for low pressure level 1, 75 PSI for low pressure level 2, and 125 PSI for the high pressure alert. To set the global baseline pressure, the button is pressed and the newly desired values are entered. Confirm the pressure levels by pressing the Confirm button and then the Send Data to Transceiver button is pressed to transfer the new settings and save the global baseline pressure to the transceiver.



To program a tire sensor, the desired position is pressed. The sensor ID is typed in at the top of the screen (Sensor ID can also be input through “READ ID” to these LFA sensors). If the baseline pressure or alert levels need to be customized, it can be done on this screen as well. After confirming the ID and alarm levels are correct, the data can be sent to the transceiver and saved by pressing the “SEND DATA TO TRANSCEIVER” button.



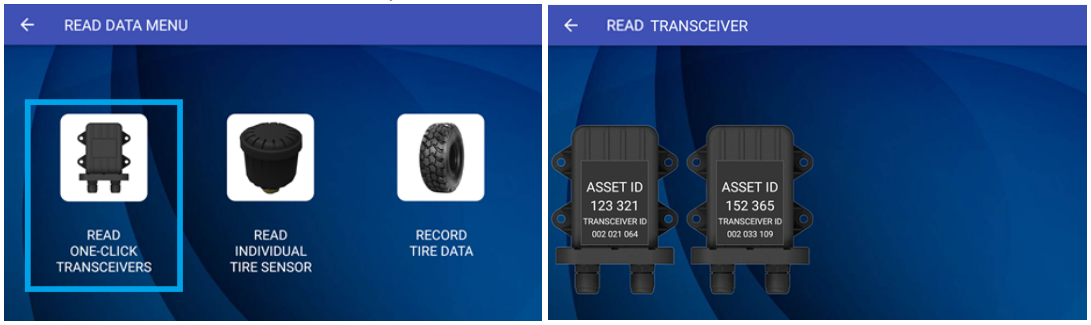
A programmed sensor can be deleted by tapping on the programmed tire and then tapping the “DELETE” button. The “SEND DATA TO TRANSCEIVER” button has to be pressed to apply the change. Pressing the “RELOAD” button will take the tablet back to the transceiver selection screen if programming another transceiver is required.

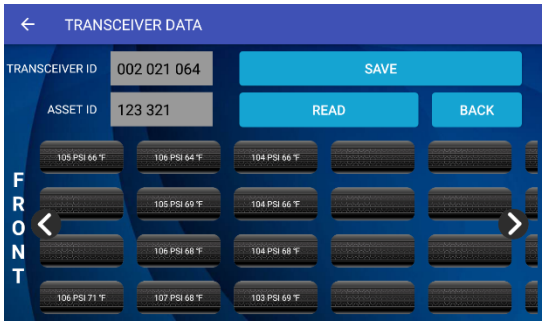
3.2. READ TIRE SENSOR DATA

After clicking the Read Tire Sensor Data on the home screen, the user is presented with three different options.

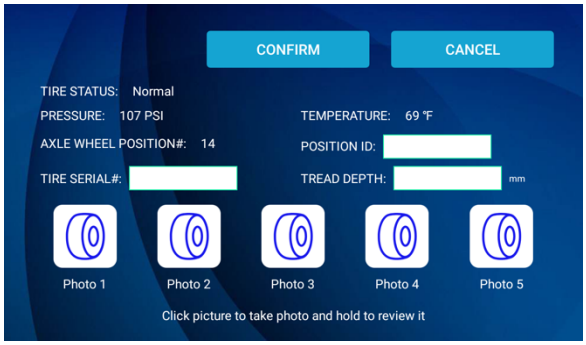
3.2.1. READ ONE-CLICK TRANSCEIVERS

Clicking on the Read One-Click Transceivers button will bring up a list transceivers. Once a transceiver is selected, the tire data will be loaded.





Clicking on a tire will bring up the tire details. The user can also add information such as a serial number, position ID, tread depth, and photos. After information is added, simply press “CONFIRM” and then the Save button to save the data to the tablet.

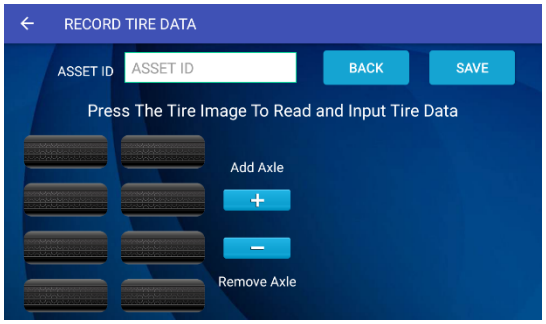


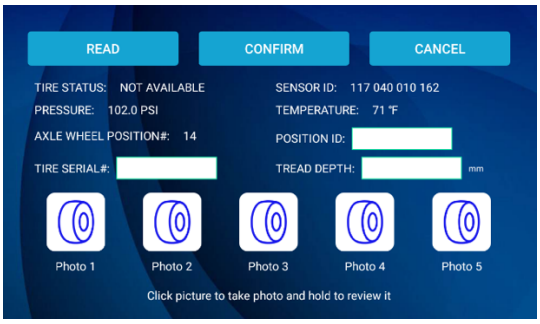
3.2.2. READ INDIVIDUAL TIRE SENSOR

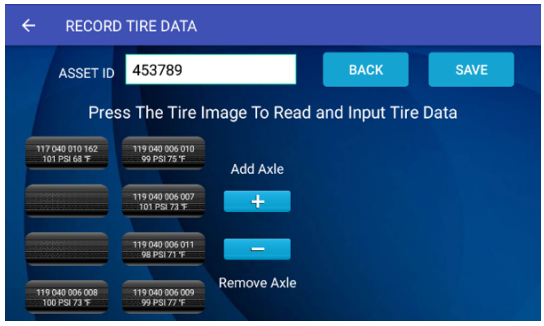
Users can also read individual tire sensors if they have a LFA mark on them. This is a special type of tire sensor that features low frequency communication to allow the tablet to communicate directly to the sensor. To read a LFA tire sensor, hold the tablet close to the sensor (no more than 6 inches) and press the "READ INDIVIDUAL TIRE SENSOR". When the sensor is read, the ID, pressure, and temperature will be displayed.

3.2.3. RECORD TIRE DATA

In addition to displaying the current pressure and temperature of a sensor, the 360SLT2 can also record tire data. After pressing the Record Tire Data button on the Read Data Menu, two axles are shown. An asset ID (The asset ID can be any numbers/letters) is first assigned and then the vehicle configuration can be modified. Using the + and – buttons, the user can add or subtract axels to match the configuration of the vehicle.



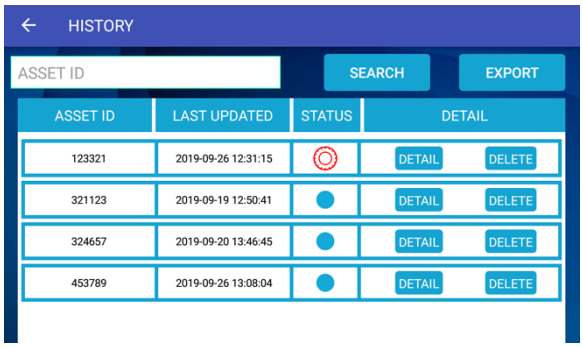




Clicking on a tire will bring up the tire record input screen. If the sensors are marked with LFA, they can be read to fill in the tire pressure and temperature. Additionally, information such as a serial number, position ID, tread depth, and photos can be added. Once all desired data is entered for that tire, the Confirm button is pressed. Once all tires are recorded, the Save button is pressed and the data will be saved to the tablet. This data can be exported or reviewed in the Saved Files menu which is outlined in the following section.

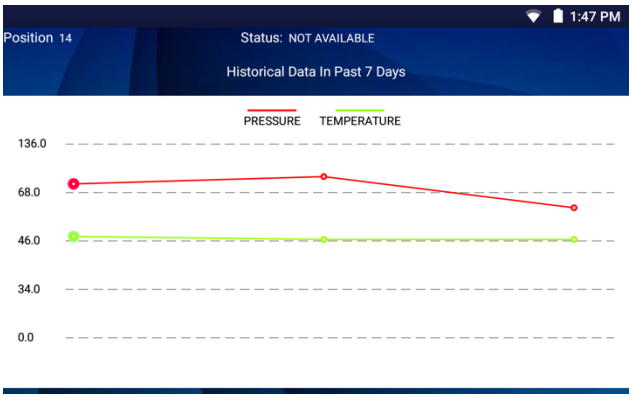
3.3. SAVED FILES

Clicking on the Saved Files button will bring up a list with all of the assets that have been stored on the tablet. A red tire indicates an alarm condition has been recorded. A blue dot indicates that all tires on the asset are at correct pressures and temperatures. Pressing the Export button will save all of the data to a file located in the Doran TPMS Data folder of the tablet.



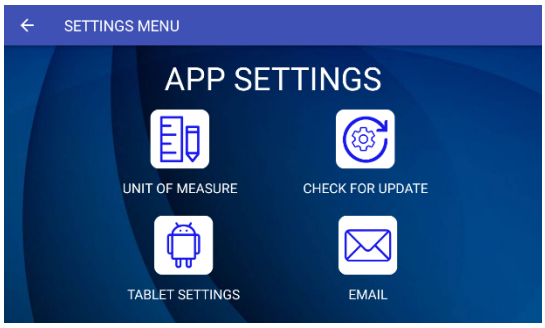
Clicking on the Detail button for any of the assets will bring up a Last Reported Data screen displaying the last reported tire data.

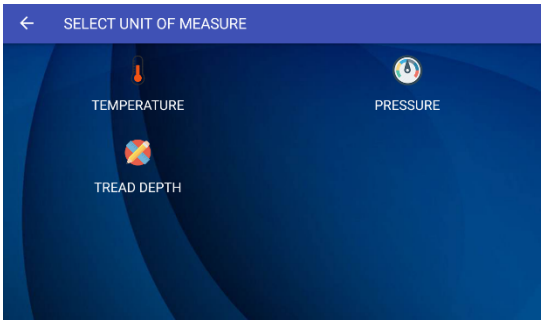
Clicking on an individual tire will bring up a detailed graph of the Historical Data from the last 7 Days for that specific tire.



3.4. APP SETTINGS

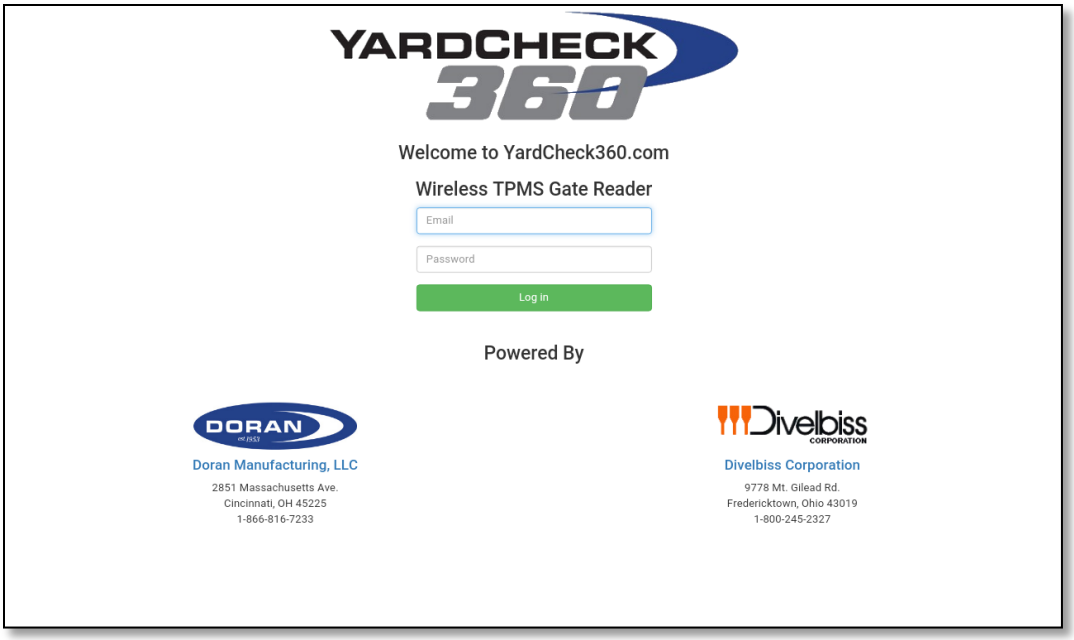
In the App Settings, the user can change the unit of measure for temperature, pressure, and tread depth measurements. The Check for Update button will verify that the tablet is running the most up to date version of software. The Tablet Settings button will navigate to Android settings such as Wi-Fi, Bluetooth, Display, and Notification settings. Lastly, the Email button will guide a user through setting up an email account on the tablet. This can be used to email saved data and photos off the tablet.





3.5. YARDCHECK360 WEB PORTAL

If YardCheck360 hardware is being used, the YardCheck360 web portal can be accessed by the tablet. Please visit http://doranmfg.com/yardcheck-360-wireless-gate-reader-tire-pressure-monitoring-system/ for more details regarding the YardCheck360 product line.


YARDCHECK 360
Welcome to YardCheck360.com
Wireless TPMS Gate Reader
Email
Password
Log in
Powered By
Doran Manufacturing, LLC
2851 Massachusetts Ave.
Cincinnati, OH 45225
1-866-816-7233
Divelbiss Corporation
9778 Mt. Gilead Rd.
Fredericktown, Ohio 43019
1-800-245-2327

4. FAQS AND TIPS

Why can't I read the sensor data successfully?
The communication between the sensor and smart tablet is called low frequency technology. The communication distance is much shorter than RF. Typical read distance is just 6 inches. Make sure the tablet is close enough to read sensor data successfully. Only LFA sensors can be read by the tablet, verify the sensor has the LFA marking on it.

Why doesn't my tablet turn on?
Press and hold the power button for a few seconds until the Doran logo appears on a white screen. If the tablet does not power on, check if the battery needs charged.

Why can't I see the sensor ID in the data read from the transceiver?
The sensor ID is not included in the data transmission from the transceiver to the tablet. The sensor ID is only available if the data is read directly from a LFA sensor.

Why isn't the system date and time correct?
The system date and time will be auto synced when correct time zone is selected and internet connection is set through WIFI. You can also manually set the date and time in Android Tablet settings accessed through the App Setting button on the home screen.

5. SPECIFICATIONS

SLT2 TPMS Tablet Specifications		
Wireless Communication	Wi-Fi (2.4G)	2.4G
	Bluetooth (2.4G)	2.4G
	RF (434.1MHz)	434.1MHz
	LF (125kHz)	125kHz
Tablet Information	OS	Android 7.1.2
	Storage	8GB
	Camera	5.0MP
	Touch panel	Capacitive
	Display	7" IPS
	Screen resolution	1280x800
	Power Adapter	100~240V
	Battery	5000mAh
	Power consumption	<8W
	Working Temperature	0~55 ℃
	Storage Temperature	-20~60 ℃
	Dimensions	250Lx130Wx23H mm
	Weight	0.56 kg
Connection		USB (Type C)
		USB (OTG)
		Micro SD card

6. CERTIFICATIONS

Federal Communications Commission (FCC) Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generate, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

RF exposure warning

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This product may not be collocated or operated in conjunction with any other antenna or transmitter.

Industry Canada (IC)

CAN ICES-3 (B)/NMB-3(B)

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.
Cetappareilestconforme à la norme RSS d'Industrie Canada. Son fonctionnementestsujet aux deux conditions suivantes:
(1) ledispositif ne doit pas produire de brouillagepréjudiciable, et
(2) cedispositifdoit accepter tout brouillagereçu, y compris un brouillage susceptible de provoquer un fonctionnementindésirable.

RF exposure warning

The exposure standard for wireless transmitter employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the IC is 1.6W/kg.
The highest SAR value for the EUT as reported to the IC when on the body, as described in this user guide, is 0,17W/kg.

La norme d'exposition pour l'émetteur sans fil utilise une unité de mesure connue sous le nom de taux d'absorption spécifique, ou SAR. La limite SAR fixée par l'IC est de 1,6 W / kg.
La valeur SAR la plus élevée pour l'EUT signalée à l'IC lorsqu'elle est portée sur le corps, comme décrit dans ce guide de l'utilisateur, est de 0,17W/kg.

CE and RCM
This device passed both CE and RCM test on EMC, RF, Health and LVD.

7. LIMITED WARRANTY

ONE YEAR LIMITED WARRANTY: Subject to the limitations and exclusions set forth in this Limited Warranty, the DORAN 360SLT2is warranted against defects in material or workmanship that result in a product failure under normal use during the one-year period following the date of purchase by the original end-user. This Limited Warranty applies only to claims made by the original end-user and cannot be assigned, transferred or conveyed to any subsequent users. The exclusive remedy for any product determined by DORAN MFG. LLC to be defective within such period shall, at the sole option of DORAN MFG. LLC, be the repair or replacement of such defective product, or the refund of the purchase price therefore. No other remedy shall be available.

EXCLUSIONS FROM COVERAGE: This Limited Warranty does not apply to any claims arising from misuse, abuse, unauthorized repair or alteration, circumstances; or damage or defect attributable to fire or other casualty, including, without limitation, acts of God or exposure to abrasive or corrosive materials or pollutants, or attributable to collision or other accidents which the DORAN 360SLT2 is used.

LIMITATIONS: THIS LIMITED WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER EXPRESSED OR IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ALL OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF DORAN MFG. LLC. THIS WARRANTY SPECIFICALLY EXCLUDES ALL INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES. IN NO EVENT, AND FOR NO CAUSE WHATSOEVER, SHALL DORAN MFG. LLC HAVE ANY LIABILITY TO ANY PARTY IN EXCESS OF THE ORIGINAL PURCHASE PRICE OF THE PRODUCT IN QUESTION.

EXCLUSIVE AGREEMENT: This Limited Warranty is a complete and exclusive statement of the warranties which apply to the DORAN 360SLT. There are no expressed or implied warranties beyond those expressly stated above. No employee, agent, dealer or other Person is authorized to give any warranties on behalf of DORAN MFG. LLC, except as authorized in writing.
STATUTE OF LIMITATIONS. In purchasing the DORAN 360SLT2you agree that any action for breach of contract or warranty must be commenced within one year after the cause of action has accrued.

PROCEDURE: Products determined to be defective within the terms of this Limited Warranty should be returned to Doran Mfg. LLC, transportation prepaid. Call DORAN MFG. LLC for return authorization. No unauthorized returns shall be accepted. Sender is responsible for all costs incurred in the removal or reinstallation and shipping of the returned product. A copy of the sales slip from the point of purchase must accompany the returned product.

APPLICABLE LAW: The internal laws of the State of Ohio, U.S.A. shall govern this Limited Warranty, and the exclusive venue for any dispute in connection with the purchase or use of the product shall be the state and federal courts of general jurisdiction located in Hamilton County, Ohio U.S.A.

SPECIAL NOTICE TO CONSUMERS: If you have purchased this product for person, family or household use:

(1) Some states do not permit disclaimers or term limitations of implied warranties so that the disclaimers and limitations in this Limited Warranty may not apply to you;
(2) Some states do not permit the exclusion or l imitation of incidental or consequential damages so that the exclusions and limitations in this Limited Warranty may not apply to you; and
(3) This Limited Warranty gives you specific legal rights and you may have other rights that vary from state to state.

Doran keeps rights to update this manual without notifications. Please always go to Doran website (www.doranmfg.com) to check for the latest version or contact your sales agent for instruction.

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