



VERSION 0.4

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PRG SmartXcan

USER MANUAL - PRELIMINARY

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PRG SmartXcan User Manual

Version as of: 27 July 2020

PRG part number: AAE-8311

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FOREWORD

Compliance Notice

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.

Conforms to:

UL STD 1573

PENDING CERTIFICATION to:

CAN/CSA STD E598-1



CAN/CSA STD E598-2-17



Important Safety Instructions

- + Read these instructions.
- + Keep these instructions.
- + Heed all warnings.
- + Follow all instructions.
- + Not to be used in any other way not specified by the manufacturer.
- + Do not use this apparatus near water.
- + Use caution when cleaning.
- + Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- + Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- + Unplug this apparatus during lightning storms or when unused for long periods of time.
- + Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, input ports are damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- + In Europe: The building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.
- + In Finland: Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan.
- + In Norway: Apparatet må tilkoples jordet stikkontakt.
- + In Sweden: Apparatens skall anslutas till jordat uttag.
- + No naked flame sources should be placed on the apparatus.
- + Apparatus not for use in tropical climates.
- + The apparatus shall not be exposed to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

Safety symbols used throughout this manual are as follows:

	CAUTION advising of potential damage to product.
	WARNING advising of potential injury or death to persons.



WARNING! To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.



WARNING! Power supply plug and/or power switch/circuit breaker shall remain readily operable.



WARNING! This CLASS I apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.



WARNING! Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



WARNING! For personal safety, this equipment must be properly grounded when connected to an AC power source.

Do not, under any circumstances, cut or remove the ground prong from the power cord.

The power cord of this equipment shall be minimum 18AWG with a grounding plug which mates with a grounded outlet to minimize the possibility of electric shock hazard from this equipment.

The plug that mates to the outlet shall be compatible with the country standards the product shall be used in. The connector mating to the device's C14 inlet will be an IEC 60320 C13 connector.

Ensure the outlet that the device will be connected to is properly grounded. NEVER use a ground lift or any other device which would not connect the device to a ground.

Never unplug the equipment by pulling on the power cord. Always grip the plug firmly and pull it straight out from the outlet. Do not use a cord that shows cracks or damage along its length or at either end.



Replacement cords may be ordered from PRG.

Consignes de Sécurité Importantes

- + Lisez ces instructions.
- + Conservez ces instructions.
- + Respectez tous les avertissements.
- + Suivez toutes les instructions.
- + Ne pas utiliser cet appareil près de l'eau.
- + Nettoyer avec un chiffon sec.
- + Ne pas installer près de sources de chaleur telles que des radiateurs, registres de chaleur, poêles ou autres appareils (incluant les amplificateurs) qui produisent de la chaleur.
- + Protégez le cordon d'alimentation ne soit piétiné ou pincé, particulièrement au niveau des fiches, des prises de courant, et le point où ils sortent de l'appareil.
- + Débranchez cet appareil pendant les orages ou lorsqu'il est inutilisé pendant de longues périodes de temps.
- + Confiez toute réparation à un personnel qualifié. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque façon que ce cordon d'alimentation ou la fiche est endommagé, du liquide a été renversé ou des objets sont tombés dans l'appareil, l'appareil a été exposé à la pluie ou à l'humidité, ne fonctionne pas normalement, ou est tombé.

- + L'installation du bâtiment doit être considéré comme fournissant une protection conformément à la cote de la prise de courant murale.
- + Aucune source de flamme nue devraient être placés sur l'appareil.
- + Appareil pour une utilisation dans les climats tropicaux.
- + L'appareil ne doit pas être exposé à des éclaboussures. Les objets remplis de liquides, comme des vases, doivent être placés sur l'appareil.

Symboles de sécurité utilisés dans ce manuel sont les suivantes:

	MISE EN GARDE conseillant des dommages potentiels au produit.
	ATTENTION conseillant de préjudice potentiel ou la mort de personnes.



ATTENTION! Pour réduire le risque d'incendie ou un choc électrique, ne pas exposer cet appareil à la pluie ou à l'humidité.



ATTENTION! Prise d'alimentation et / ou l'interrupteur d'alimentation / disjoncteur doit rester facilement accessible.



ATTENTION! Ce appareils de CLASSE I doit être raccordé à une prise secteur dotée d'une connexion à la terre.



ATTENTION! Si la fiche d'alimentation ou un coupleur d'appareil est utilisé comme dispositif de déconnexion, le dispositif de déconnexion doit rester facilement accessible.



ATTENTION! Pour votre sécurité, cet appareil doit être correctement mis à la terre.

Ne coupez ni n'enlevez en aucun cas la broche de mise à la terre du cordon d'alimentation. Le cordon d'alimentation de cet équipement doit être muni d'une fiche de mise à la terre qui s'accouple avec une prise mise à la terre pour minimiser le risque de choc électrique de cet équipement.

La fiche qui s'adapte à la prise doit être compatible avec les normes nationales dans lesquelles le produit doit être utilisé. Le connecteur correspondant à l'entrée C14 de l'appareil sera un connecteur IEC 60320 C13.

Assurez-vous que la prise à laquelle l'appareil sera connecté est correctement mise à la terre. **NE JAMAIS** utiliser d'élévateur au sol ou tout autre appareil qui ne relierait pas l'appareil à la terre.

Ne débranchez jamais l'équipement en tirant sur le cordon d'alimentation. Saisissez toujours fermement la fiche et retirez-la directement de la prise. N'utilisez pas de cordon présentant des fissures ou des dommages sur toute sa longueur ou à l'une ou l'autre extrémité. Des cordons de rechange peuvent être commandés auprès de PRG.



Important Medical Disclosure

This manual is not intended to define any policy or procedures.

The SmartXcan is not a medical thermometer. It shall not be utilized as a substitute for an examination by a medical professional. A medical examination is always necessary to determine a subject's exact temperature.

The PRG SmartXcan is NOT a product intended for use in the diagnosis of disease or other conditions or in the cure, mitigation, treatment, or prevention of disease; the device is not covered under section 201(h) of the FD&C Act (21 U.S.C. 321(h)).

The measurement should not be solely or primarily relied upon to diagnose or exclude a diagnosis of COVID-19, or any other disease.

- a) Elevated body temperature in the context of use should be confirmed with secondary evaluation methods (e.g., an NCIT or clinical grade contact thermometer)
- b) Public health officials, through their experience with the device in the particular environment of use, should determine the significance of any fever or elevated temperature based on the skin telethermographic temperature measurement;
- c) The technology should be used to measure only one subject's temperature at a time
- d) Visible thermal patterns are only intended for locating the points from which to extract the thermal measurement.

This temperature measuring device meets the (IEC 80601-2-59;2017) standard relating to requirements for safety and essential performance of screening thermographs.

Privacy

The SmartXcan device by default locally stores a logbook of temperature measurements. See **Figure 44** for an example of the data which is stored. The stored data does not associate a temperature reading with a person eliminating an issue of privacy. DSGVO-compliant and GDPR-compliant operation possible. **"Set Temperature Scanning Record Keeping"** on page 33 to configure the SmartXcan's logging features.

Revision History

This manual has been revised as follows:

Version	Release Date	Notes
Draft v3	27 July 2020	New Draft version published for review.
Draft v2	13 July 2020	New Draft version published for review.
Draft	10 July 2020	Draft version published for review.
ALPHA	23 June 2020	Alpha version established.



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Notes



INTRODUCTION

About This Guide

This manual provides necessary information regarding product safety, installation, and operation for the following PRG equipment:

- + PRG SmartXcan

Familiarizing yourself with this information will help you get the most out of your PRG product.

Additional Documentation

- + PRG SmartXcan Quick Start Guide

Customer Service

For technical assistance, contact the PRG International Service Center or contact your nearest PRG office. Contact information for all PRG office locations can be found on our website at: www.prg.com

PRG Dallas (International Service)

3110 Roy Orr Blvd Suite 200

Grand Prairie, TX 75050 USA

Phone: 214.630.1963

Fax: 214.630.5867

Client Support Email: SmartXcanSupport@prg.com

For additional resources and documentation, please visit our website at: www.prg.com

DESCRIPTION

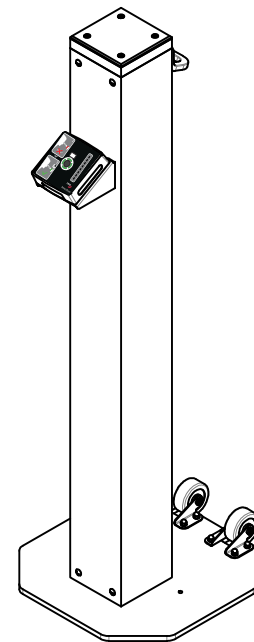
Overview

The PRG SmartXcan is a contact-less thermal scanner to provide precise and rapid temperature scanning.

Thermal scanners can provide an additional layer of protection for customers, employees, students, and audience members. PRG's touch-free thermal scanner can provide nearly instantaneous feedback to an individual as they enter a facility about their potential fever from infection. On-board auditory and visual indicators provide status information to the user as well as nearby security personnel. (Discreet, remote feedback is also available.) Security or administrative personnel can wave positive scans into the facility while negative scans can be redirected for a secondary review. Scanning is private: no user-identifiable information is collected with each scan.

Features

- + Simple, fast temperature scanning
- + Web-enabled monitoring for scanner
- + User configurable temperature thresholds.
- + Integrated indicator lights
 - Green light indicates a scan under the temperature threshold
 - Red light indicates a scan under the temperature threshold
 - Indicator light duration is user configurable
- + Scanning throughput of 700 scans per hour
- + Multiple input power options
 - Removable Battery with a minimum run time of 24 hours and an LED battery level indicator. Charger is included.
 - AC Power input via supplied power cable.
 - Power over Ethernet (802.3af) PoE supply and ethernet cable not included.
- + Rolling base, with a low center of gravity for stability and portability.
- + Integrated handle
- + Keyed battery compartment
- + Optional external controls/feedback devices
- + User configurable software, including
 - Simple configuration via web-browser interface
 - Custom temperature thresholds
 - SNMP support
 - Configurable Email Notifications via SMTP
 - An API that can integrate with existing access-control, facility CCTV, or other building infrastructure
 - Optional Input/Output control signals and alarms based on a variety of triggers This may be used to integrate with security, automation, and access systems. An IO module (not included) is required to send/receive these signals.



Sample Configuration

Standalone

The following illustration shows a typical PRG SmartXcan configuration run in standalone mode.

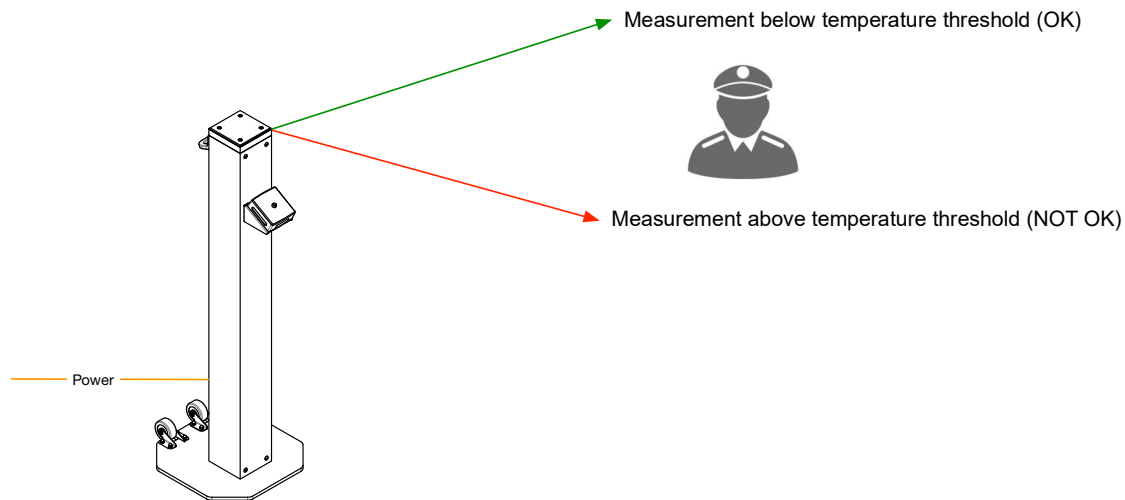


Figure 1: SmartXcan Configuration - Manual Admission Based on Measurement Results

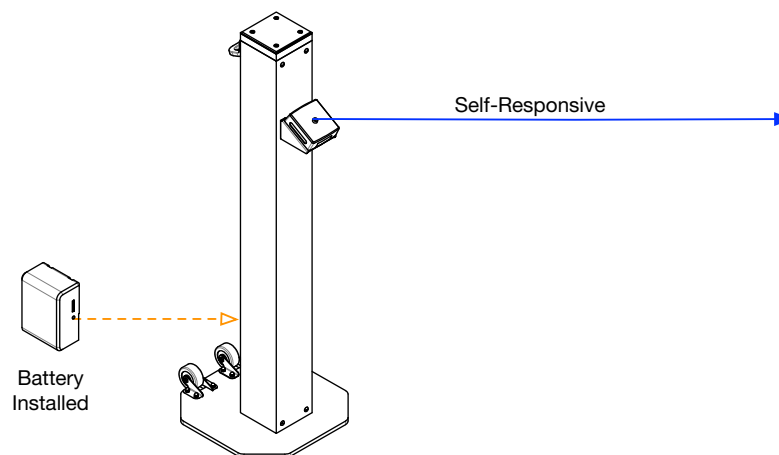


Figure 2: SmartXcan Configuration - Self-Responsive

Note: Many other standalone configurations are possible based on various power sources, policies, etc.

Networked

The following illustration shows a typical PRG SmartXcan configuration when connected to a computer.

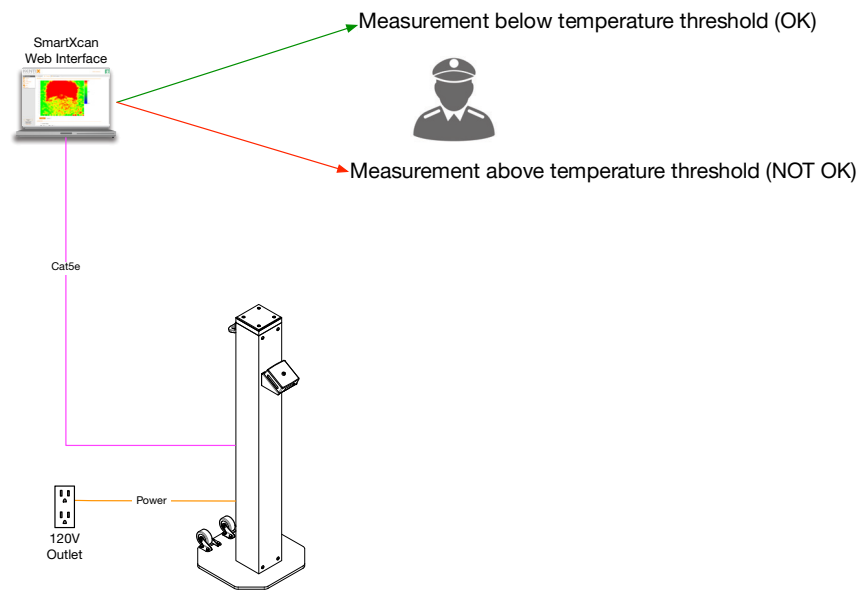


Figure 3: SmartXcan Configuration - Manual Admission w/Network Kiosk

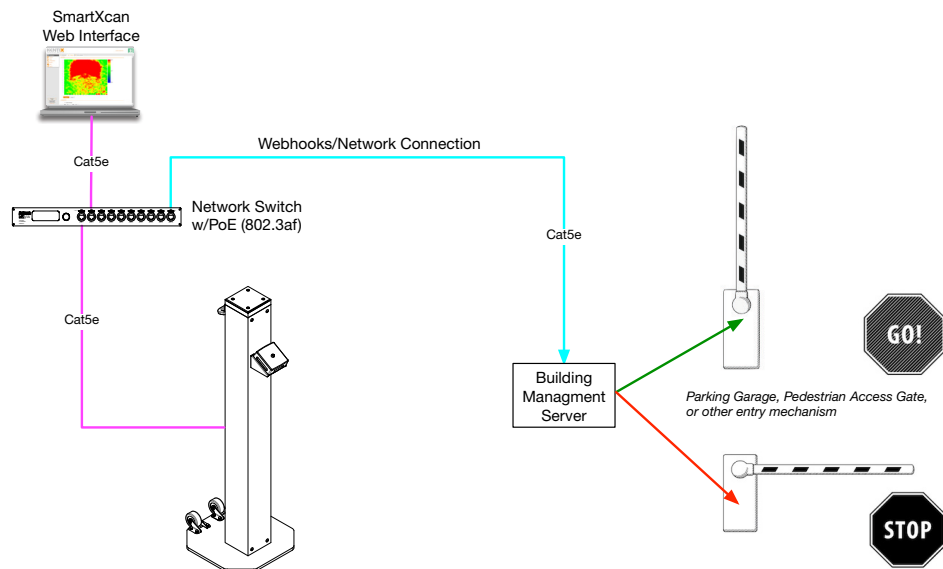
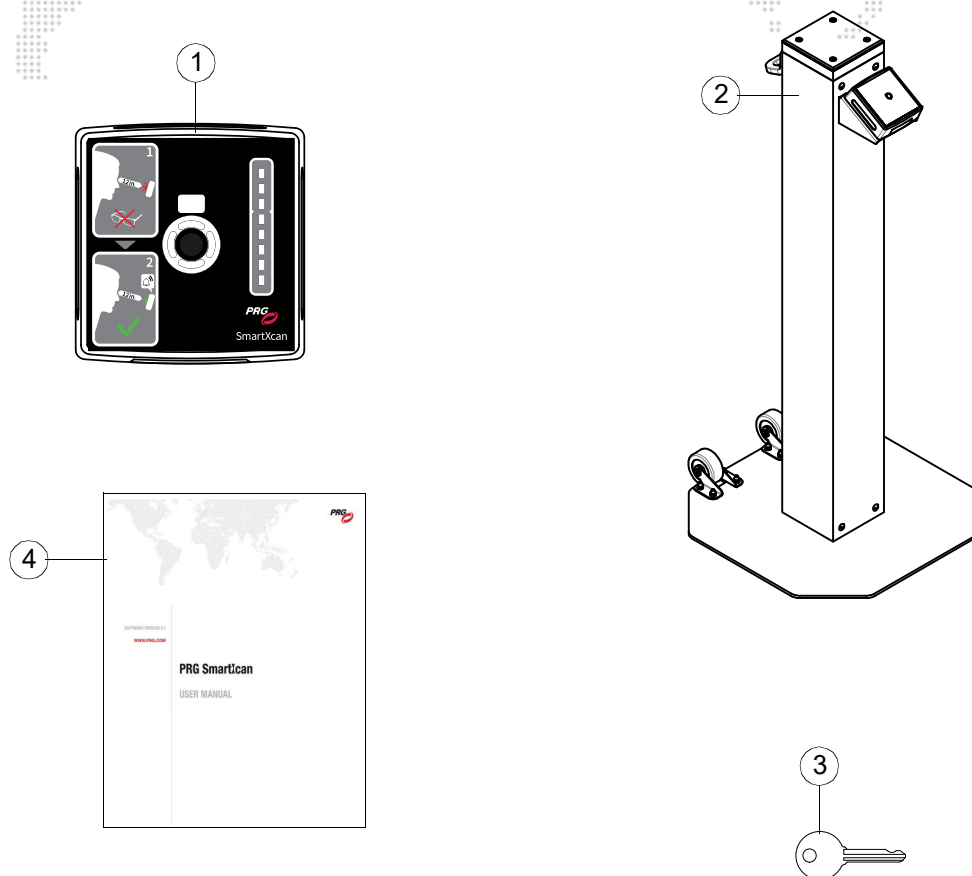


Figure 4: SmartXcan Configuration - Automated Admission w/Network Link & External Controller

SmartXcan Mobile Pedestal



- 1 SmartXcan Measurement Unit
- 2 PRG SmartXcan Mobile Pedestal
- 3 Battery Access Door Key (x2)
- 4 Quick Start Guide

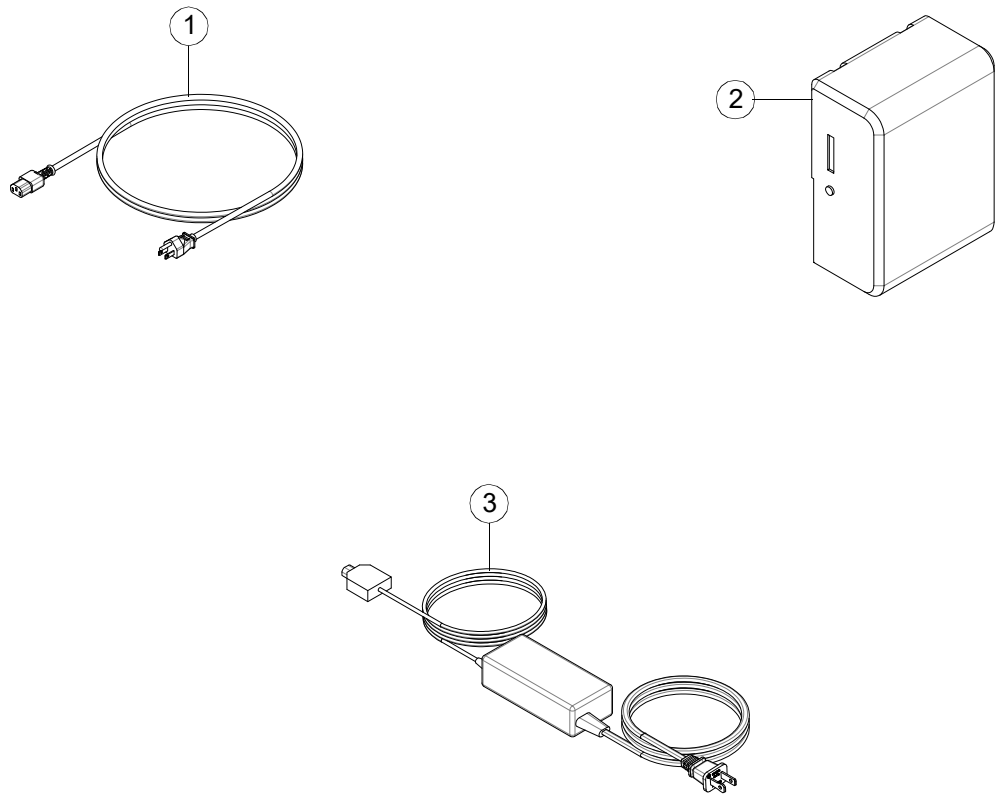
Figure 5: Included Items

Included Items List

No.	Item	PRG Part Number	Ecode
1	SmartXcan Measurement Unit	AAE-8305	
2	PRG SmartXcan Mobile Pedestal w/Rolling Base	AAE-8301	U13H1-
3	Battery Access Door Key (x2)	AAE-8313	U13HW-
4	Quick Start Guide	AAE-8312	

Included Accessories

The following illustration shows included accessories for the PRG SmartXcan:



- 1 Power Cable (IEC C13 to Edison-m)
- 2 Battery 98Wh 14.8V
- 3 Travel Battery Charger

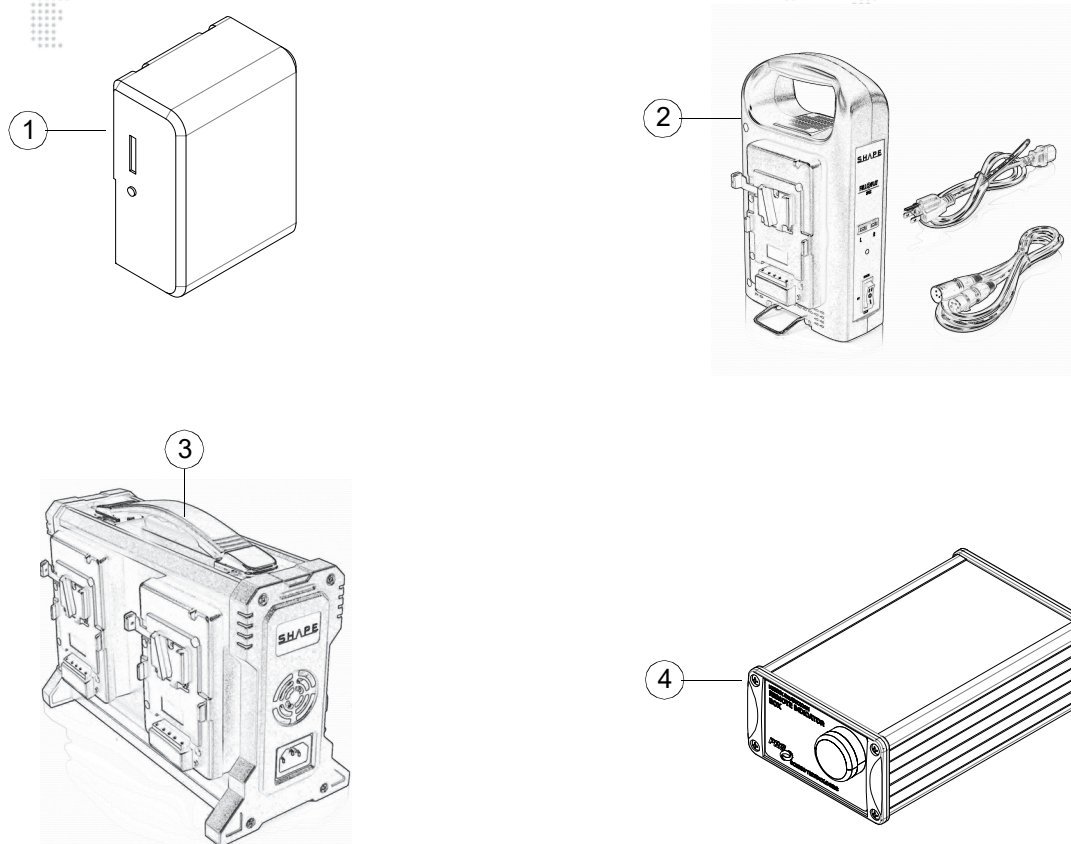
Figure 6: Accessories

Accessories Items List

No.	Item	PRG Part Number	Ecode
1	Power Cable (Edison-m to C13)	AAE-8306	43707-
2	Battery 98Wh 14.8V	AAE-8307	1806Q-
3	Travel Battery Charger	AAE-8308	1806T-

Optional Accessories

The following illustration shows optional accessories for the PRG SmartXcan.



- 1 Battery 270Wh 14.8V
- 2 Battery Charger (Duo)
- 3 Battery Charger (Quad)
- 4 Remote Indicator Light*

Figure 7: Accessories

Accessories Items List

No.	Item	PRG Part Number	Ecode
1	Battery 270Wh 14.8V		
2	DUO Battery Charger		
3	QUAD Battery Charger	AAE-8308	
4	Remote Indicator Light	AAE-8350	U13GF-

Components

External Controls and Connections

The following illustrations show the external controls and connections for the PRG SmartXcan components.

Mobile Pedestal Front

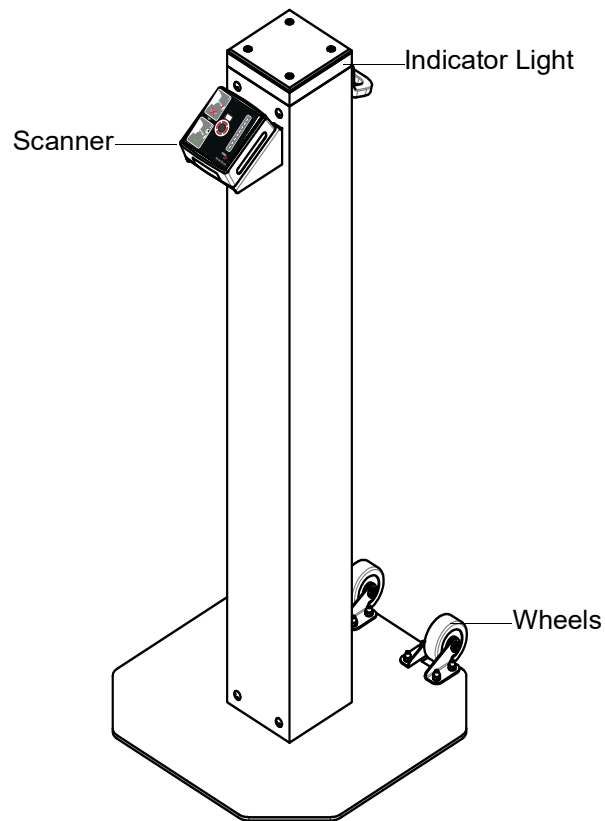


Figure 8: SmartXcan Mobile - Main Components

Indicator Light

User configurable through the SmartXcan web interface. Normally off. A completed temperature scan within the acceptable temperature range will light up GREEN. A completed temperature scan above the acceptable temperature range will light up RED. Acceptable temperature ranges are configured to CDC standards from the factory; the user may customize these temperature ranges from the SmartXcan Web Interface. The duration of the indicator lights can be adjusted as well as one or both lights can be disabled.

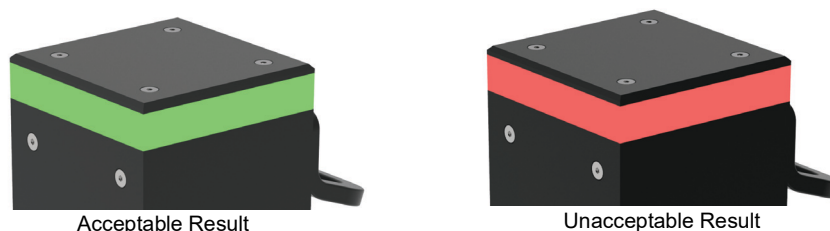


Figure 9: Indicator Light Colors

Scanner

The scanner is highly configurable by the client. The user can specify several options that affect the boot time and accuracy of the scanner. By default, measurements are allowed during the warm-up (boot) period while the scanner acclimates to the environment. Scans during this period may be less accurate, but the scanner will be ready to operate within one (1) minute after power up. Scans prior to the completion of the warm-up period can be disabled on the web interface. The typical warm-up period is between 15-30 minutes, depending on the environmental and storage conditions.

Wheels

Fixed, durable wheels allow for a user to tip the unit back and move to a new location with ease.

Mobile Pedestal Rear

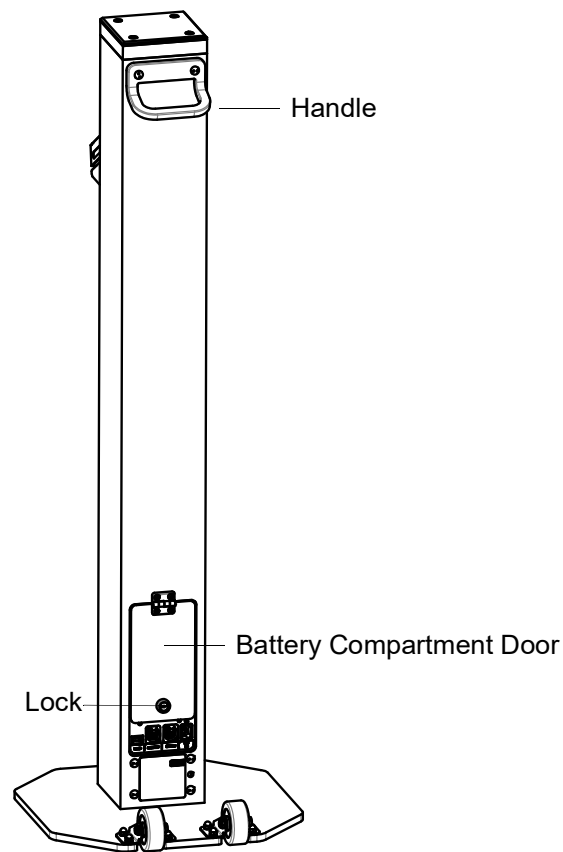


Figure 10: SmartXcan Mobile- Rear Components

Handle

Handle for easy movement of the mobile pedestal.

Battery Compartment Door

Keyed compartment for the optional battery.

Lock

Lock for the battery compartment. Two keys are provided and duplicates can be ordered from PRG.

Rear Detail

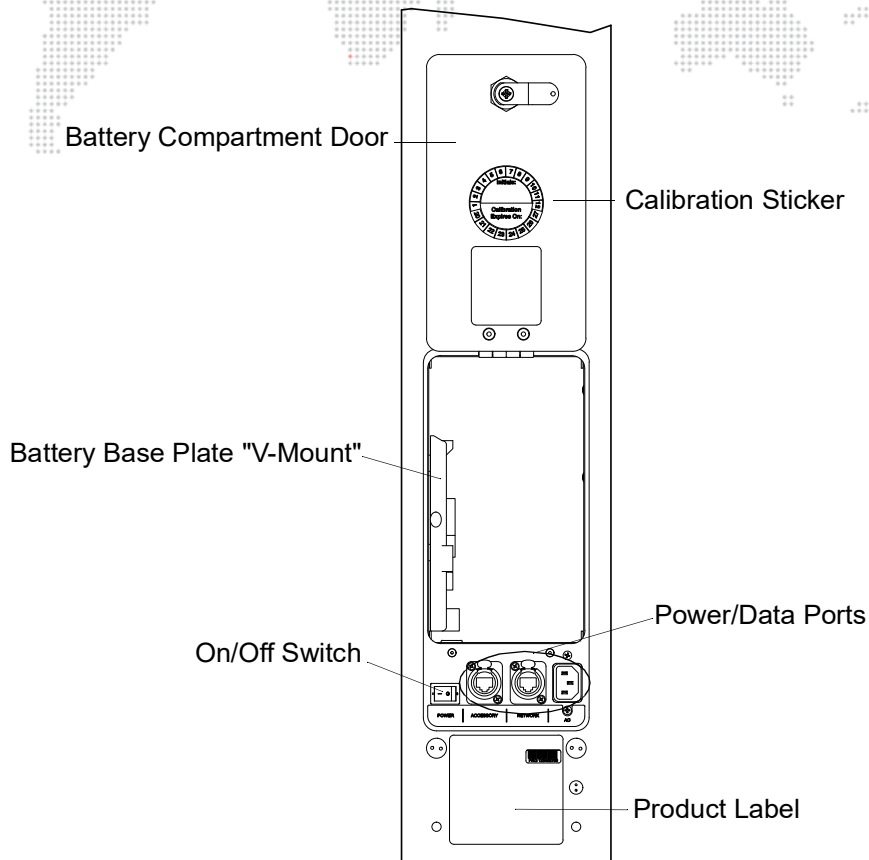


Figure 11: SmartXcan Mobile - Rear Details

Battery Compartment Door

Keyed compartment for the optional battery.

Calibration Sticker

Date of the last annual calibration of the SmartXcan Temperature Reader.

Battery Base Plate

The optional battery would be installed onto the V-Mount type Battery Base Plate.

On/Off Switch

Rocker switch to enable or disable power to the SmartXcan.

Power/Data Ports

IEC C14 and Neutrik etherCON ports for power, data, and accessories. See "Port Detail" on page 21

Product Label

Identifier of the part and manufacturer. The device serial number and critical safety importation can be found here.

Port Detail

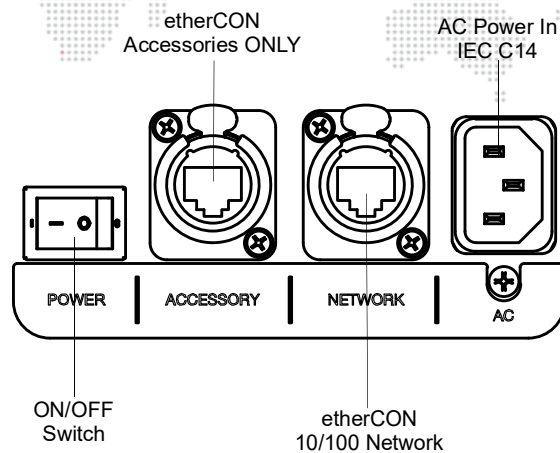


Figure 12: SmartXcan Mobile- Port Details

ON/OFF Switch

Rocker switch to enable or disable power to the SmartXcan.

etherCON - Accessories Only

NON-Network port used for Accessories Only. Should not be connected to computer or network devices. 1.5V runs along pins _ and _.

etherCON - Network

10/100Mb RJ45 etherCON port for network connection and optional PoE.

AC Power In

IEC C14 inlet port. Auto-switching voltage range of 100-240V 50/60Hz.

Battery Compartment Detail

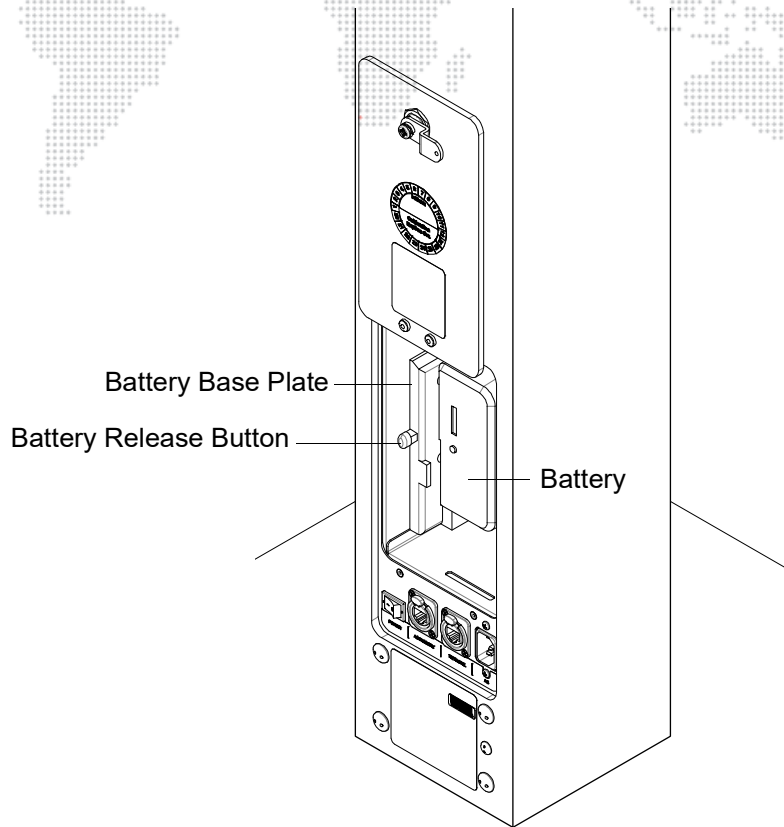


Figure 13: SmartXcan Mobile- Battery Plate Details

Battery Base Plate

Accepts V-Mount batteries that supply a nominal 14.8 VDC power.

Battery Release Button

Push and holding the battery release button allows for the battery to be lifted away from the base plate.

Battery

The provided battery for rental units is the Shape Full Play 14.8V 98Wh Rechargeable Lithium-Ion V-Mount Battery.

Battery Detail

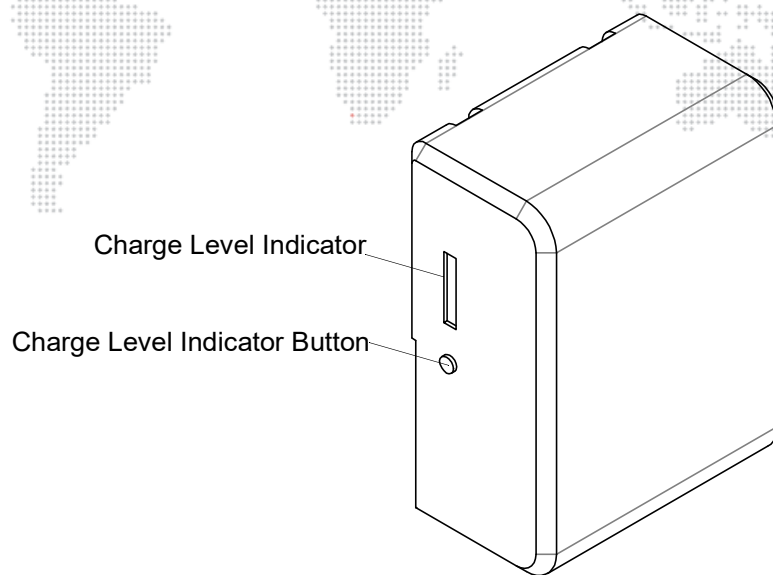


Figure 14: SmartXcan Mobile- Battery Details

Charge Level Indicator

A series of green LEDs that will illuminate to display the current batter capacity.

- + Five LED bars indicate a full charge.
- + One LED bar indicates a low charge.

Charge Level Indicator Button

Used to activate the Charge Level Indicator. The battery power status may be checked while the battery is plugged into the charger or the SmartXcan unit.

Temperature Scanner Unit Detail

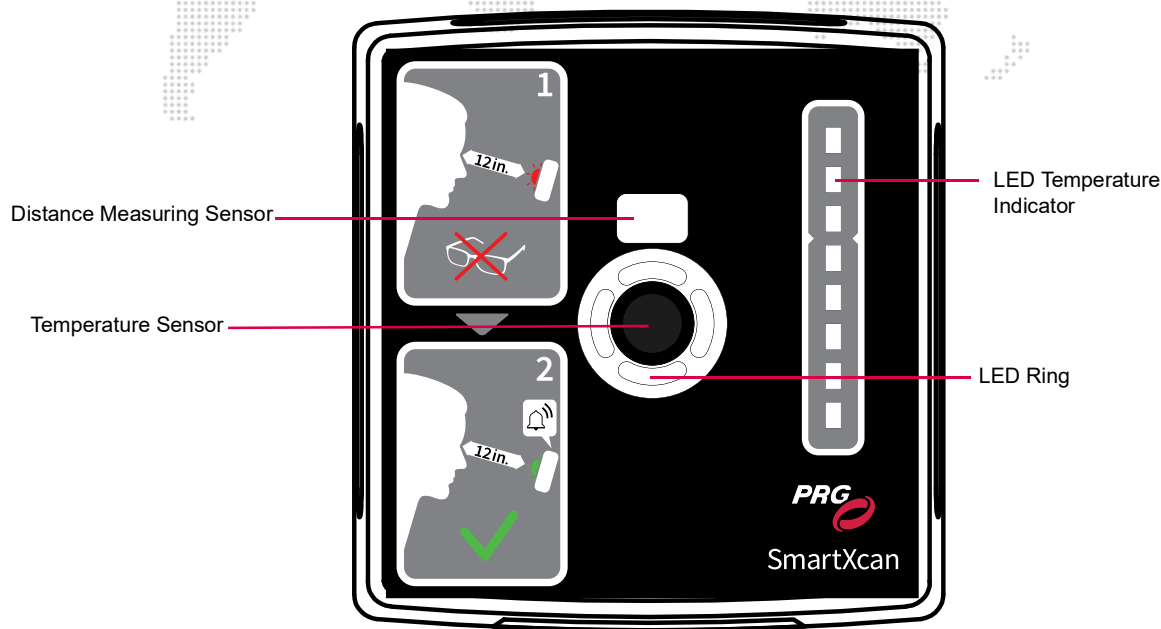


Figure 15: SmartXcan Scanning Unit

LED Temperature Indicator Scale

By default, the acceptable temperature ranges are shown below in Figure 16. The temperature ranges can be changed from the SmartXcan web interface.

Note: The CDC states a fever to be any temperature of 100.4°F or above.

Measurement successful. LED ring green. 5 of 8 LEDs light up. No increased body temperature.	Measurement successful. LED ring red. 6 of 8 LEDs light up. Slightly increased body temperature.	Measurement successful. LED ring red. 7 of 8 LEDs light up. Increased body temperature.	Measurement successful. LED ring green. 8 of 8 LEDs light up. High body temperature.
95.0-100.3°F 35.0-37.9°C	100.4-101.0°F 38.0-38.3°C	101.1-102.7°F 38.4-39.3°C	>102.7°F >39.3°C

Figure 16: LED Temperature Scale Breakdown



Note from Kentix on Measurement Results

As described under Environmental Conditions, an accurate measurement depends essentially on the ambient conditions of the device and the person to be measured. It can also be said that the more temperature-stable the environmental conditions, the better the measurement results.

The system measures the temperature of the skin surface, especially the eye area, as this is where the most stable temperatures prevail. The measured temperature is corrected by a dynamic offset correction to the body core temperature, comparable to standard clinical thermometers for forehead or ear measurement. The offset can be corrected in comparison with a clinical thermometer and can be set in the software interface.

The advantage of the SmartXcan measurement is the high precision due to a wide variety of sensors, i.e. the system ensures that the conditions regarding distance and position of the object to be measured (face) are almost always the same and compensates certain parameters dynamically. The number of warm measurement points is higher for febrile persons, the system evaluates them more strongly in order to better detect an increased temperature. Physical exertion such as sports, climbing stairs or increased outdoor temperature hardly affects the measurement and very rarely leads to an increased temperature measurement.

In general, low skin temperatures or a cooled face are rather problematic for a meaningful measurement. In this case, the persons have to acclimatize in the vicinity of the device for a few minutes before the measurement. Persons with an elevated temperature must be re-measured twice to verify the result. For the exact determination of fever, it is recommended to check with a clinical thermometer.

INSTALLATION

Environmental Conditions

The SmartXcan requires specific environmental conditions for accurate temperature readings.

This is specified in the IEC80601-2-59 standard. While the system has auxiliary systems in place to compensate for environmental conditions, these compensation measures may not be effective beyond the conditions specified below.

- + Use in a space with controlled environmental conditions
- + Ideal 18-24°C / 64 - 75°F
- + Relative non-condensing humidity 10-75%
- + Do not place next to a heat source
- + The thermal image sensor should not be aimed at any other temperature source such as a incandescent light source, radiator, or A/C system
- + Do not point at sun or open sky
- + Install and power on device approximately >15 minutes prior to first measurement. Scanning can be performed within two minutes of power up, but accuracy can be reduced.

Securing Device

The SmartXcan unit must be secured to ensure it will remain upright.

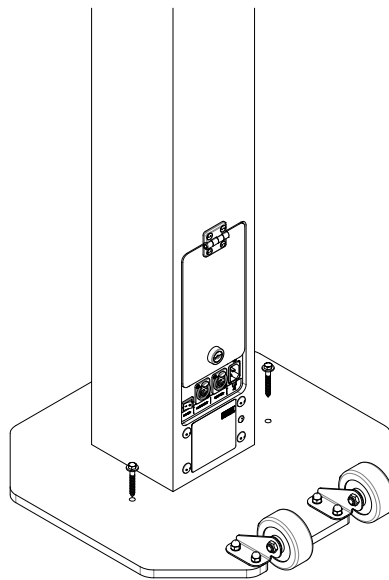


Figure 17: Securing Base with Fasteners

Secure unit with two fasteners (Ø1/4" max). Each shall have a minimum tensile capacity of 200 lbf.

Each fastener shall have sufficient embedment depth to withstand 200 lbf of tension.



Connecting Power

Note: The Unit requires one minute to start up and an estimated acclimation period of 15 minutes. If the unit is moved after the initial acclimation period, the device should be allowed to re-acclimate for at least 15 minutes before additional measurements are performed. The unit can allow scans immediately after the device completes its startup (approx. one minute) but temperature accuracy will be affected. See ["Change Warmup Behavior" on page 37](#) for additional information.

AC Power

Once the SmartXcan unit is placed in an environmentally appropriate location, connect the unit to a grounded AC power source of 100-240V 50/60Hz.

Note: The battery does not charge when the SmartXcan is connected to AC power.

Battery Power

Optionally, you may use the device without an AC power source by utilizing the battery.

Use the following steps to install the battery

- Step 1. Unlock the battery door on the rear of the unit
- Step 2. Install a charged battery onto the battery mounting plate by sliding the battery downwards onto a charging bay
- Step 3. Ensure the V-Mount rails are aligned between the charger and battery.
- Step 4. The battery is fully engaged when the latch makes an audible “click” sound and is firmly seated.

See ["Technical Specifications" on page 68](#) for Battery details.

Power over Ethernet (PoE)

The device can be powered using a PoE (802.3af) source. Connect the ethernet cable between the SmartXcan's Network port and the designated PoE switch.



Battery Charging

Battery Charging - Dual/Quad Charger

- Step 1. Plug the power cable into the charger and the AC power
- Step 2. Slide the battery downwards onto a charging bay, ensuring the V-Mount rails are aligned between the charger and battery. The battery is fully engaged when the latch makes an audible “click” sound and is firmly seated
- Step 3. Turn on the charging switch on the charger and the indicator light will turn red. The charger will begin charging the battery automatically.
- Step 4. When the indicator light turns orange the charging is almost finished.
- Step 5. When the indicator light turns green the charging is completely finished.
- Step 6. Turn off the charger.
- Step 7. Remove the battery by depressing the latch on the side of the battery charging base and sliding the battery upwards off the base.

Battery Charging - Travel Charger

- Step 1. Locate the D-tap charging port on the battery. Remove the rubber protective boot from the charging port.
- Step 2. Connect the charger’s D-tap plug into the port on the battery.
- Step 3. Connect the charger to the charger power cable.
- Step 4. Connect the charger power cable to the mains power.
- Step 5. The indicator light on the charger will turn red. The charger will begin charging the battery automatically.
- Step 6. When the indicator light turns orange the charging is almost finished.
- Step 7. When the indicator light turns green the charging is completely finished.
- Step 8. Turn off the charger.
- Step 9. Remove the battery by depressing the latch on the side of the battery charging base and sliding the battery upwards off the base.



Operating Modes

The SmartXcan device can be operated Standalone or connected to a Network.

Standalone

The SmartXcan device will operate as-is without any additional network or computer connections.

Networked

Optionally, the user may choose to connect the device to a single computer or a computer network to perform any of the following (but not limited to):

- + Enable a simple Kiosk mode
- + Configure the device
- + Verify environmental sensor readings
- + Update the device's firmware
- + Enable and utilize the built-in webhook APIs and device management abilities

The device uses a static IP address, unless it is plugged into a network with a DHCP server. If a DHCP server is present, the device will acquire an IP address from the DHCP server.

WARNING: If the SmartXcan is connected to a network, it is recommended that it be placed on its own VLAN. Care should be taken to provide segregation, security, and isolation from other networking devices and the internet. Access to the IP address of the device allows viewing of the live temperature sensor, regardless of whether a password has been entered or not. No configuration options are available from the kiosk mode.

Web Interface

The SmartXcan utilizes a built-in web server to view the active scanner as well as to manage the device and its settings. The device's web server can be accessed and configured via a web browser on a computer connected to the device's network port. The web server consists of:

- + Kiosk Interface: Main Landing page. A View Only screen showing the active temperature scanner and alarm status.
- + Configuration Interface: Administration Dashboard. Must login to access.

Accessing SmartXcan Web Interface

Use the following steps to access the SmartXcan web interface

- Step 1. Set the IP address of the computer you wish to connect the SmartXcan as stated below. (*Click for help changing IP address on a Mac or Windows*)
Computer IP Address: 192.168.100.101 Subnet Mask: 255.255.255.0
- Step 2. It is recommended to disable all other network sources of the computer such as WiFi. Any firewalls should also be disabled.
- Step 3. Open a web browser window and type in the following IP address 192.168.100.223

Note: If encryption certificates have not been configured for the device, you may need to continue past an SSL certificate warning.

Kiosk Interface

Connecting to the SmartXcan via a web-browser will open the kiosk interface shown below. The Kiosk Interface is a simplified interface that is suitable for non-privileged monitoring of the device. This kiosk interface may be accessed via a computer connected directly to the SmartXcan's network port or with the SmartXcan connected to a larger network.

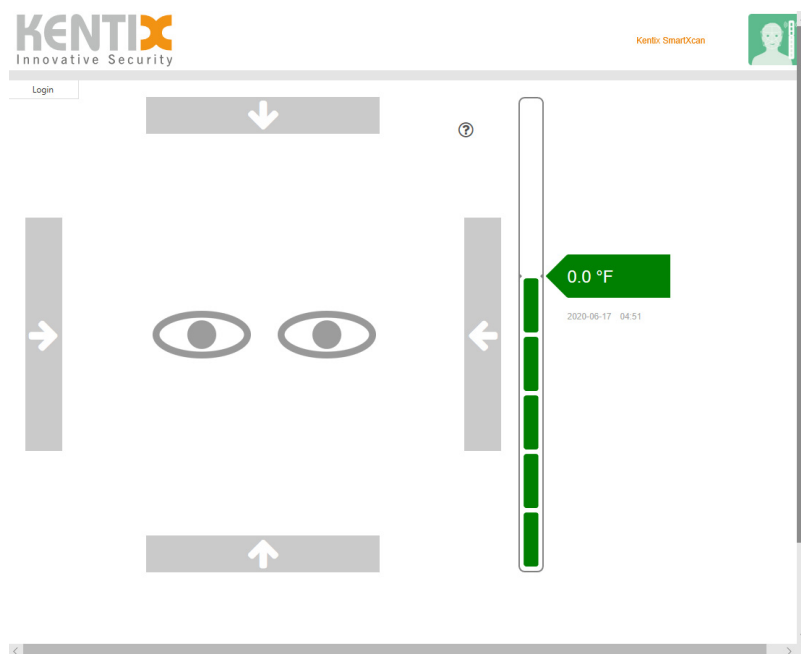


Figure 18: SmartXcan Landing Page/Kiosk Interface

Logging into SmartXcan Configuration Interface

To configure the device, click on the Login button from the Kiosk screen (upper left). Use the following default credentials to access the configuration interface.

User: admin

Password: password

If the credentials do not work or the IP address cannot be found, the unit may need to be reset to Factory Default. See ["Reset Device to Factory Default" on page 64](#). If the device is plugged into a network with a DHCP server, the address may have to be discovered by the user's IT department.

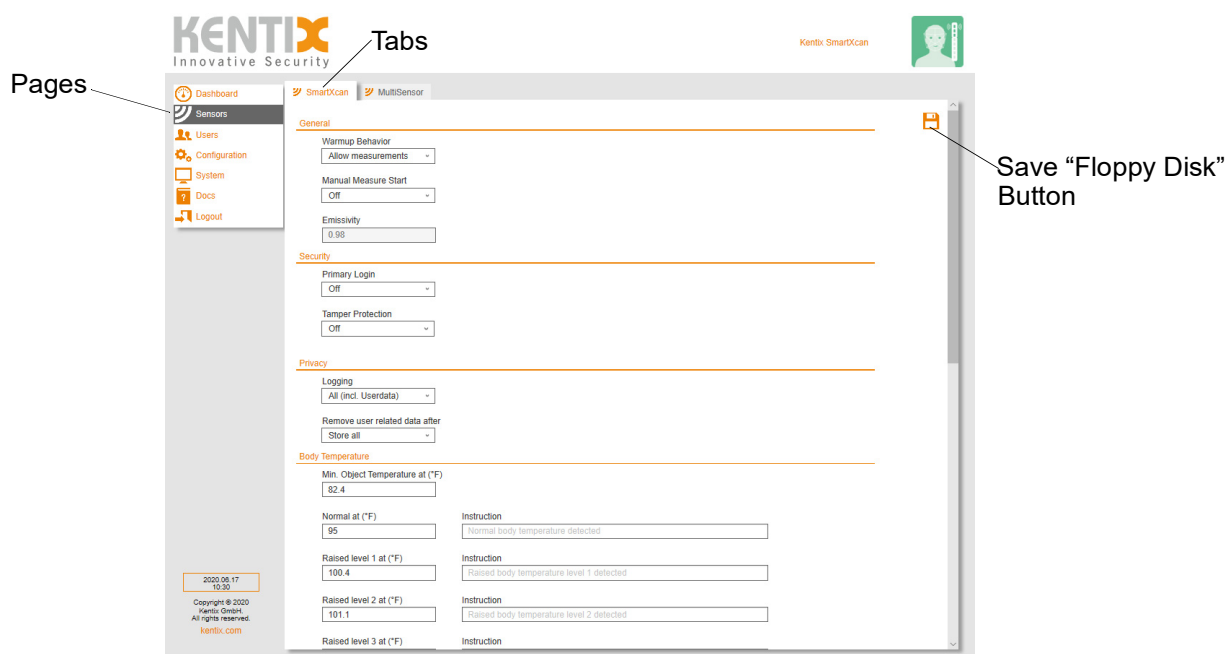
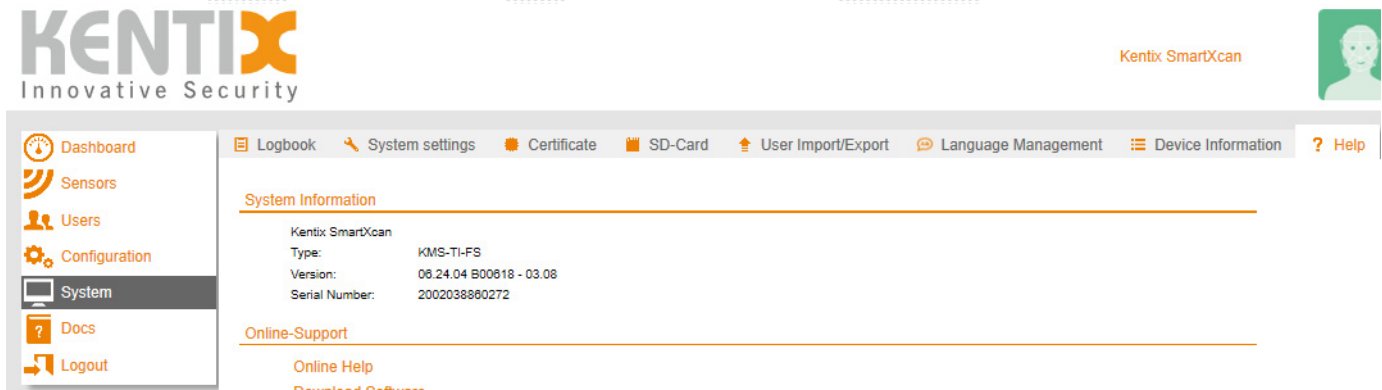


Figure 19: SmartXcan Web Interface Components

Checking Firmware Version

While logged in, click the “System” button to navigate to the System page. The device's current firmware version can be found on the “Help” tab.



The current version may vary from the version shown above.

The most up to date firmware can be found at prg.software/SmartXcan.

See "Updating SmartXcan Firmware" on page 62 for updating instructions.

CONFIGURATION

Set Time/Date

It is important to have an accurate Time and Date setting on the SmartXcan device. Each measurement is logged and can provide valuable data later. See "Privacy" on page 6.

- Step 1. On SmartXcan web interface, navigate to the Configuration page.
- Step 2. Under the General tab, find Time Settings.
- Step 3. Click the orange arrow under "Current system time"
- Step 4. Enter the desired time and date in the prompt.
- Step 5. Once the desired setting is made, click the top right floppy disk to save the settings.

A NTP primary and backup server can be used as a time server.

The screenshot shows the Kentix web interface for an 'EAST Door Scanner'. The left sidebar contains navigation links: Dashboard, Sensors, Users, Configuration (selected), System, Docs, and Logout. The top navigation bar includes links for General, Network, AlarmManager Communication, E-Mail, SNMP, Network Camera, Webhooks, LDAP Configuration, and Automatic Backup. The main content area is divided into three sections: General, Security, and Time Settings. The Time Settings section contains fields for NTP 1 (0.us.pool.ntp.org), NTP 2 (1.us.pool.ntp.org), Timezone (America/New York), and Current system time (2020.07.10 10:24). The 'Current system time' field is circled in red, and an orange arrow points to it, indicating the step to click the arrow to set the time.

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EAST Door Scanner

Dashboard
Sensors
Users
Configuration
System
Docs
Logout

General Network AlarmManager Communication E-Mail SNMP Network Camera Webhooks LDAP Configuration Automatic Backup

General

Name
EAST Door Scanner

Language
English

Temperature unit
Fahrenheit

Security

Communication Key

API Authentication Key

Time Settings

NTP 1
0.us.pool.ntp.org

NTP 2
1.us.pool.ntp.org

Timezone
America/New York

Current system time
2020.07.10 10:24

2020.07.10 10:26
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Figure 20: Set System Time/Date

Set Temperature Unit of Measure

The device's unit of measure for temperature defaults to Fahrenheit. This can be changed to Celsius within the Configuration page on the General tab.

- Step 1. On SmartXcan web interface, navigate to the Configuration page.
- Step 2. Click the arrow within “Temperature Unit” to select the desired unit of measure
- Step 3. Once the desired setting is made, click the top right floppy disk to save the settings.

The screenshot displays the Kentix SmartXcan web interface. The top header features the Kentix logo and the text "Innovative Security". The main navigation bar includes tabs for Dashboard, Sensors, Users, Configuration, System, Docs, and Logout. The Configuration page is active, showing the General tab. The "Temperature unit" dropdown menu is highlighted with a red circle, showing "Fahrenheit" as the selected option. Other settings visible include Name (Kentix SmartXcan), Language (English), Communication Key, API Authentication Key, NTP 1 (0.de.pool.ntp.org), NTP 2 (1.de.pool.ntp.org), Timezone (Europe/Berlin), and Current system time (2020.06.17 10:42). A floppy disk icon in the top right corner indicates the save function.

Figure 21: Set Temperature Unit

Change Network Settings

Note: Altering network settings may inhibit communication with the SmartXcan device.

Step 1. Navigate to the Configuration Page within the SmartXcan web interface.

Step 2. Once the network settings are set as desired, click the top right floppy disk to save the settings.

It is recommended that you manually configure a unique static IP Address per device when placing multiple SmartXcan units on the same network.

The screenshot displays the Kentix SmartXcan web interface. The top header features the Kentix logo with the tagline 'Innovative Security' on the left, the text 'Kentix SmartXcan' on the right, and a user profile icon. A navigation menu on the left lists: Dashboard, Sensors, Users, Configuration (selected), System, Docs, and Logout. The main content area has a sub-menu with: General, Network (selected), AlarmManager Communication, E-Mail, SNMP, Network Camera, Webhooks, and LDAP Configuration. Below this is an 'Automatic Backup' button. The 'Network Interfaces' section contains radio buttons for 'DHCP' (selected) and 'Manually'. Under 'DHCP', there are input fields for 'IP Address', 'Subnet Mask', and 'Gateway' (pre-filled with '192.168.100.1'). A checkbox 'Use static IP Address as fallback' is checked. Under 'Manually', there are input fields for 'IP Address' (pre-filled with '192.168.100.223'), 'Subnet Mask' (pre-filled with '255.255.255.0'), and 'DNS Server'. The 'DNS Server' section has two input fields, both pre-filled with '192.168.100.1'. A save icon (floppy disk) is in the top right. The footer shows the date '2020.06.17 10:43', copyright information 'Copyright © 2020 Kentix GmbH. All rights reserved.', and the website 'kentix.com'.

Figure 22: Configuration Page Network Tab

Change User Name & Password

It is highly recommended to change the Login User Name and Password when connecting the SmartXcan device to a network.

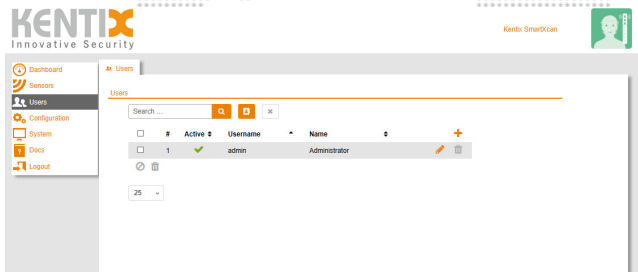


Figure 23: Users Main Page

Step 1. To edit or create additional login credentials, navigate to the User page within the SmartXcan web interface.

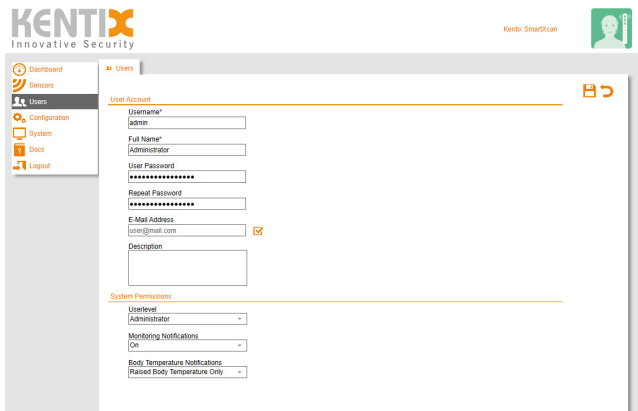


Figure 24: User Edit Window

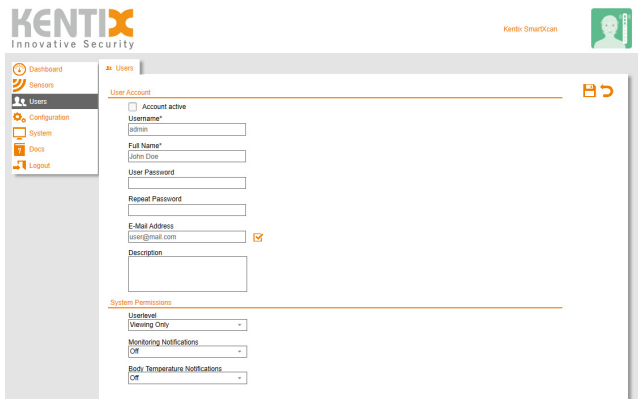


Figure 25: User Add Window

Step 2. Once the user settings are set as desired, click the top right floppy disk to save the settings.

Change Warmup Behavior

By default, the SmartXcan will allow temperature measurements while the warmup (acclimation) period is still in progress. In typical conditions, the warmup period will take 15 minutes. The warmup period is critical for the device to neutralize itself to environmental conditions and inaccurate readings can occur if not completed.

- Step 1. Navigate to the Sensors Page within the SmartXcan web interface.
- Step 2. Select from Allow Measurements (default) or Block Measurements under "Warmup Behavior"
- Step 3. Once the desired setting is made, click the top right floppy disk to save the settings.

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Innovative Security

Kentix SmartXcan

Dashboard | SmartXcan | MultiSensor

Sensors

Users | Configuration | System | Docs | Logout

General

Warmup Behavior
Allow measurements

Manual Measure Start
Off

Emissivity
0.98

Security

Primary Login
Off

Tamper Protection
Off

Privacy

Logging
All (incl. Userdata)

Remove user related data after
Store all

Body Temperature

Min. Object Temperature at (°F)
82.4

Normal at (°F)
95

Raised level 1 at (°F)
100.4

Raised level 2 at (°F)
101.1

Raised level 3 at (°F)

Instruction
Normal body temperature detected

Instruction
Raised body temperature level 1 detected

Instruction
Raised body temperature level 2 detected

Instruction

2020.06.17 10:30
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Figure 26: Configure Warmup Behavior

Enable Tamper Protection

The SmartXcan has on-board tamper protection providing security from temperature reading manipulation. By default, tamper protection is OFF. Depending on the sensitivity level, tamper protection can block the SmartXcan from completing temperature scans due to foreign objects, incorrect head position, and failed eye detection. Due to the additional processing, temperature measurements will take more time per scan. Typically tamper protection is not necessary when the scanner is being monitored.

There are two levels of sensitivity when tamper protection is enabled.

- + Low: Detects proper head position for measurement to be taken
- + High: Proper head position and eye recognition.

- Step 1. Navigate to the Sensors page within the SmartXcan web interface. On the SmartXcan tab, find the Security section of the page.
- Step 2. Select from OFF (default) or ON under “Tamper Protection”.
- Step 3. Select the desired sensitivity level.
- Step 4. Once the desired settings are made, click the top right floppy disk to save the settings.

The screenshot shows the Kentix SmartXcan web interface. The top navigation bar includes the Kentix logo, the text 'Innovative Security', the 'Kentix SmartXcan' label, and a user profile icon. The left sidebar contains a menu with 'Dashboard', 'Sensors', 'Users', 'Configuration', 'System', 'Docs', and 'Logout'. The main content area is divided into sections: 'General', 'Security', 'Privacy', and 'Body Temperature'. The 'Security' section is currently active, and the 'Tamper Protection' dropdown menu is highlighted with a red circle. The 'Body Temperature' section contains several input fields for temperature thresholds and corresponding instructions.

Section	Setting	Value
General	Warmup Behavior	Allow measurements
	Manual Measure Start	Off
	Emissivity	0.98
Security	Primary Login	Off
	Tamper Protection	Off
Privacy	Logging	All (incl. Userdata)
	Remove user related data after	Store all
Body Temperature	Min. Object Temperature at (°F)	82.4
	Normal at (°F)	95
	Normal Instruction	Normal body temperature detected
	Raised level 1 at (°F)	100.4
	Raised level 1 Instruction	Raised body temperature level 1 detected
	Raised level 2 at (°F)	101.1
Raised level 2 Instruction	Raised body temperature level 2 detected	
Raised level 3 at (°F)		
Raised level 3 Instruction		

2020.06.17 10:30
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kentix.com

Figure 27: Configure Tamper Protection

Change Acceptable Temperature Ranges

The acceptable temperature ranges of the SmartXcan device can be configured based on the user's preference. The default ranges can be found at **Figure 16** on page 24.

The screenshot displays the Kentix SmartXcan web interface. At the top, the Kentix logo and 'Innovative Security' tagline are visible on the left, and 'Kentix SmartXcan' with a user profile icon is on the right. A navigation sidebar on the left contains links for Dashboard, Sensors, Users, Configuration, System, Docs, and Logout. The main content area is titled 'Body Temperature' and includes the following configuration fields:

Field	Value	Instruction
Min. Object Temperature at (°F)	82.4	
Normal at (°F)	95	Normal body temperature detected
Raised level 1 at (°F)	100.4	Raised body temperature level 1 detected
Raised level 2 at (°F)	101.1	Raised body temperature level 2 detected
Raised level 3 at (°F)	102.9	Raised body temperature level 3 detected
Body Core Temperature Correction	4.0	
DTC (Dynamic Temperature Correction)	Medium	

A floppy disk icon in the top right corner of the configuration area indicates the save function.

Figure 28: Sensors Page SmartXcan Tab

There is a Normal minimum temperature and three Raised levels. The multiple raised levels can be helpful to determine high-risk subjects. The SmartXcan Mobile Pedestal indicator and all remote indicators will show RED for all raised levels.

- Step 1. Navigate to the Sensors page within the SmartXcan web interface.
- Step 2. On the SmartXcan tab, scroll down to the Body Temperature section.
- Step 3. The minimum object temperature is the minimum temperature the subject can be for a reading.
- Step 4. Normal is the minimum temperature for an Acceptable (GREEN) temperature reading.
- Step 5. Raised level 1 is the minimum temperature for a Not-Acceptable (RED) temperature reading. According to CDC guidelines, this should be set to 100.4°F/38°C.
- Step 6. Raised level 2 is the minimum temperature for a Not-Acceptable (RED) temperature reading. By default, this is set to 101.1F/38.4°C.
- Step 7. Raised level 3 is the minimum temperature for a Not-Acceptable (RED) temperature reading. By default, this is set to 102.9F/39.4°C.
- Step 8. Once the desired settings are made, click the top right floppy disk to save the settings.

Change the Body Core Temperature Correction

The body core temperature correction value is the value which is added to the measured skin surface temperature to determine the body core temperature. By default, this is set to zero.

- Step 1. Navigate to the Sensors page within the SmartXcan web interface. On the SmartXcan tab, scroll down to the Body Temperature section.
- Step 2. Once the desired settings are made, click the top right floppy disk to save the settings.

The screenshot displays the Kentix SmartXcan web interface. The top header includes the Kentix logo and the text 'Innovative Security'. The main navigation menu on the left lists 'Dashboard', 'Sensors', 'Users', 'Configuration', 'System', 'Docs', and 'Logout'. The 'Sensors' section is active, showing 'SmartXcan' and 'MultiSensor' tabs. The 'Body Temperature' configuration page is visible, featuring several input fields and a save button. The 'Body Core Temperature Correction' field is highlighted with a red oval and contains the value '4.0'. Below this field is a dropdown menu for 'DTC (Dynamic Temperature Correction)' set to 'Medium'. The 'Acoustic Signaling' section includes 'Signaling Mode' (Pulsating) and 'Signaling Duration' (3 Seconds). The 'Location' section has fields for 'Street and Number', 'Postal Code', and 'City'. A footer box in the bottom left corner shows the date '2020.06.17 10:31', copyright information, and the website 'kentix.com'.

Body Temperature	
Min. Object Temperature at (°F)	82.4
Normal at (°F)	95
Instruction	Normal body temperature detected
Raised level 1 at (°F)	100.4
Instruction	Raised body temperature level 1 detected
Raised level 2 at (°F)	101.1
Instruction	Raised body temperature level 2 detected
Raised level 3 at (°F)	102.9
Instruction	Raised body temperature level 3 detected
Body Core Temperature Correction	4.0
DTC (Dynamic Temperature Correction)	Medium

Acoustic Signaling	
Signaling Mode	Pulsating
Signaling Duration	3 Seconds

Location	
Street and Number	
Postal Code	
City	

Figure 29: Configure Body Core Temperature Correction

Change the Dynamic Temperature Correction (DTC) level

The SmartXcan device is equipped with a temperature correction feature which enables the software to correct the measured temperature to the actual body core temperature. This is typically only required when subjects have previously been in lower temperatures compared to the environment of the SmartXcan.

By default, this is set to OFF.

Step 1. Navigate to the Sensors page within the SmartXcan web interface.

Step 2. On the SmartXcan tab, scroll down to the Body Temperature section.

Step 3. Select the desired DTC setting. There are four levels of DTC:

- Off: DTC is disabled.
- Low: If subject has been in medium to cool temperatures prior to measurement.
- Medium: If subject has been in cool to cold temperatures prior to measurement
- High: If subject has been in very cool to frosty temperatures prior to measurement

Step 4. Once the desired settings are made, click the top right floppy disk to save the settings.

The screenshot displays the Kentix SmartXcan web interface. The top header includes the Kentix logo and 'Innovative Security'. The left sidebar contains navigation links: Dashboard, Sensors, Users, Configuration, System, Docs, and Logout. The main content area is titled 'Body Temperature' and includes several configuration fields:

- Min. Object Temperature at (°F): 82.4
- Normal at (°F): 95
- Raised level 1 at (°F): 100.4
- Raised level 2 at (°F): 101.1
- Raised level 3 at (°F): 102.9
- Body Core Temperature Correction: 4.0
- DTC (Dynamic Temperature Correction): Medium (highlighted with a red circle)
- Acoustic Signaling: Signaling Mode (Pulsating), Signaling Duration (3 Seconds)
- Location: Street and Number, Postal Code, City

The bottom left corner shows the date and time: 2020.06.17 10:31, and copyright information: Copyright © 2020 Kentix GmbH. All rights reserved. kentix.com.

Figure 30: Configure Dynamic Temperature Correction

Change Audible Signals

The SmartXcan device can play an audible signal to indicate a negative (RED) temperature measurement. The alarm can be set to a continuous or pulsating signal with a custom duration. By default, this is set to Pulsating.

- Step 1. Navigate to the Sensors page within the SmartXcan web interface.
- Step 2. On the SmartXcan tab, scroll down to the Acoustic Signaling section.
- Step 3. Once the desired settings are made, click the top right floppy disk to save the settings.

The screenshot displays the Kentix SmartXcan web interface. The top navigation bar includes the Kentix logo, the text 'Innovative Security', and a 'Kentix SmartXcan' label next to a user profile icon. A left sidebar contains a menu with options: Dashboard, Sensors (selected), Users, Configuration, System, Docs, and Logout. The main content area is titled 'SmartXcan' and 'MultiSensor'. It features a 'Body Temperature' section with fields for 'Min. Object Temperature at (°F)' (82.4), 'Normal at (°F)' (95), and three 'Raised level' settings (1 at 100.4, 2 at 101.1, 3 at 102.9), each with an associated instruction field. Below this is a 'Body Core Temperature Correction' field (4.0) and a 'DTC (Dynamic Temperature Correction)' dropdown (Medium). The 'Acoustic Signaling' section, highlighted with a red oval, contains a 'Signaling Mode' dropdown (Pulsating) and a 'Signaling Duration' dropdown (3 Seconds). At the bottom, there is a 'Location' section with fields for 'Street and Number', 'Postal Code', and 'City'. A timestamp '2020.06.17 12:31' and copyright notice are visible in the bottom left corner.

Figure 31: Configure Audible Signals

Adjust Pedestal LED Light Settings

The SmartXcan Mobile Pedestal LED Indicator by default will illuminate Green after a normal body temperature scan or illuminate Red after a raised body temperature scan. The LED Indicator will be illuminated for one (1) second.

- Digital Output 1 (DO1) refers to the Red LED Indicator
- Digital Output 2 (DO2) refers to the Green LED Indicator

The screenshot shows the SmartXcan MultiSensor configuration page. On the left is a sidebar with navigation links: Dashboard, Sensors, Users, Configuration, System, Docs, and Logout. The main content area is divided into sections. The 'Alarm Values' section includes settings for Room Temperature (Min: 50°F, Max: 96°F, Offset: 0), Humidity (Min: 10%, Max: 80%), Dewpoint (Hysteresis: 4°F), and Vibration (Sensitivity: Low). The 'System Port' section contains settings for Digital Input 1 and 2 (both set to Off), and Digital Output 1 and 2. Digital Output 1 is set to 'Raised body temperatur...' with Name 'DO1' and Switching Duration '1'. Digital Output 2 is set to 'Normal body temperatur...' with Name 'DO2' and Switching Duration '1'. Red arrows point from the text 'to turn off either, or both lights, set to "None".' to the Digital Output 1 and 2 dropdown menus. Another red arrow points from the text 'change light duration' to the Switching Duration input fields. A floppy disk icon in the top right corner is used to save settings. At the bottom left, a date and time stamp reads '2020.06.17 4:05:55'.

Figure 32: Configure Pedestal LED Indicator Light

To Disable the Pedestal LED Indicator

- Step 1. Navigate to the Sensors page within the SmartXcan web interface.
- Step 2. On the MultiSensor tab, scroll down to the System Port section.
- Step 3. Under Digital Output, choose OFF to disable the desired indicator.
- Step 4. Once the desired settings are made, click the top right floppy disk to save the settings.

To Change the Duration of the Pedestal LED Indicator

- Step 1. Navigate to the Sensors page within the SmartXcan web interface.
- Step 2. On the MultiSensor tab, scroll down to the System Port section.
- Step 3. Under Switching Duration, choose the number of seconds under the desired indicator.
- Step 4. Once the desired settings are made, click the top right floppy disk to save the settings.

Adjust MultiSensor Alarm Settings

The various sensors on the SmartXcan device can be set to alarm if they are outside an acceptable range. This is helpful when moving the unit to multiple locations or if the operator may not be conscious of the environmental conditions. In a typical configuration, this alarm would be visible on the main Dashboard page (after login) of the SmartXcan web interface. By default, all MultiSensor alarms are off.

The Vibration alarm can be used to detect physical tampering. If the unit is to be moved, this should be disabled as the alarm might accidental be set off as a result of the movement.

- Step 1. Navigate to the System page within the SmartXcan web interface. On the MultiSensor tab, find the Alarm Values section.
- Step 2. Once the desired settings are made, click the top right floppy disk to save the settings.

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Kentix SmartXcan

Dashboard | SmartXcan | MultiSensor

Sensors

Users | Configuration | System | Docs | Logout

Alarm Values

Room Temperature	Min (°F)	Max (°F)	Offset (°F)
Off	50	86	0
Humidity	Min (%)	Max (%)	
Off	10	80	
Dewpoint	Hysteresis (°F)		
Off	4		
Vibration	Sensitivity		
Off	Low		

System Port

Digital Input 1	Name	Alarm if
Off	DI1	Closed
Digital Input 2	Name	Alarm if
Off	DI2	Closed
Digital Output 1	Name	Switching Duration
Raised body temperat...	DO1	1 ✓
Digital Output 2	Name	Switching Duration
Normal body temperat...	DO2	1 ✓

Webhooks

#	Name	Alarm Assignment

2020.06.17 10:32
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Figure 33: Configure MultiSensor Alarm Ranges

Set Temperature Scanning Record Keeping

By default, the SmartXcan stores temperature scans recorded by the device. These include the measured body temperature, the measurement distance, and a time stamp. This data is stored on-board the SmartXcan device in memory. If you require the scanning information to remain stored through power cycles and reboots a micro SD Card is required. See [Configure SD Card](#) below.

- Step 1. Navigate to the Sensors page within the SmartXcan web interface. On the SmartXcan tab, scroll down to the Privacy section.
- Step 2. Once the desired settings are made, click the top right floppy disk to save the settings.

The screenshot shows the Kentix SmartXcan web interface. The top navigation bar includes the Kentix logo, 'Innovative Security', and a 'Kentix SmartXcan' label. The left sidebar contains a menu with 'Dashboard', 'Sensors', 'Users', 'Configuration', 'System', 'Docs', and 'Logout'. The main content area is titled 'SmartXcan' and 'MultiSensor'. It features several sections: 'General' with 'Warmup Behavior' (Allow measurements), 'Manual Measure Start' (Off), and 'Emissivity' (0.98); 'Security' with 'Primary Login' (Off) and 'Tamper Protection' (Off); 'Privacy' with 'Logging' (All (incl. Userdata)) and 'Remove user related data after' (Store all); and 'Body Temperature' with thresholds and instructions for normal and raised levels. The 'Logging' dropdown in the Privacy section is circled in red. A floppy disk icon in the top right corner indicates the save function.

Figure 34: Configure Temperature Scanning Record Keeping

Configure SD Card

The addition of a Micro SD card to the SmartXcan provides

- The capability to capture and archive the scanned image data for reference
- The ability to automatically backup the unit and it's configuration on a daily basis

- Step 1. Remove the SmartXcan temperature scanner from the mobile pedestal.

Step 2. Insert a Micro SD Card into the base of the unit beside the network connection

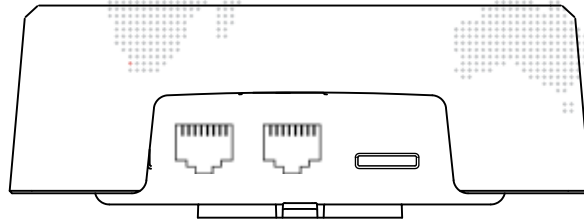


Figure 35: Temperature Scanner Rear Ports

Step 3. Navigate to the System page within the SmartXcan web interface. On the SD-Card tab, click “Format SD-Card”.

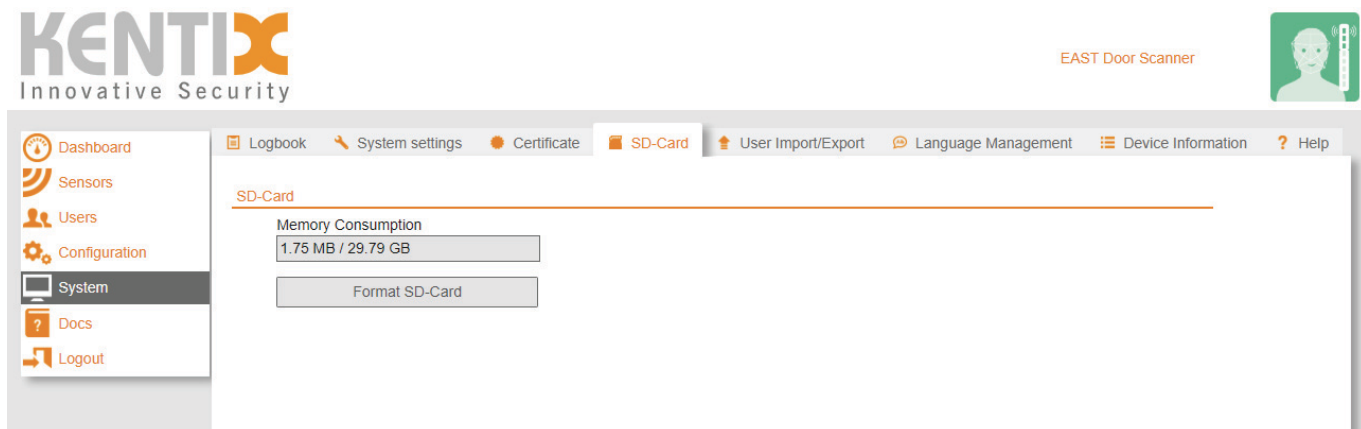


Figure 36: SD-Card Formatting

Step 4. Click “Format SD-Card” again to confirm the format request

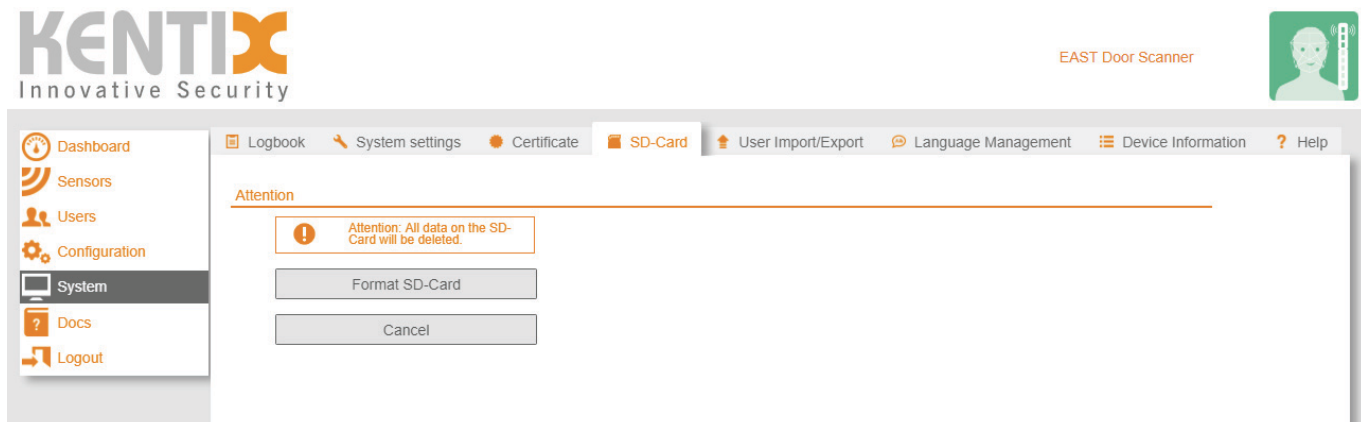


Figure 37: SD-Card Formatting Confirmation

A pop up window will appear when SD-Card has completed formatting.

Import/Export Configuration

The configuration file of the SmartXcan device can be Imported or Exported.

- Step 1. Navigate to the Sensors page within the SmartXcan web interface.
- Step 2. On the SmartXcan tab, scroll down to the Import/Export configuration section.
- Step 3. To export, click export configuration and save the file to a known location on your computer.
- Step 4. To import, press the “Choose the configuration file” button and select the desired configuration file from your computer.
- Step 5. Once selected, press the “Import configuration” button.

Note: Connectivity to the SmartXcan web interface can be affected depending on the configuration import settings.

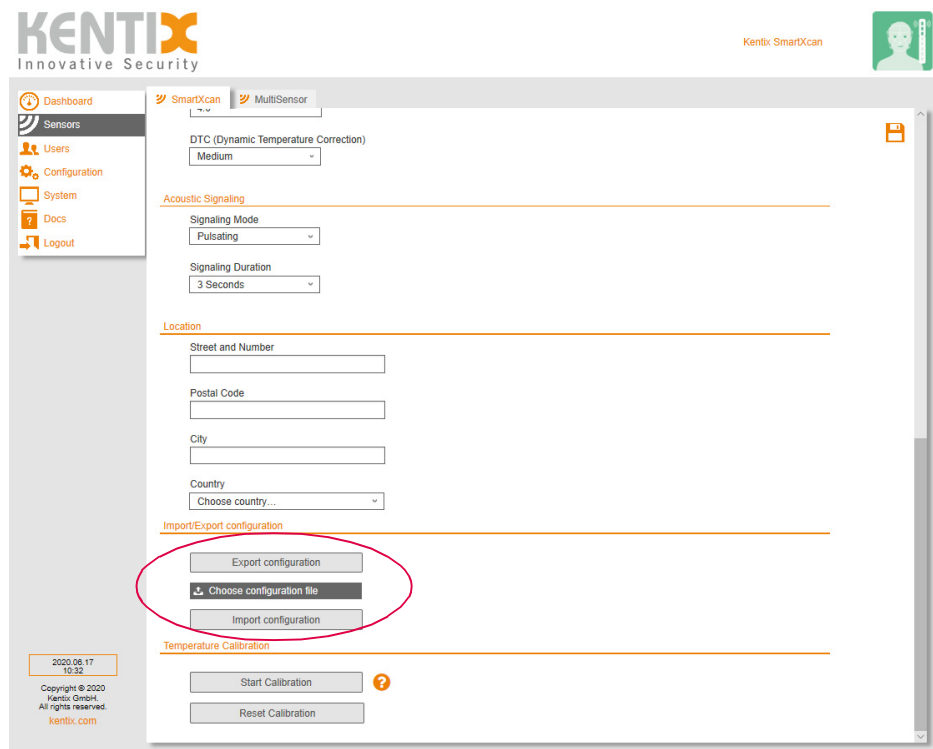


Figure 38: Import/Export Configuration

External Connections/Webhooks

For information please visit the Kentix website at <https://docs.kentix.com/display/API/Webhooks>

Further information or assistance contact SmartXcanSupport@prg.com



OPERATION

Temperature Screening Process

The following will explain the steps for manual temperature screening.

Important Notes for Testing Subjects

- + Subjects must acclimate within the SmartXcan environment if coming in from cool environment such as cold storage/ice floor.
- + Hot environments only affect temperature scanning if the subject's face is sweaty.
- + Subject should remove any hats/visors.
- + Subject's face should not be covered by hair or glasses.
- + Subject's face should not be sweaty or have otherwise wet skin.

Self-Measurement Process

Step 1. Approach the testing device.

Step 2. Remove any glasses or hair blocking the forehead.

Step 3. Focus onto the LED ring at a distance of one (1) foot. The LED ring will turn green once in the measurement zone.

Note: If the temperature ring does not turn green when user is within the measurement testing zone follow these steps: User should move closer to the testing sensor, glasses should be removed, eyes should remain open, face is neutral.

Step 4. When the pedestal LED turns on, the measurement is complete.

Step 5. By default, a Green light indicates the subject's temperature is <100.4°F and a Red light indicates the subject's temperature is >100.4°F.

Step 6. Clear the measurement area before allowing a new test subject.

These steps are **ONLY** intended to describe the operation of the temperature scanning device. This manual is **NOT** intended to provide guidance on proper testing procedures or the process to handle fever-positive subjects.

Software Testing Process

Running the SmartXcan web browser can assist in validating the results of a temperature reading.

- Step 1. Enter the IP address of the SmartXcan device. By default, the IP address is 192.168.100.223
- Step 2. The subject should approach the testing device.
- Step 3. Subject removes any glasses or hair blocking the forehead.
- Step 4. They should focus onto the LED ring at a distance of one (1) foot. The LED ring will turn green once in the measurement zone.

Note: If the temperature ring does not turn green when user is within the measurement testing zone follow these steps: User should move closer to the testing sensor, glasses should be removed, eyes should remain open, face is neutral.

- Step 5. When the temperature appears on the screen, the measurement is complete.
- Step 6. By default, a Green bar indicates the subject's temperature is <100.4°F and a Red bar indicates the subject's temperature is >100.4°F.
- Step 7. Clear the measurement area before allowing a new test subject.

These steps are **ONLY** intended to describe the operation of the temperature scanning device. This manual is **NOT** intended to provide guidance on proper testing procedures or the process to handle fever-positive subjects.

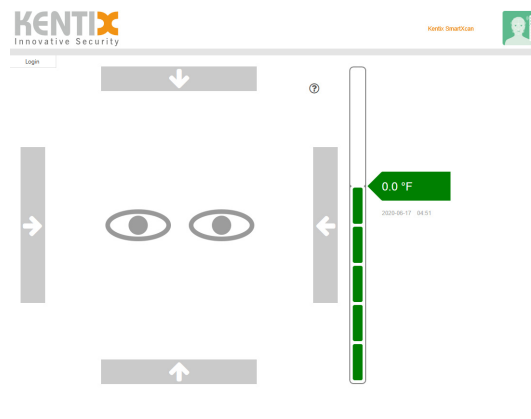


Figure 39: Main Kiosk Page - No Testing Subject



Figure 40: Main Kiosk Page - Acceptable Measurement Result

SOFTWARE WINDOWS

Kiosk / Main Landing Page

The Kiosk page is the main landing page upon accessing the SmartXcan web interface.

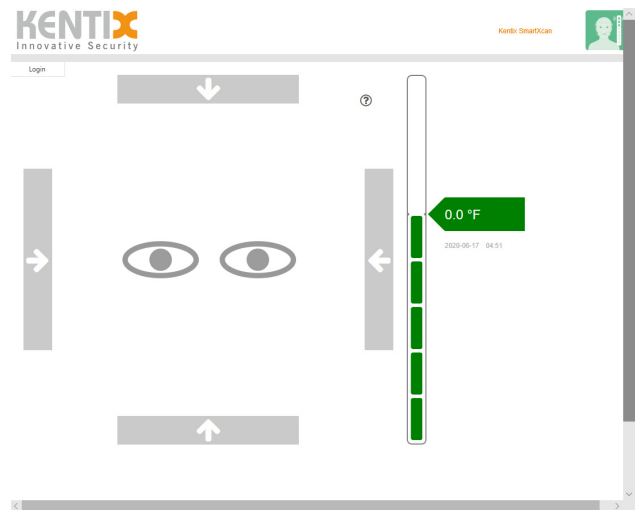


Figure 41: Kiosk Page

Dashboard Page

The Dashboard page is the landing window upon logging into the SmartXcan web interface. Critical information such as the System State, Sensor Information, Sensor Alarms, and measurement history can be found within the Dashboard page.

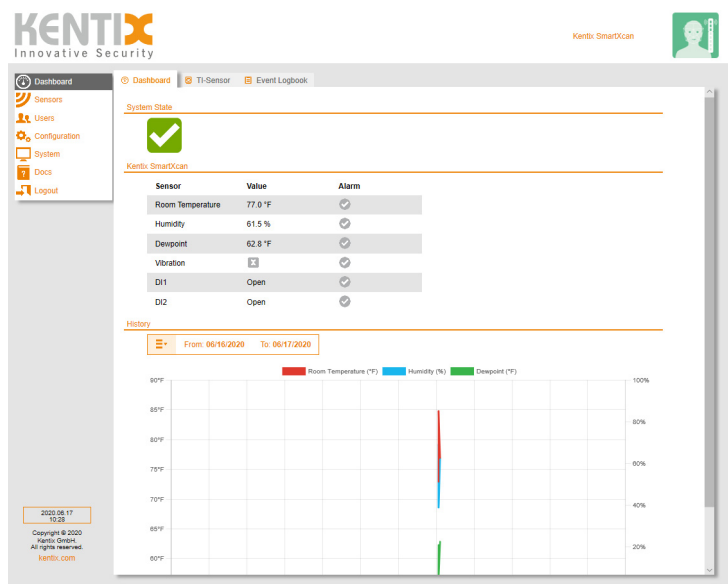


Figure 42: Dashboard Page

Dashboard - TI Sensor

The TI Sensor tab reveals a live Thermal graphic from the SmartXcan sensor.

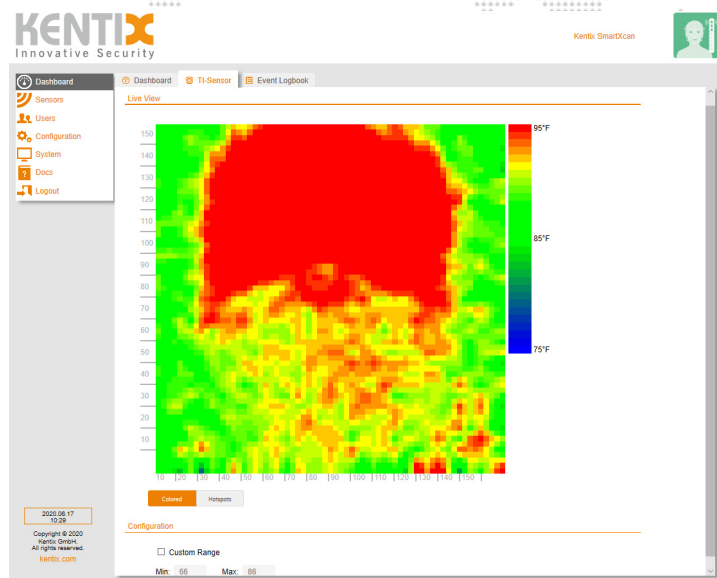


Figure 43: TI Sensor Tab

Dashboard - Event Logbook

The Event Logbook tab reveals the full record of scanning history.

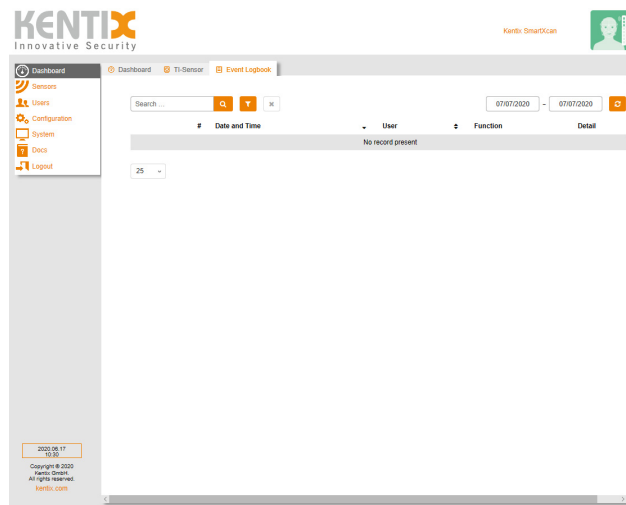


Figure 44: Event Logbook Tab

Sensors Page

Sensors - SmartXcan

The Sensors page is where most temperature measurement settings are made. Critical options such as warm up behavior, acceptable temperature ranges, and logging privacy can be found here.

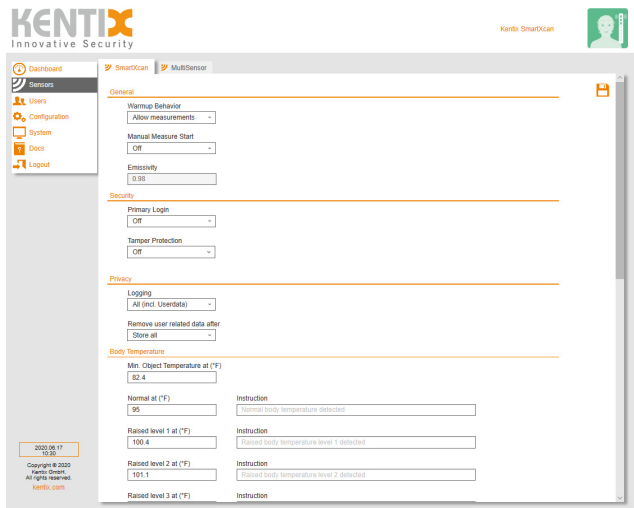


Figure 45: Sensors Configuration Tab

Sensors - MultiSensor

The MultiSensor tab allows for sensor alarm values to be set in addition to settings for the indicator light.

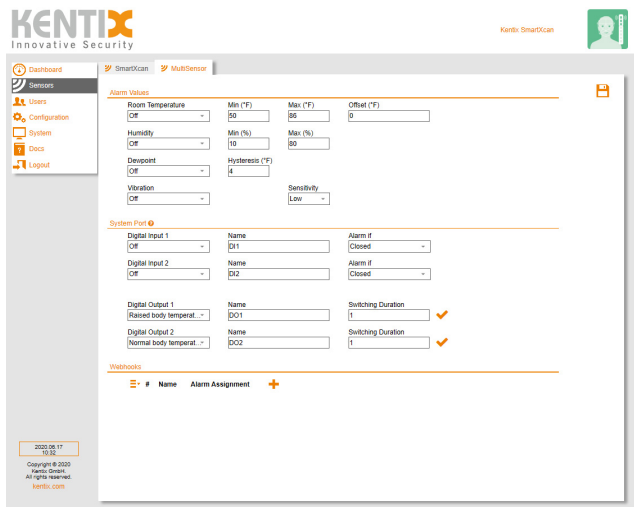


Figure 46: MultiSensor Configuration Tab

Users Page

The Users page is to manage, add, and edit user accounts for the SmartXcan web interface.

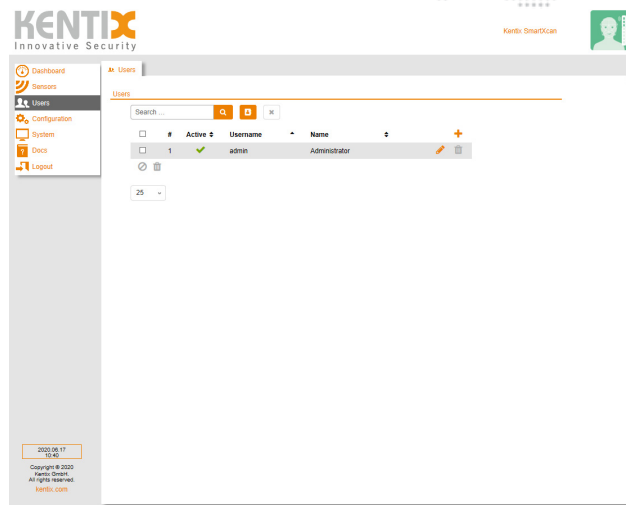


Figure 47: Users Page

Configuration Page

Configuration - General

The Configuration page is where the unit's main configuration is found. Important configuration options such as temperature unit, time/date, network, and external connections can be found here.

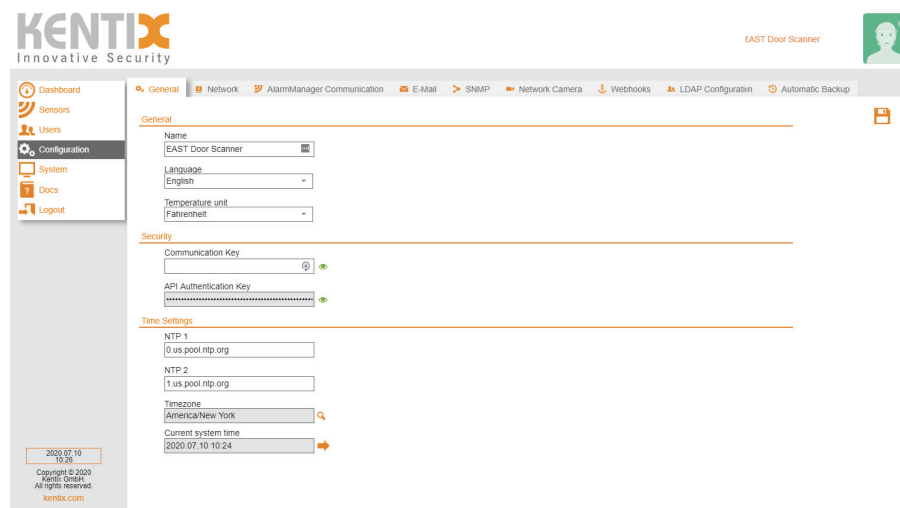


Figure 48: Configuration General Tab

Configuration - Network

The Network tab allows for network configuration of the SmartXcan device.

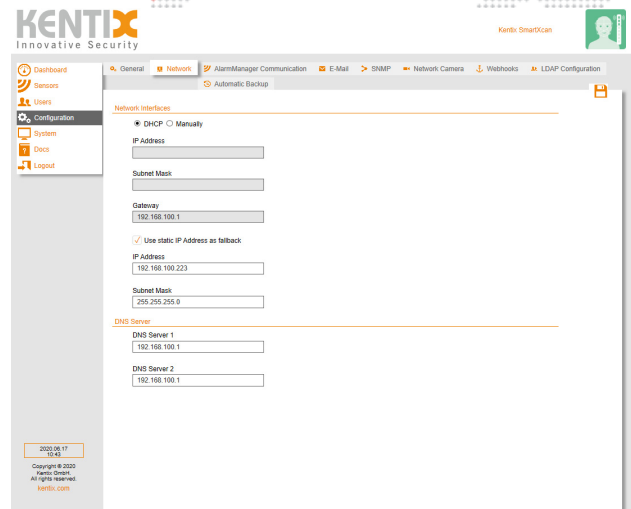


Figure 49: Configuration Network Tab

Configuration - Email

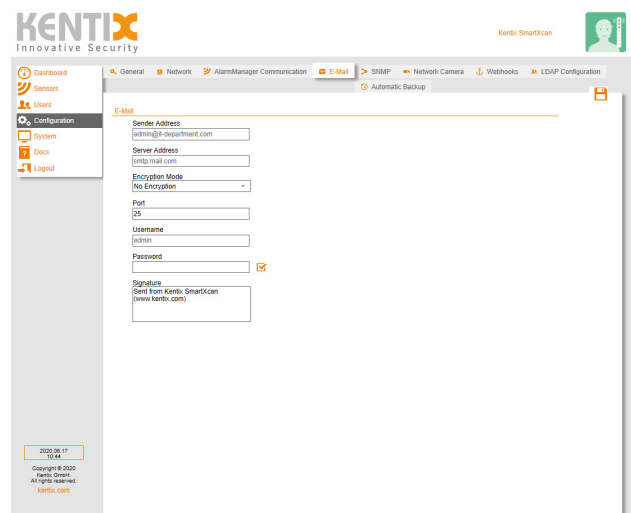


Figure 50: Configuration Email Tab

Configuration - SNMP

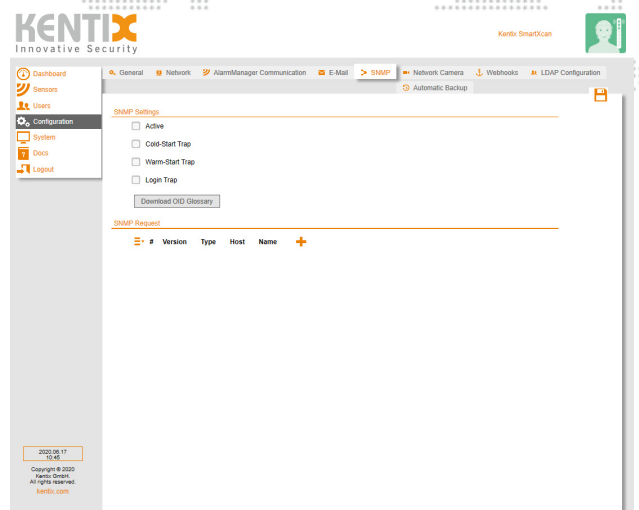


Figure 51: Configuration SNMP Tab

Configuration - Network Camera

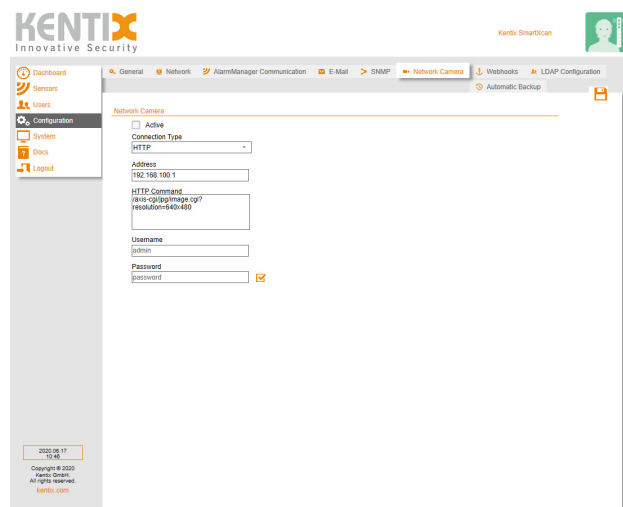


Figure 52: Configuration Network Camera Tab

Configuration - Webhooks

The screenshot shows the KENTIX Innovative Security web interface. The top navigation bar includes links for General, Network, AlarmManager Communication, E-Mail, SNMP, Network Camera, Webhooks (selected), LDAP Configuration, and Automatic Backup. The left sidebar contains links for Dashboard, Sensors, Users, Configuration (selected), System, Docs, and Logout. The main content area is titled 'Webhook Settings' and includes a 'Webhook Settings' section with a 'Name' field (API-01), an 'HTTP Method' dropdown (POST), a 'URL' field (https://my-api-endpoint.com), an 'Authentication' dropdown (None), and a 'Content-Type' dropdown (application/json). Below these fields is a 'Data' section with a JSON payload. A 'Check Webhook' button is at the bottom.

KENTIX
Innovative Security

EAST Door Scanner

Dashboard
Sensors
Users
Configuration
System
Docs
Logout

General Network AlarmManager Communication E-Mail SNMP Network Camera Webhooks LDAP Configuration Automatic Backup

Webhook Settings

Active

Name
API-01

HTTP Method
POST

URL
https://my-api-endpoint.com

Authentication
None

Content-Type
application/json

Data

```
{
  "ScanTime": "TIMES",
  "ScanDate": "DATES",
  "ScanEntranceName": "East Entrance",
  "ScanStreet": "$LOCATION_STREET$",
  "ScanCity": "$LOCATION_CITY$",
  "ScanPostalCode": "$LOCATION_POSTAL_CODES$",
  "ScanCountry": "$LOCATION_COUNTRIES$",
  "ScanBodyTempValue": "$BODY_TEMPERATURE_VALUES$",
  "ScanBodyTempLevel": "$BODY_TEMPERATURE_LEVEL$",
  "ScanBodyTempAlarm": "$BODY_TEMPERATURE_ALARMS$",
  "ScanOutdoorTemp": "$OUTDOOR_TEMPERATURE_VALUES$",
  "ScanIndoorTemp": "$INDOOR_TEMPERATURE_VALUES$",
  "ScanHumidity": "$HUMIDITY_VALUES$",
  "ScanSequenceNumber": "$SEQUENCE_NUMBERS$",
  "temperature-unit": "$TEMP_UNITS$",
  "low-temperature-alarm": "$LOW_TEMP_ERRORS$",
  "ScanInfoNumber": "$HFUIDUID$",
  "ScanUser": "$USERS$",
  "ScanUserName": "$USERNAMES$",
  "ScanManufacturerSerialNumber": "$DJX20200603398002"
}
```

Check Webhook

2020.07.10 10:46
Copyright © 2020 KENTIX GmbH. All rights reserved. kentix.com

Figure 53: Configuration Webhooks Tab

Configuration - LDAP

The screenshot shows the KENTIX LDAP Configuration page. The top navigation bar includes links for General, Network, AlarmManager Communication, E-Mail, SNMP, Network Camera, Webhooks, and LDAP Configuration (selected). The left sidebar contains links for Dashboard, Sensors, Users, Configuration (selected), System, Docs, and Logout. The main content area is titled 'LDAP Configuration' and includes a 'LDAP Server Settings' section with a 'Name' field (API-01), an 'Active' checkbox, an 'Encryption Mode' dropdown (No Encryption), an 'Address' field (192.168.100.1), a 'Port' field (389), and a 'Base DN' field (dc=yourcompany,dc=com). Below these fields is an 'Authentication' section with a 'Bind DN (LDAP Administrator)' field (cn=admin,dc=yourcompany,dc=com), a 'Password' field, and a 'System Permissions' section with a 'Viewer Only' checkbox and an 'Administrator' checkbox. A 'User active' checkbox is at the bottom.

KENTIX
Innovative Security

Kentix SmartXcan

Dashboard
Sensors
Users
Configuration
System
Docs
Logout

General Network AlarmManager Communication E-Mail SNMP Network Camera Webhooks LDAP Configuration

LDAP Configuration

LDAP Server Settings

Active

Encryption Mode
No Encryption

Address
192.168.100.1

Port
389

Base DN
dc=yourcompany,dc=com

Authentication

Bind DN (LDAP Administrator)
cn=admin,dc=yourcompany,dc=com

Password
password

System Permissions

Viewer Only
cn=vieweronly,dc=yourcompany,dc=com

Administrator
cn=superadmin,dc=yourcompany,dc=com

User active

Username
ldapAccountName

2020.06.17 10:46
Copyright © 2020 KENTIX GmbH. All rights reserved. kentix.com

Figure 54: Configuration LDAP Tab

Configuration - Automatic Backup

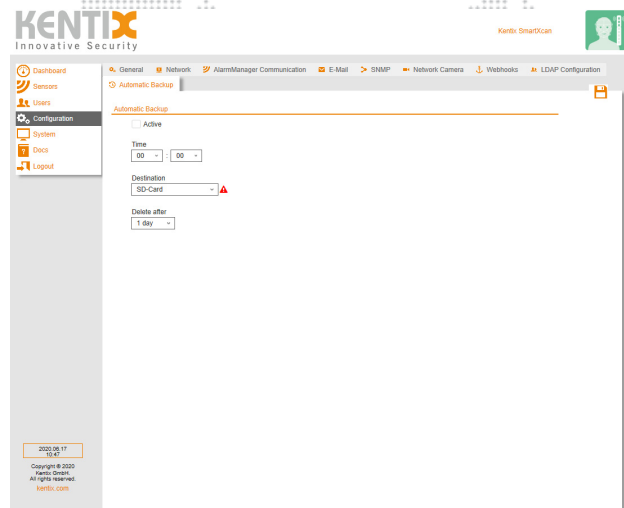


Figure 55: Configuration Automatic Backup Tab

System Page

System - Logbook

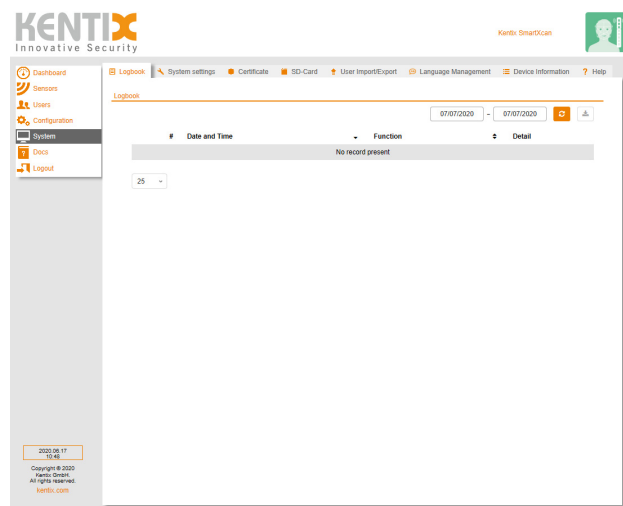


Figure 56: System Logbook Tab

System - System Settings

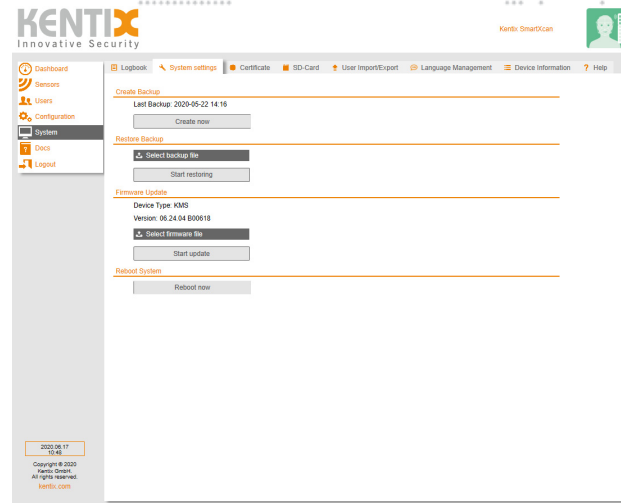


Figure 57: System Settings Tab

System - Certificate

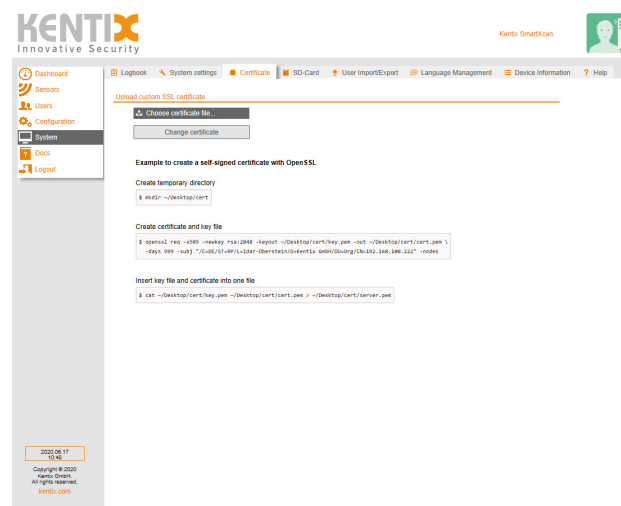


Figure 58: System Certificate Tab

System - SD Card

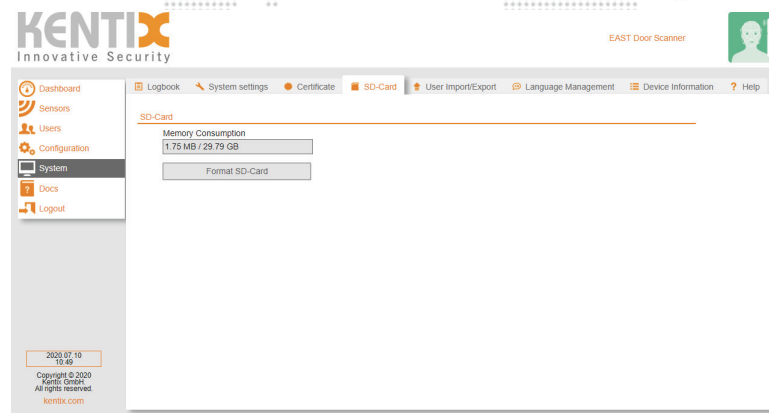


Figure 59: System SD Card Tab

System - User Import/Export

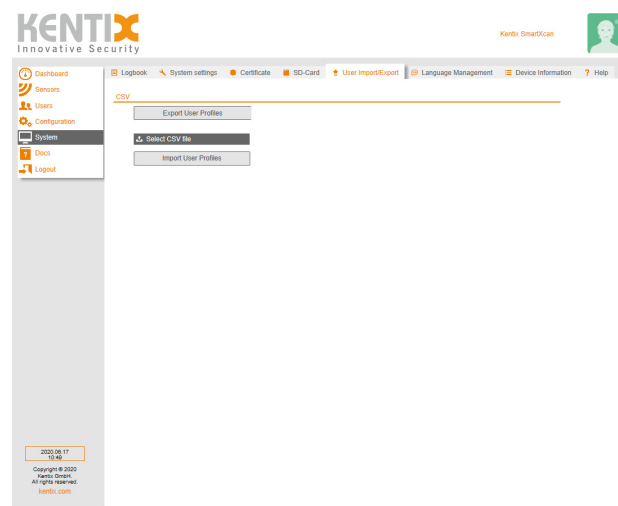


Figure 60: System User Import/Export Tab

System - Language Management

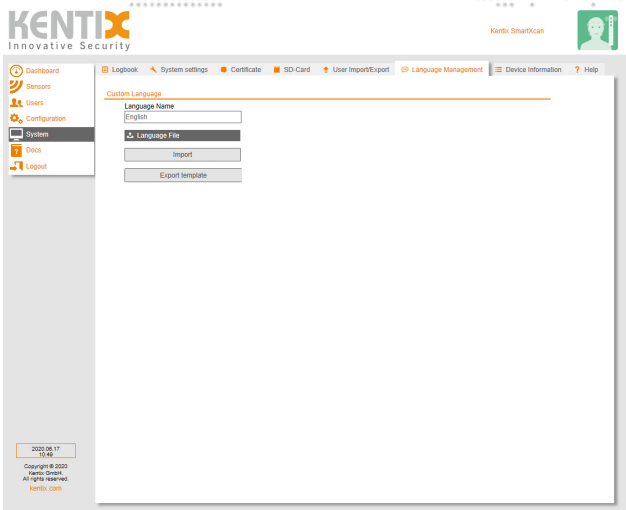


Figure 61: System Language Management Tab

System - Device Information

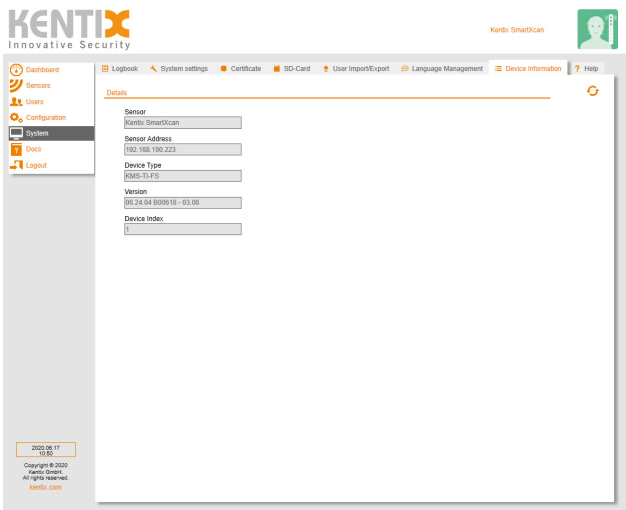


Figure 62: System Device Information Tab

System - Help

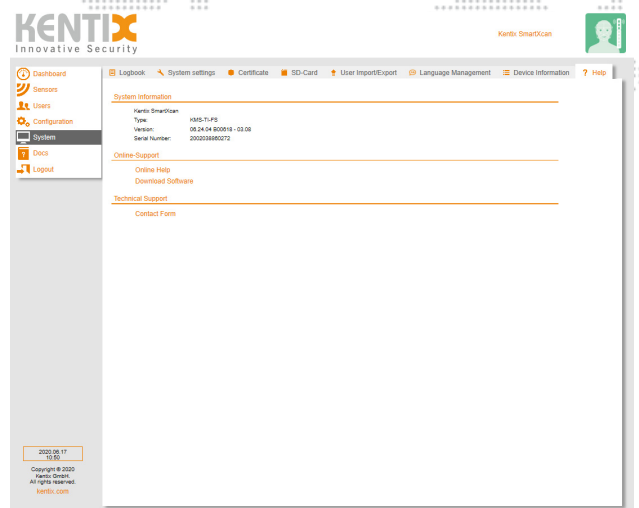


Figure 63: System Help Tab

Docs

The Docs page provides links to Kentix documentation.

PRG produced documentation can always be found at prg.pub/SmartXcan

FIRMWARE UPDATE

Updating SmartXcan Firmware

Use the following instructions to update the SmartXcan firmware

- Step 1. Download the most recent firmware version at <http://prg.software/SmartXcan>
- Step 2. Once downloaded, ensure the folder was unzipped.
- Step 3. Connect a computer to the SmartXcan via an ethernet cable.
- Step 4. Ensure the computer is on the same Subnet as the SmartXcan. If the SmartXcan is using it's default IP address, you can set the computer IP to 192.168.100.101 and Subnet Mask of 255.255.255.0.
- Step 5. Disable any other network interfaces such as Wifi. Disable any firewalls or other security that could hinder network communication.
- Step 6. Open a web browser of choice. Typing the IP address of the device. By default, the IP address is 192.168.100.223
- Step 7. Access the software with the following credentials. User: admin Password: password
- Step 8. Navigate to the System page and the System Settings tab.
- Step 9. Create a backup by clicking on the “Create Now” button under the Create Backup Section.
- Step 10. Press the “Select firmware file” button to select the desired firmware version from the computer.
- Step 11. Press the “Start Update” button once the firmware version is selected
- Step 12. The download can take up to five minutes. DO NOT POWER DOWN unit during download.
- Step 13. Once complete, the firmware version should match the new version.
- Step 14. It is recommended to Reboot the SmartXcan device to ensure the software and all previous settings remain.

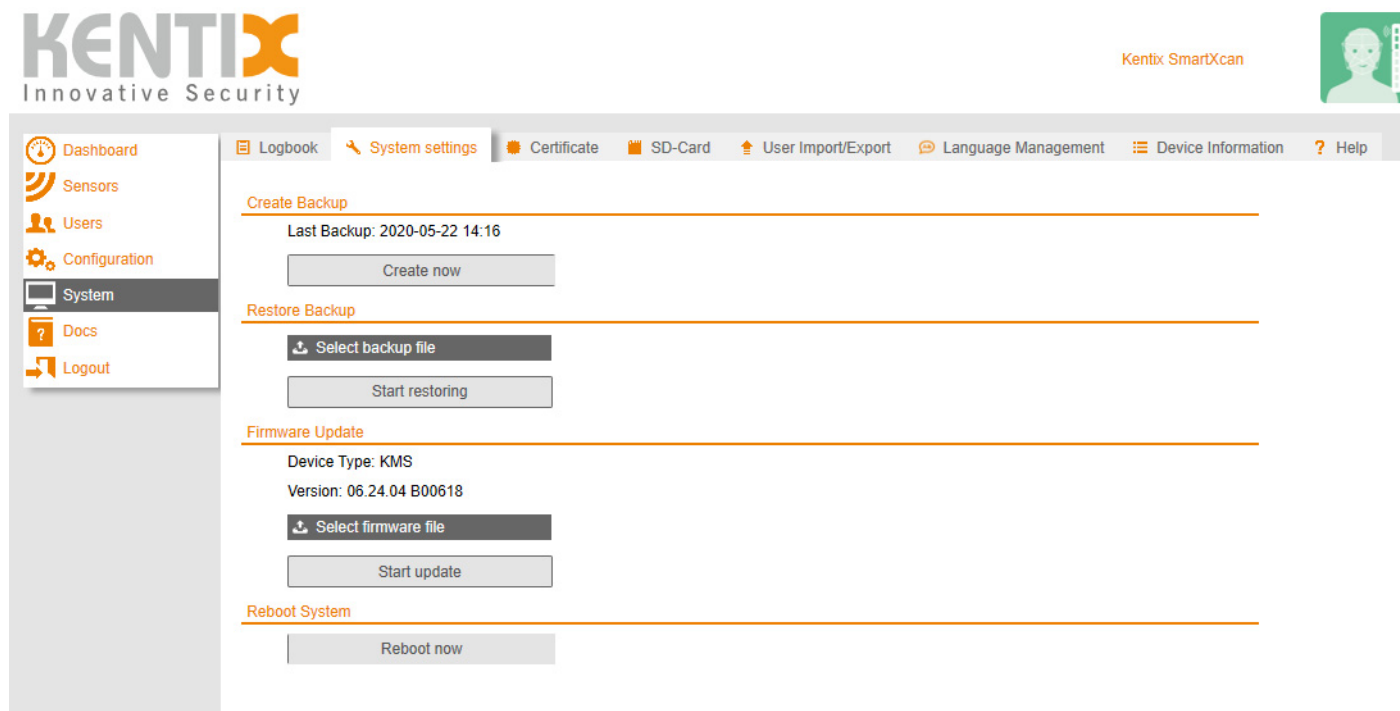


Figure 64: Firmware Update Window

TROUBLESHOOTING

Troubleshooting Guide

The following table provides a list of common problems and possible solutions.

Symptom	Solution(s)	Refer to...
No power to SmartXcan device	Ensure power cable is properly connected to IEC input connector	page 19
	Ensure power is switched on at source (mains, disconnect box, etc.)	n/a
	Ensure power on/off switch is ON	page 19
	Ensure battery is charged (if using a battery)	page 23
LED is flashing red	Ensure ambient environmental conditions are within limits.	page 26
	Ensure warm-up time of 30 minutes has past since device was powered on.	page 37
	Set Warmup Behavior to “Allow Measurements”	page 37
Measurement Testing Not Functioning	Ensure ambient environmental conditions are within limits.	page 26
	Ensure warm-up time of 30 minutes has past since device was powered on	page 37
	Ensure test subject has not been in a cold environment prior to test.	page 25
	Ensure test subject is within the tolerance distance for proper measurement	page 48
	Ensure nothing is blocking the subject's forehead such as hair, glasses, sweat, etc.	page 48
Cannot Connect to SmartXcan Web Interface	Power cycle the SmartXcan Mobile Pedestal	n/a
	Device is on a DHCP network and received an IP address. Disconnect from network and reset the SmartXcan to factory defaults.	page 64
	Computer IP settings incorrect. Ping the SmartXcan IP address to ensure connectivity.	page 30
	Disable Firewall	n/a
	Disable WiFi and any other network connections of the computer.	n/a
	Reset Device to Factory Default	page 64

Reset Device to Factory Default

- Step 1. Remove the Temperature Scanner from the Mobile Pedestal
- Step 2. Power cycle the device
- Step 3. As soon as the internal status LED is active (green), press the RESET button on the back of the device (See **Figure 65**). Keep the button pressed for 15 seconds until an acoustic feedback is heard
- Step 4. The device is now reset to factory settings will power cycle
- Step 5. After approx. 60 seconds the device can be reached via the default settings

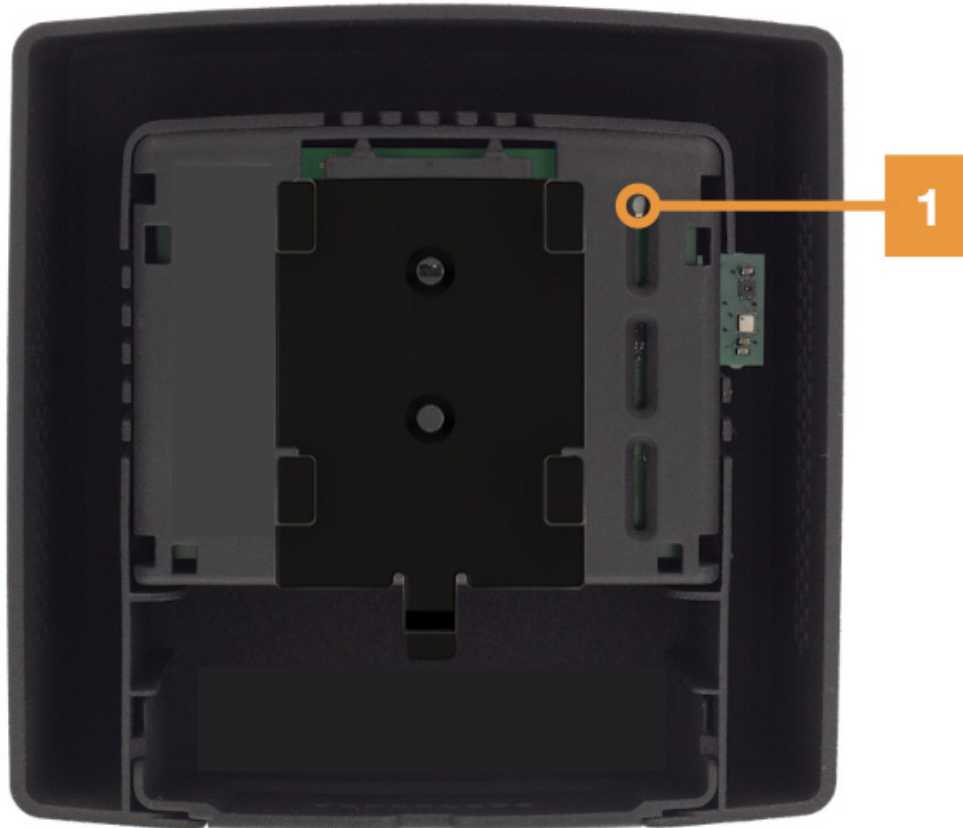


Figure 65: Temperature Scanner Rear View

Load Factory Default Configuration

The PRG Factory Default configuration for the SmartXcan can be found at http://prg.software/SmartXcan_Config. See "Updating SmartXcan Firmware" on page 62 for information on the upload process.

MAINTENANCE

Cleaning

Special care should be taken when cleaning the SmartXcan scanning device.

Note: Do not use any harsh chemicals near the probe device.

To clean the SmartXcan body and mobile pedestal use a non-abrasive disinfectant such as a 10:1 Bleach Mixture or other disinfectant wipe. Use extra care to not soak the temperature probe.

To clean the SmartXcan probe, use electronics-safe and oil-free Compressed Air. Do not stick any object into the probe. A dry or lightly-damped microfiber cleaning cloth can also be used to clean the probes/lenses.

Calibration

The SmartXcan is calibrated on an annual basis. A calibration sticker should be found inside the battery compartment of the mobile pedestal or the back of the SmartXcan device. If the calibration sticker is missing or damaged, contact your PRG representative so the calibration date can be reviewed.

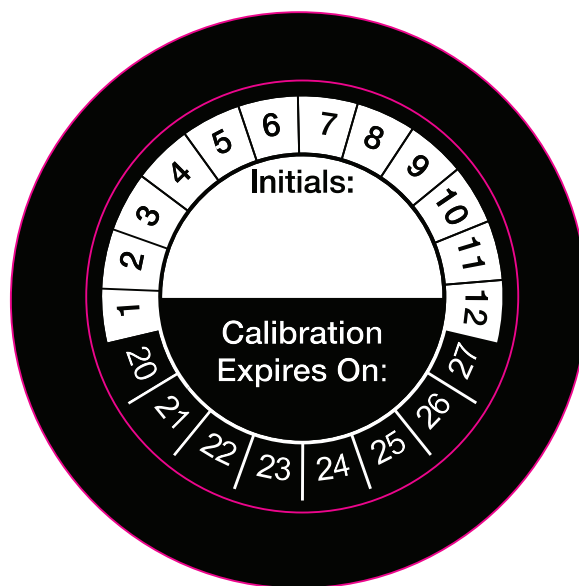


Figure 66: Temperature Probe Calibration Sticker

Calibration is not recommended outside of a PRG or Kentix facility. If required, the following are recommended infrared calibrators: Fluke Calibration Precision Infrared Calibrators Type: 4180/4181.



Packing Equipment Into Roadcase

Roadcase design pending. Contact SmartXcanSupport@prg.com with any questions.



Storage

The SmartXcan device should be stored in a cool-dry place, especially prior to use. For long-term storage ensure the battery is removed.

Transportation Storage

If the SmartXcan device is transported in extreme temperatures, the unit should sit in an acceptable environment for 4-24 hours, depending the severity. The unit's temperature should be approximately the same as the surrounding area.

Battery Transportation

To ship the SmartXcan unit with batteries, you must comply with all local and international regulations regarding shipping lithium-ion batteries. Contact SmartXcanSupport@prg.com with additional UN# information.

Shape Battery Documentation can be found at prg.pub/SmartXcan_BatteryData

It is recommended to remove any batteries from the Mobile Pedestal before shipment.

SPECIFICATIONS

Technical Specifications

SmartXcan Mobile Pedestal

- + Mains : 100-240V $\pm 10\%$, 50/60 Hz, 0.5A Max
- + PoE : 37- 44VDC, 0.35A PoE Type 1
- + Battery ; 14.8VDC, 1.0A
- + Operating Ranges: 18°C to 24°C, 10-75% non-condensing humidity
- + IEC 60320 C14 Power-In
- + Battery or PoE optional
- + Two Neutrik® etherCON ports
- + On/Off Switch
- + Infrared thermal array thermal sensor
- + Laser IEC 60825-1:2014-3, Class 1 distance sensor
- + Scan distance of 4-12in (10-30cm)
- + Scan Time, Throughput: 0.6 second scan time (5 seconds for approach, scan, departure)
- + 700 temperature measurements per hour
- + Mobile pedestal, turnstile access
- + lack powdered coated aluminum (others upon request)
- + Integrated buzzer and LED indicator
- + Web Interface Configuration Software
- + Room temperature sensor: Measuring range 0 to 85 °C (accuracy ± 0.5 °C)
- + Air humidity sensor: Measuring range 0 to 100 % (accuracy ± 3 %)
- + Infrared sensor: Measuring range 0-100 °C, repeatability ± 0.3 °C, resolution 0.1 °C, emission factor 0.98, ambient temperature 18 - 28 °C
- + External connections
- + REST API supporting plain text, JSON, or XML content types via POST or GET methods
- + Monitoring, notifications, and alerts via SNMP and SMTP
- + Integrated webserver with onboard management and configuration
- + Integration with Kentix AlarmPro software
- + Maximum Altitude: Normal 2000m
- + Overvoltage Category: Normal II
- + Pollution Degree: Normal 2
- + IP30
- + 55.75" H x 18" W x 19.4" L (1416mm x 457mm x 492mm)
- + Weight: 69lbs. (31.3kg)
- + ETL/CE Certified

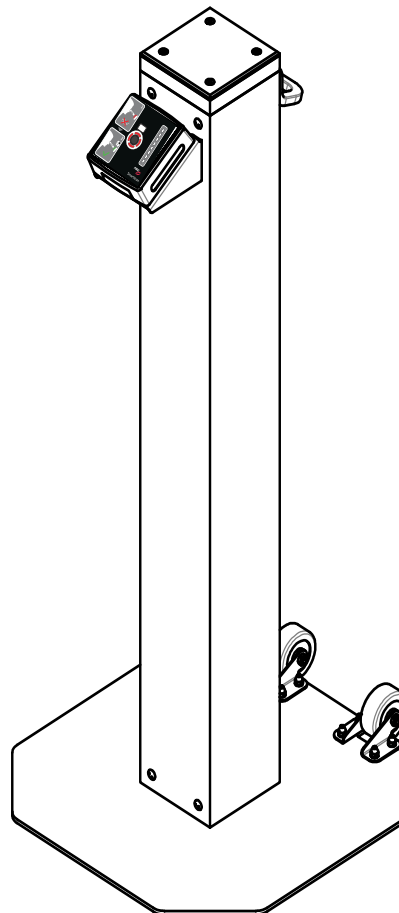


Figure 67: PRG SmartXcan Mobile Pedestal

Battery, 98Wh

SHAPE FULL PLAY 14.8 V 98 WH RECHARGEABLE LITHIUM-ION V-MOUNT BATTERY

Rated Battery Life (hours)

- + Scanner only: 50 hours
- + Scanner & Indicator Light: 33 hours (700 scans per hour)
- + Scanner & Indicator Light: 48 hours (average of 50 scans per hour)

Estimated Battery Lifetime: 3.3 years (continuous use)

Transport: Safe for air travel (IATA approved)

Battery, 270Wh

SHAPE FULL PLAY 14.8 V 270 WH RECHARGEABLE LITHIUM-ION V-MOUNT BATTERY

Rated Battery Life (hours):

- Scanner only: 156.7 hours
- Scanner & indicator light: 111.7 hours (700 scans per hour)
- Scanner & indicator light: 152.4 hours (average of 50 scans per hour)

Estimated Battery Lifetime: 3.3 years (continuous use)

Transport: NOT Safe for air travel

Shape Battery Charger

Dual Charger: Shape Full Play 2PWC - Compatible with 98Wh Batteries

Power Requirements: Input 92-242VAC, 47-63Hz, 3.8A



Quad Charger: Shape Full Play 4CHA - Compatible with 98Wh Batteries

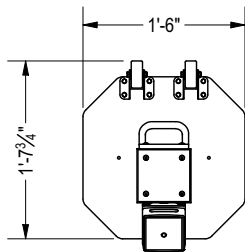
Power Requirements: Input 92-242VAC, 47-63Hz, 3.8A



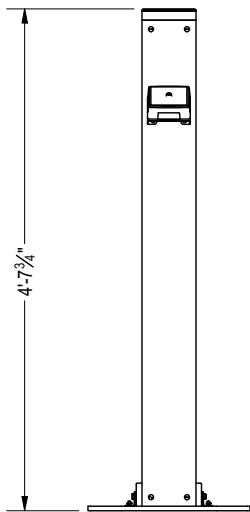
Dimensions and Weights

PRG SmartXcan Mobile Pedestal

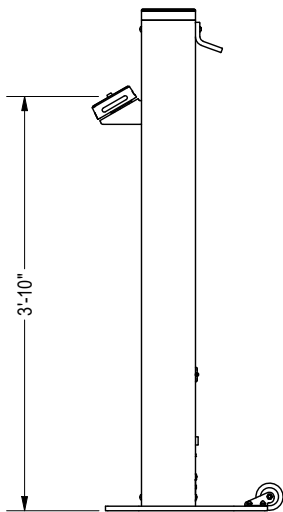
WEIGHT: 69 lbs (31.3 kg)



TOP



FRONT



RIGHT

Figure 68: SmartXcan Dimension Detail

PRG SmartXcan - Mobile Pedestal Single Case

2'-0" L x 2'-0" W x 5'-6 1/2" H

LOADED WEIGHT: 203 lbs (92.08 kg)

EMPTY WEIGHT: 134lbs (60.78 kg)

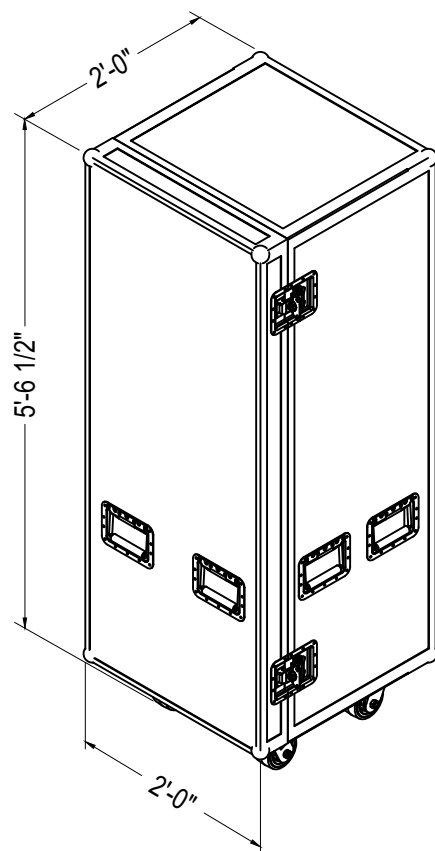


Figure 69: PRG SmartXcan Mobile Pedestal Single Roadcase Dimensions

PRG SmartXcan - Mobile Pedestal DUO Case

3'-9" L x 2'-0" W x 5'-6 1/2" H

LOADED WEIGHT: 348 lbs (140.16 kg)

EMPTY WEIGHT: 210 lbs (95.25 kg)

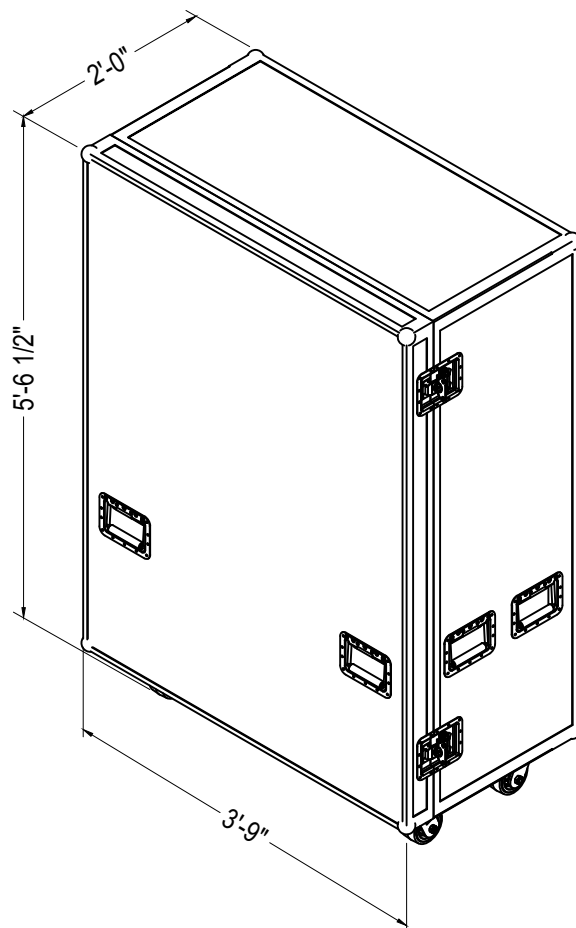


Figure 70: PRG SmartXcan Mobile Pedestal DUO Roadcase Dimensions







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