



Thermal Camera
Temperature Screening Kiosk
Model: **PDI-TK8**

	MODEL: PDI-TK8 Temperature Scanner	Document Number: PD196-416R1
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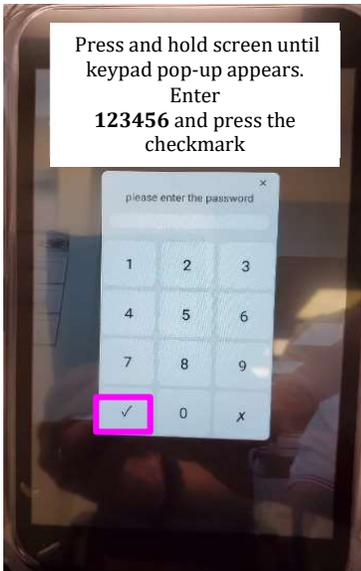
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CONNECTING THE UNIT TO YOUR NETWORK

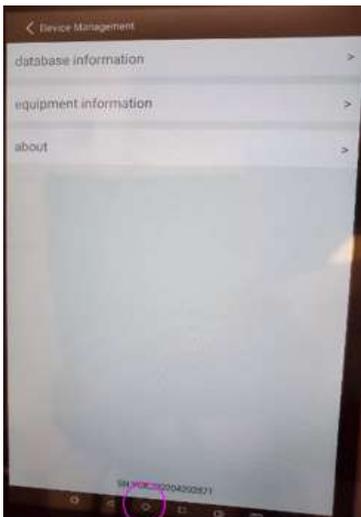


Connect the 10-position phoenix connector to the back of the PDI-TK8 unit (**Note:** the red power and black ground wires are on the left side of the unit as you're looking at the back of the unit). Next, plug the unit into the wall receptacle for power.



When the unit boots it will automatically start the application.

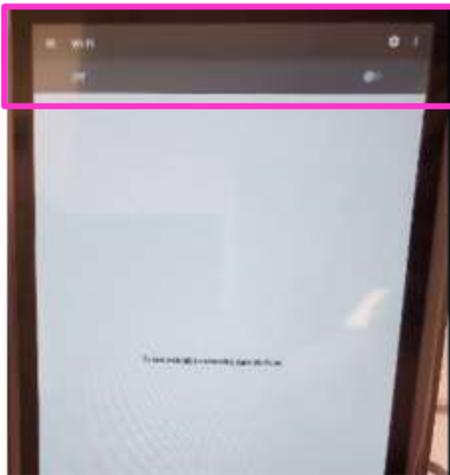
You must exit from the application to configure the unit on your network. Do this by pressing on the touchscreen until you see the pop-up keypad. Enter the default password, **123456** and press the checkmark.



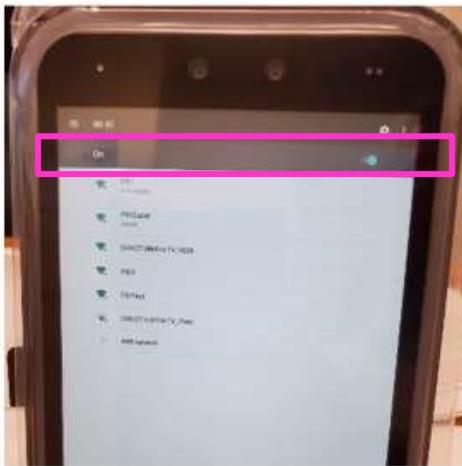
Then press the **Show Desktop** icon at the bottom of the tablet screen.



Select the **Settings** icon in the lower left corner of the display to show the Android system menu.



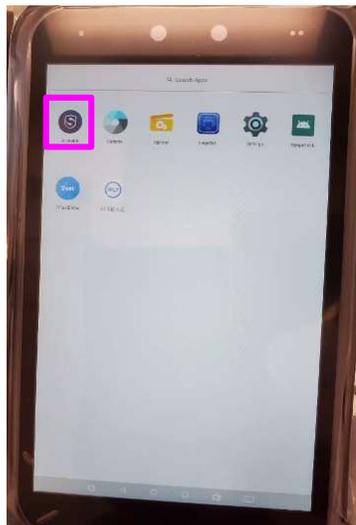
If WiFi is not enabled turn it on by sliding the button to the right.



Connect to a wireless network of your choice and note the IP address.



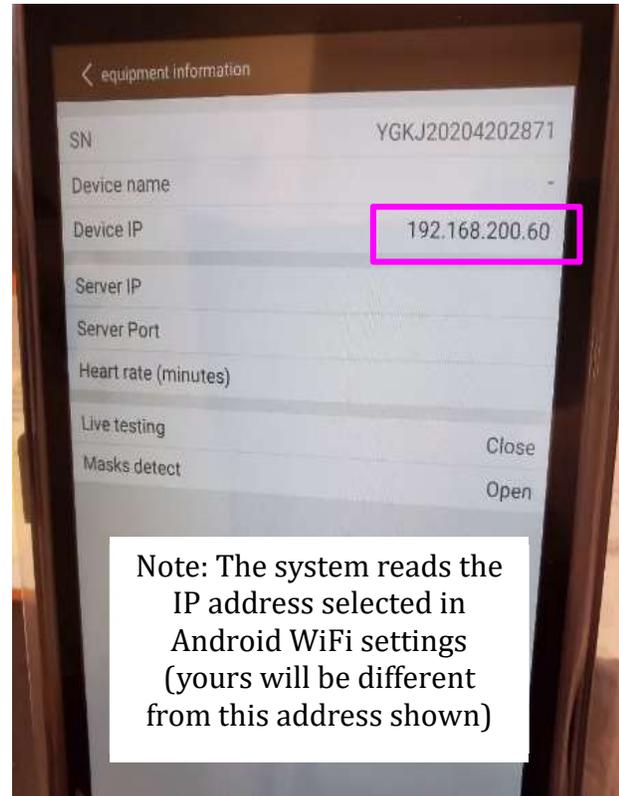
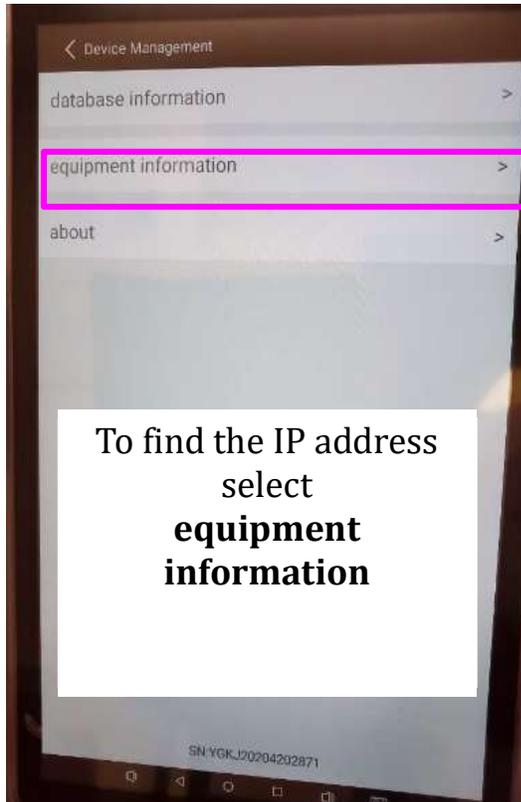
Return to the desktop screen and swipe up to display the apps page.



Select the app named BIOMATRIX.

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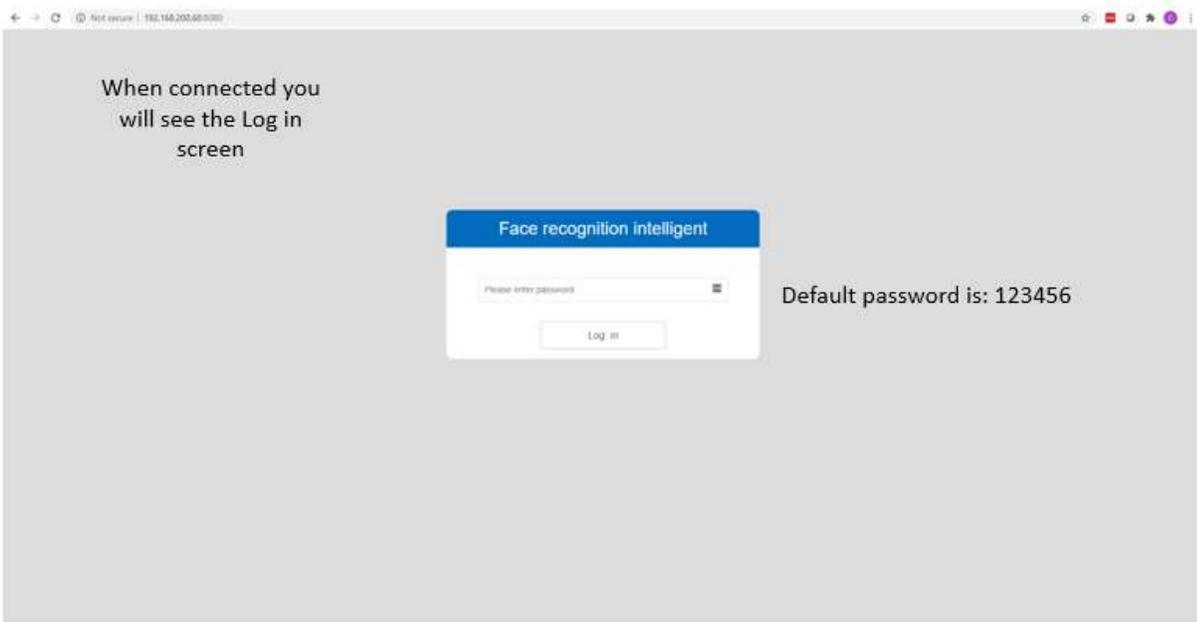
To display the IP Address to enter in your network PC browser, go to Device Management on the tablet. Select Equipment Information.



Now that you know the IP address enter it into your internet browsers address line on your network PC. Make certain to include the port :8080 in the string. In this case enter **http://192.168.200.60:8080**

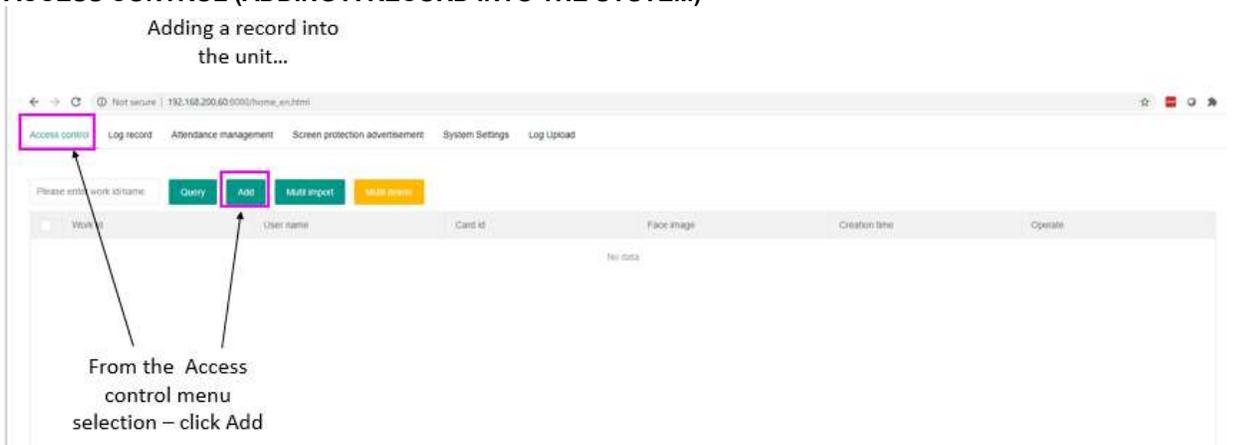


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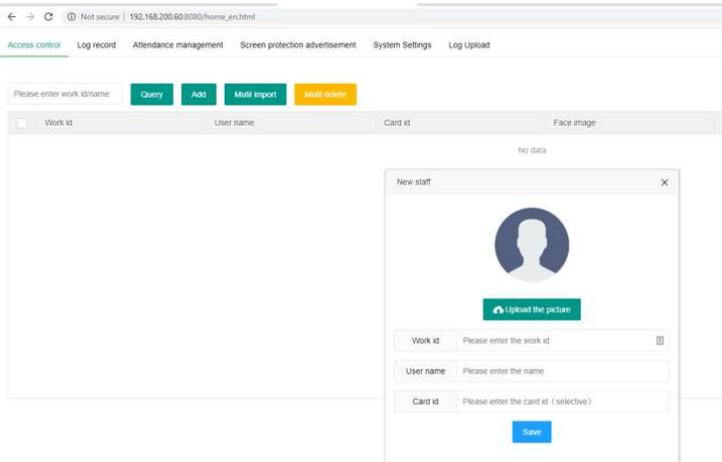
Congratulations! You have now connected to the device to your PC.

ACCESS CONTROL (ADDING A RECORD INTO THE SYSTEM)



From your PC, log into the system using default password **123456**.

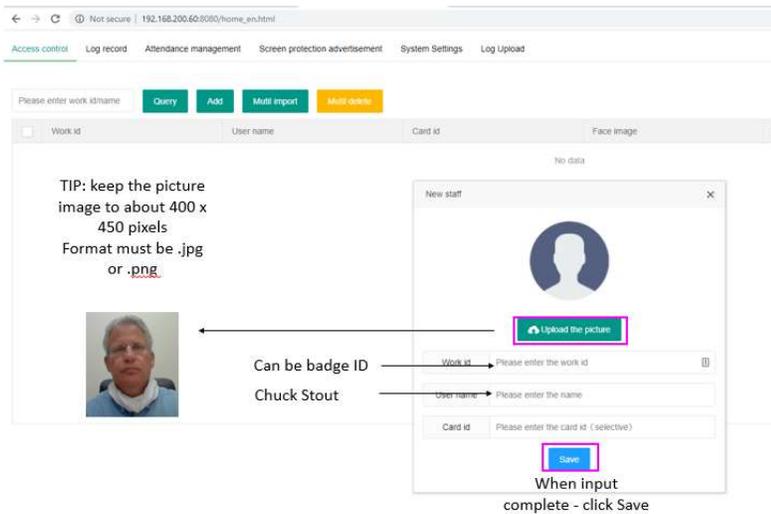
From the Access Control menu, click Add. When you click on **Add**, a record pop-up appears as shown next.



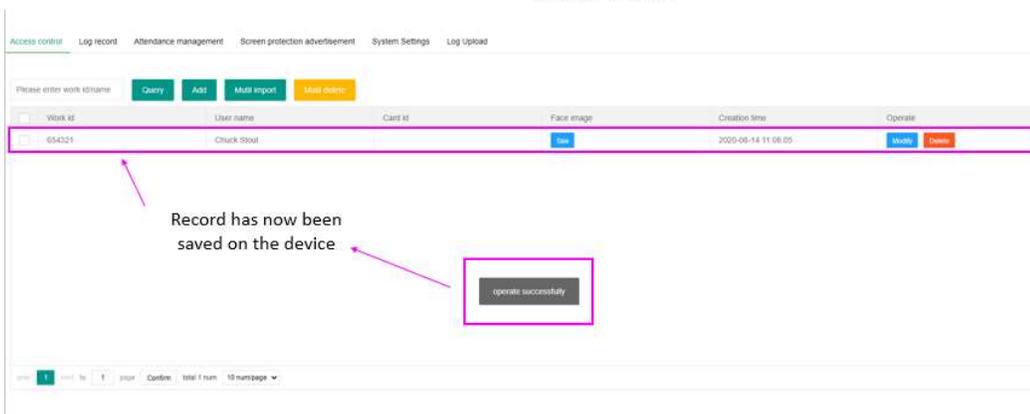
Click on the button to **Upload the picture** and navigate to where the image picture is located. The format of the picture can be either .jpg or .png but must be about 400 x 450 pixels.

If you receive a **face detect error**, please resize the image.

If an error message displays **please specify the file** – it means that the software is not recognizing the file type. Try reopening and resaving the image as a .jpg or .png file type.



Then enter, if desired, the badge ID and the name. Note: including the name will allow the system to display the name when the temperature is displayed. Click **Save** to complete the record entry.



If all data is valid the system reports **operate successfully**, and the record is added.

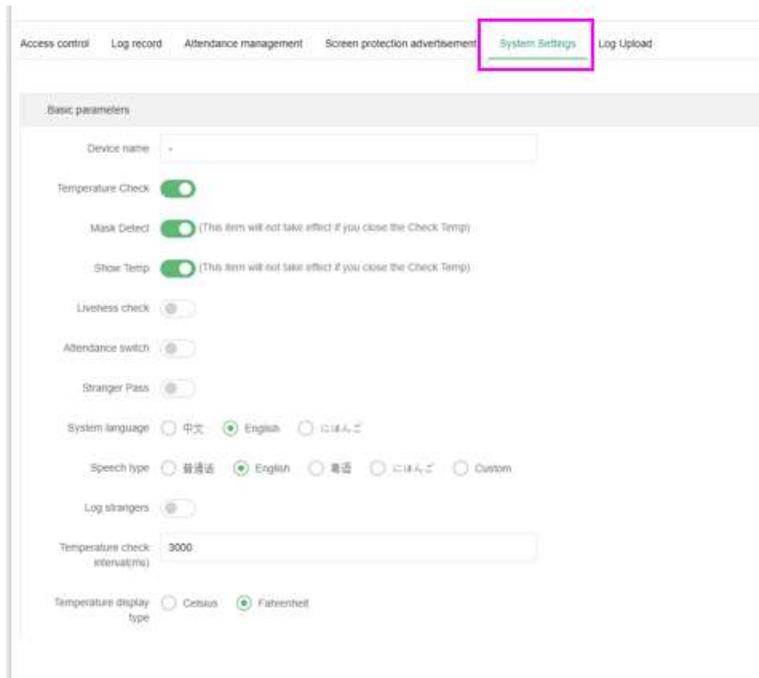
You can now continue to add records to the system. The capacity for record storage is up to 10,000 faces.

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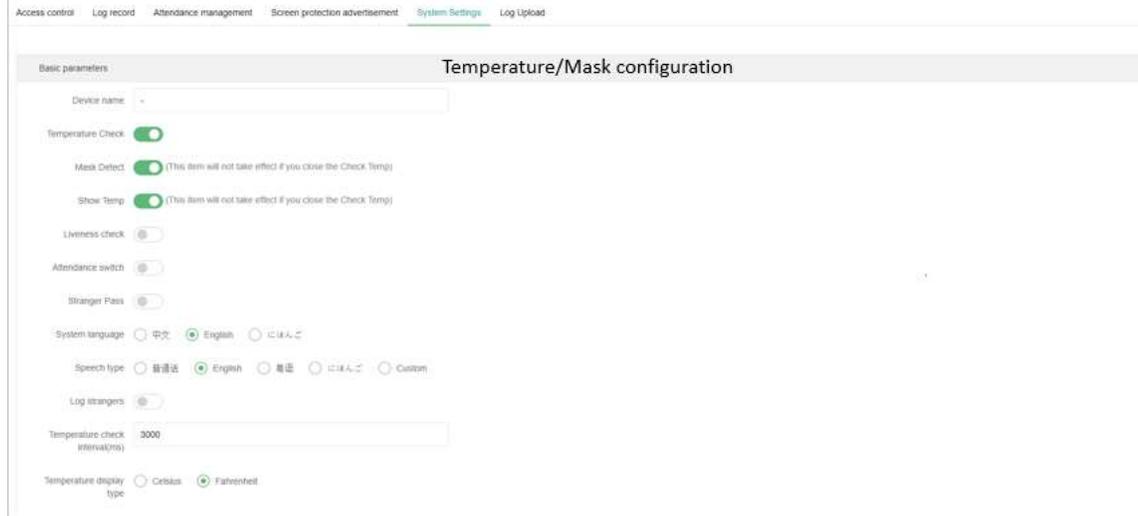
SYSTEM SETTINGS

This menu selection controls features of the device related to:

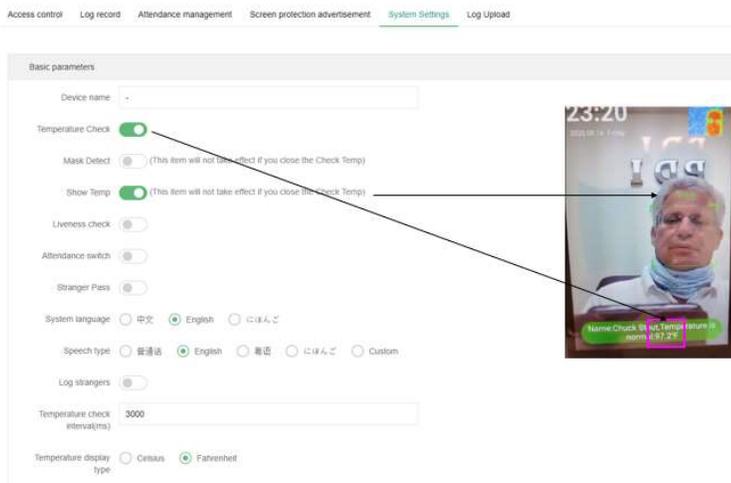
- Information that is displayed on the device,
- Whether the device can use photo images or the live camera for face detect comparison,
- How the system can be used to track clock-in/clock-out functionality (attendance check),
- Whether the system will report and allow access to strangers. A stranger is an image that has not been stored in the database,
- Language settings for the device (both displayed and spoken language),
- Temperature scale (°F / °C),
- Additional settings to
 - Reset the system
 - Reset the software
 - Synchronize time/date
 - Upload new system software (.apk)



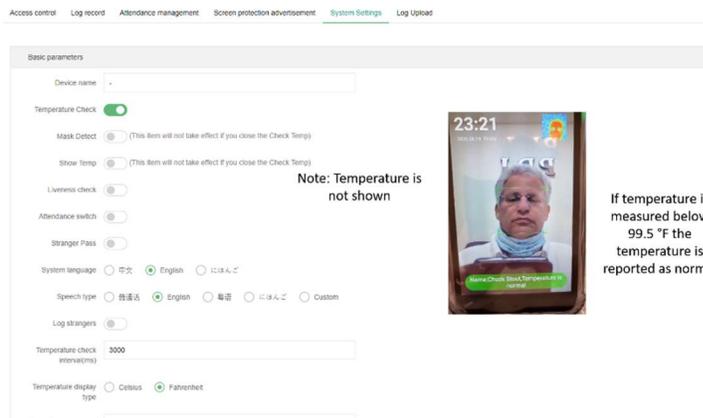
TEMPERATURE/MASK CONFIGURATION



Temperature Check – when *Enabled* will display the temperature. If used with **Show Temp** will also display the measured temperature as part of the text string at the bottom of the display.



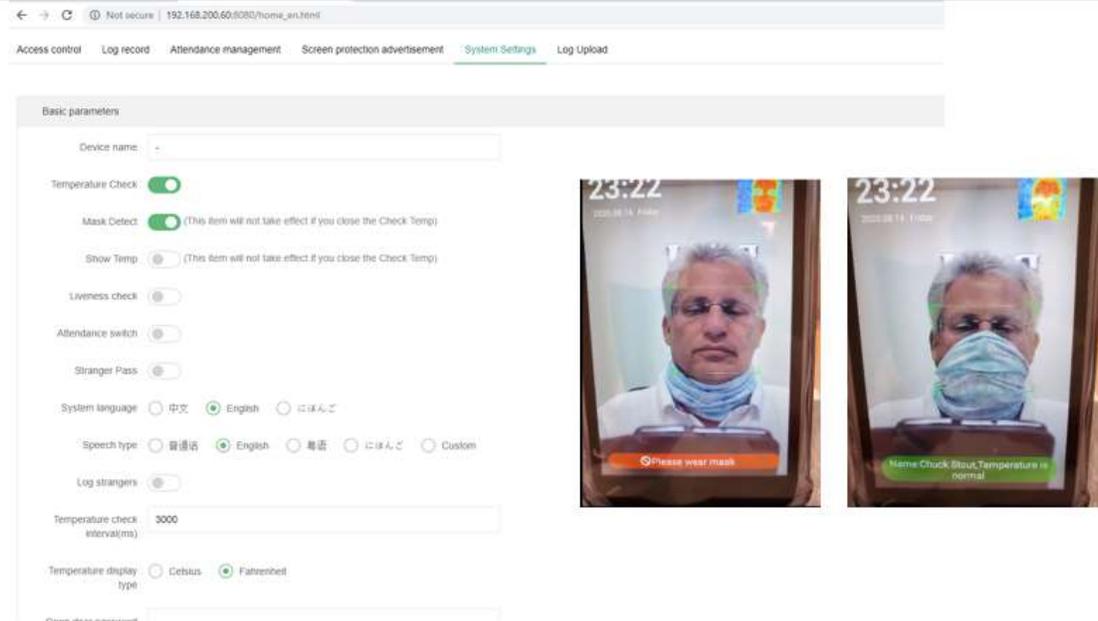
Show Temp Enabled – when enabled will also display the temperature at the bounding rectangle around the subject face.



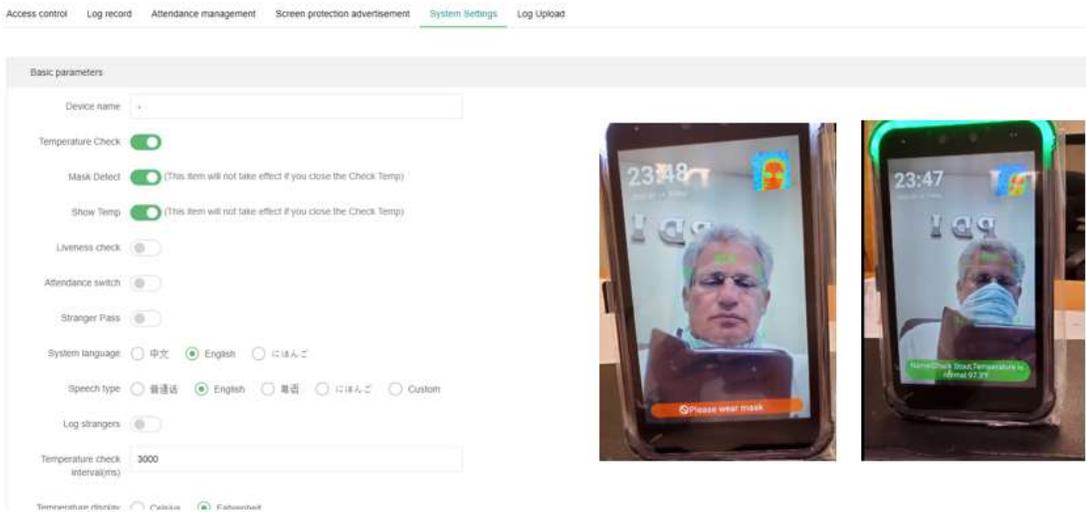
Show Temp Disabled – in this setting note there is no display of the temperature, but the system will still report if the temperature is normal.

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Temperature Check and Mask Detect Enabled. Note if **Mask Detect** is *Enabled* then the system will prompt to 'Please wear mask' with a message at the bottom of the screen and with an audio message. Once the mask is put on the system will report the result.

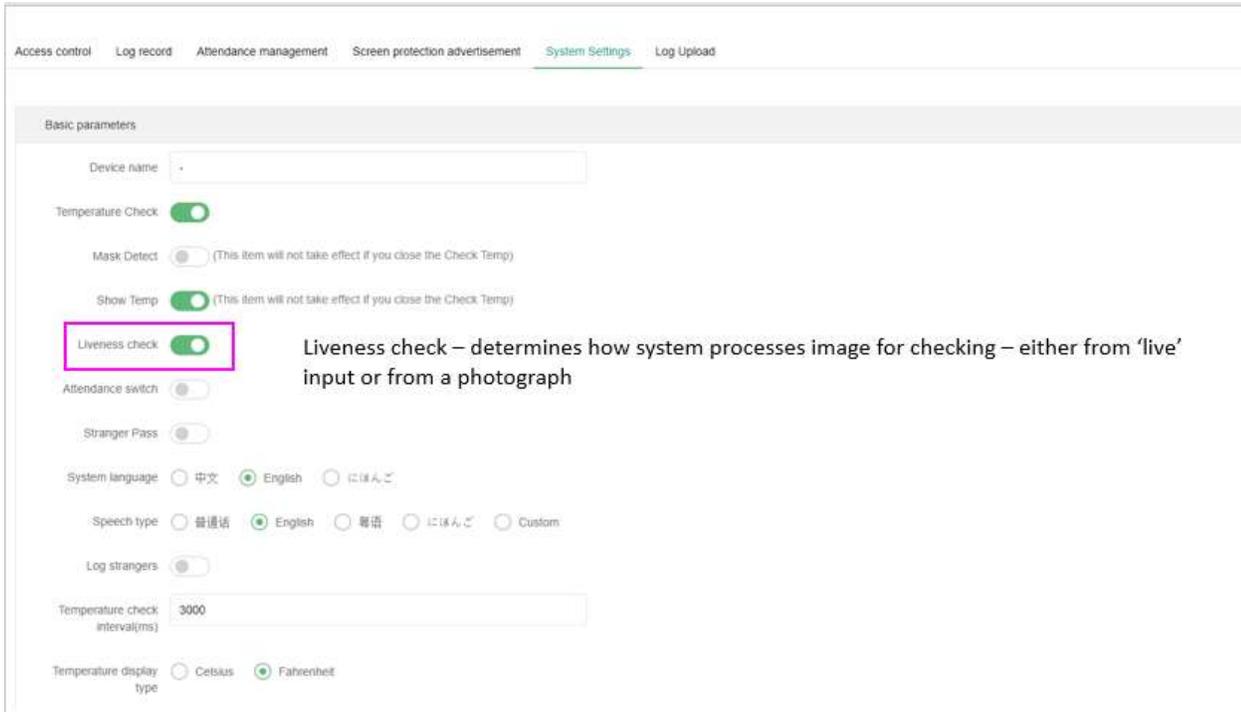


Temperature Check, Mask Detect and Show Temp all Enabled. In this setting the subject must wear a mask and temperatures are displayed.



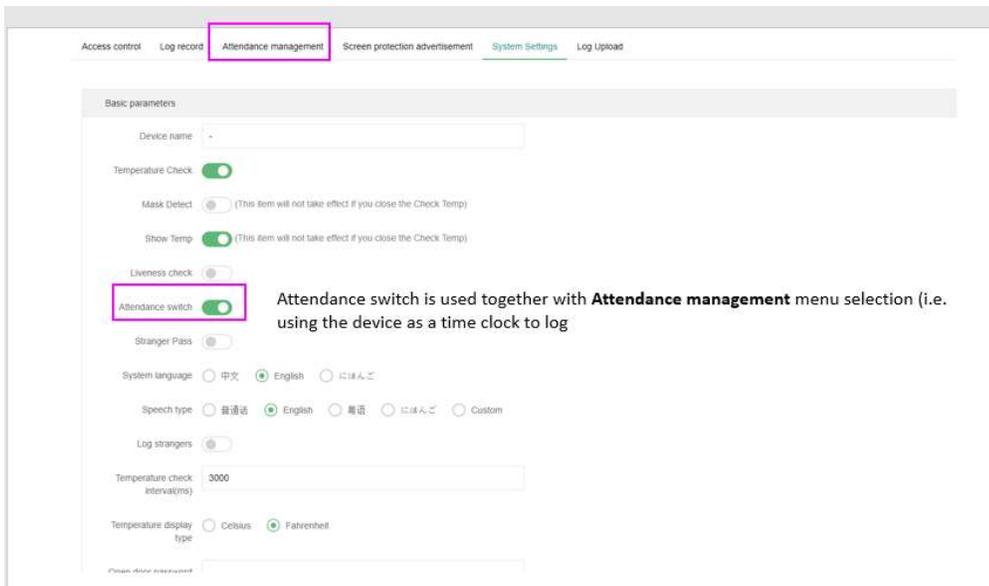
LIVENESS CHECK

Liveness Check determines how the system processes image for checking – either from ‘live’ input or from a photo database.



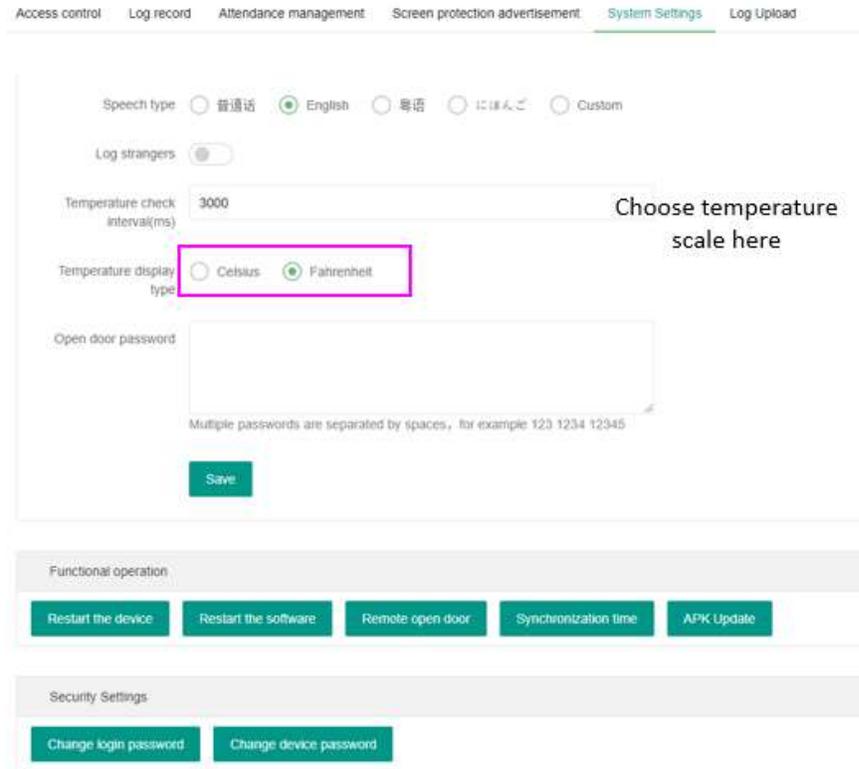
ATTENDANCE MANAGEMENT

Attendance switch – used in conjunction with **Attendance management** menu to log time-in/out functions as a time clock.

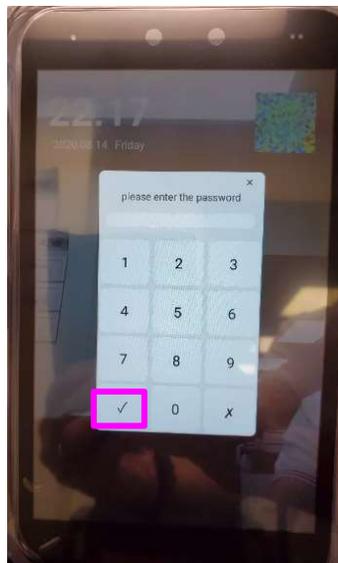


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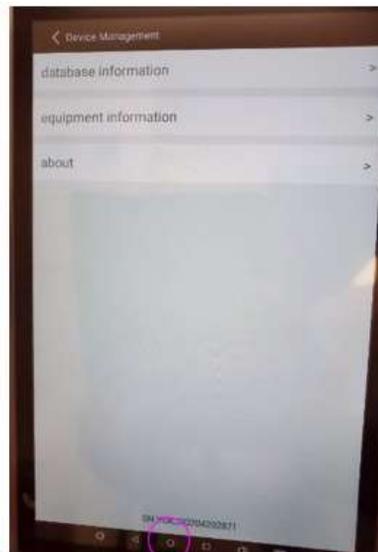
TEMPERATURE SCALE – select either Fahrenheit or Celsius.



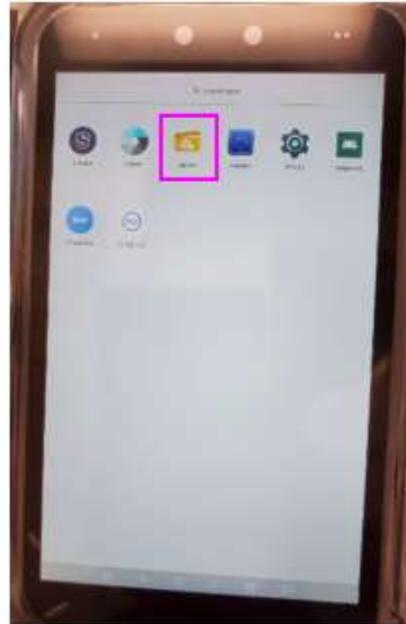
CHANGING THE SYSTEM VOICE – this feature allows the system administrator to change the voice files that are played automatically by the system. Changes need to be made at the file management level to change the voice files as described below. Exit the application and press the desktop icon as shown here.



Press and hold screen until keypad pop-up is displayed.
Enter **123456** and press the checkbox



Once at the desktop swipe up from bottom of display to open the **Search Apps** page and select **Explorer**



The new voice files should be stored on a USB thumb drive.

In this version of the software, the system is looking for the voice files in hard coded .mp3 files with specific text string names. See the mapping in the table below. Your system has been pre-loaded with the voice files shown below in the .mp3 file string column.

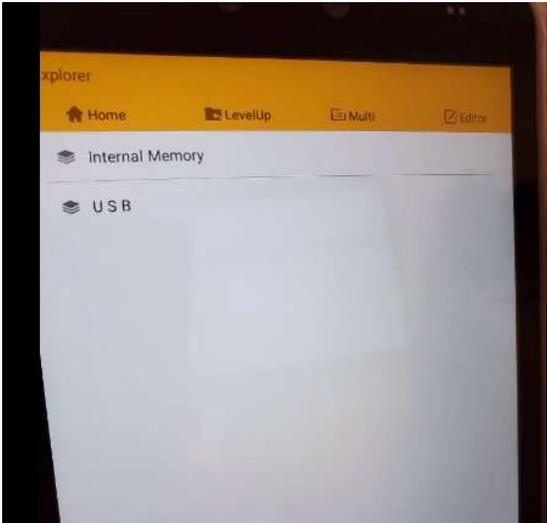
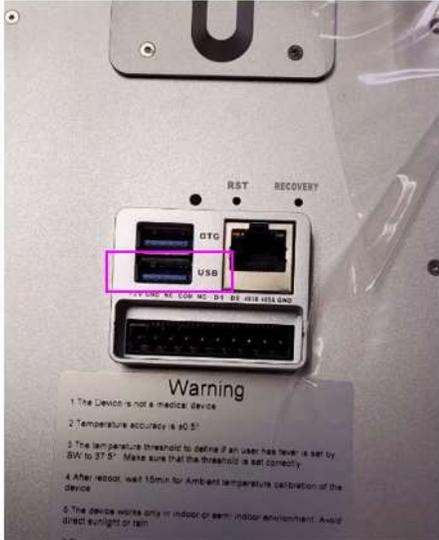
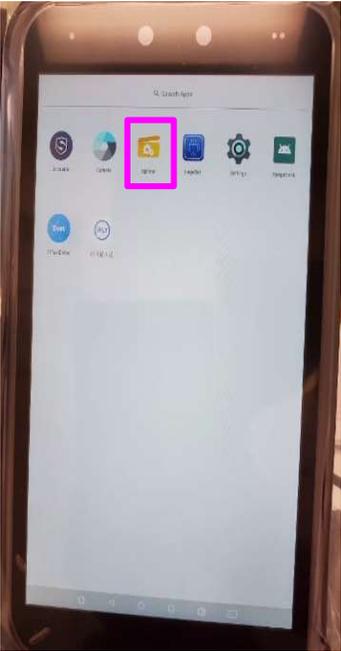
Important Note: If you want to change any of the voice files, make sure to create the .mp3 file and save to the exact text string filename that matches the functionality that you desire. For example: If you want to change "Please come closer to the camera" to a different message, such as "Please come closer" make sure to copy the new .mp3 file to qingkaojin_cus.mp3 to write over the current file.

Save these mp3 files to your USB thumb drive.

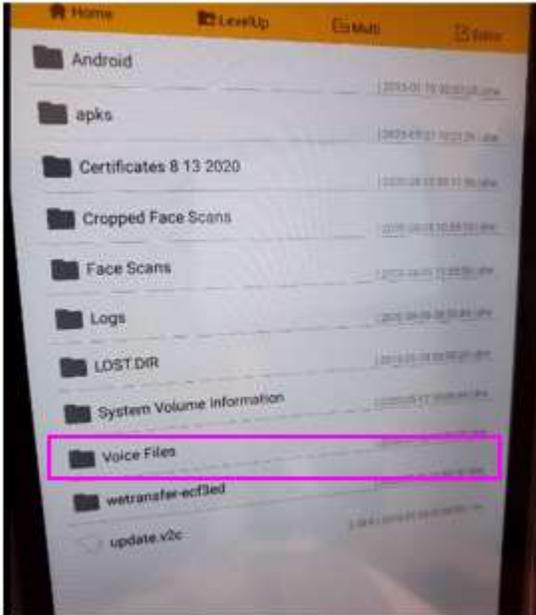
Filename	.mp3 file string
qingchongxincewen_cus.mp3	"Please - take your temperature again"
qingkaojin_cus.mp3	"Please come closer to the camera"
qingpeidaikouzhao_cus.mp3	"Please wear your mask"
qingtongxing_cus.mp3	"Temperature check is complete - please proceed"
tiwenyichang_cus.mp3	"High temperature detected"
tiwenzhengchang_cus.mp3	"Your temperature is normal"

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From the **Explorer** menu on the PDI-TK8 tablet, insert the USB thumb drive into the slot on the back of the unit. **NOTE:** Make sure you plug the drive into USB and not OTG. The USB port is the bottom connector on both the tablet and the stand.

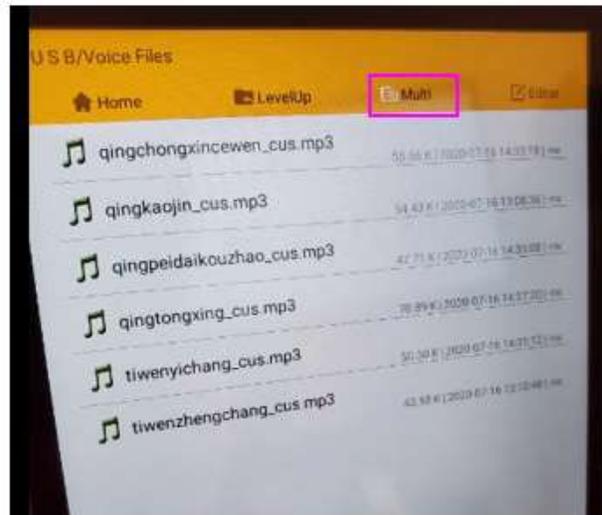
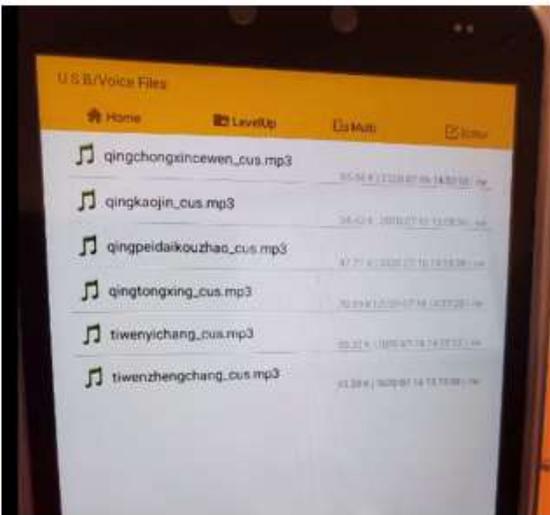


The **Explorer** menu should now display both Internal Memory and USB



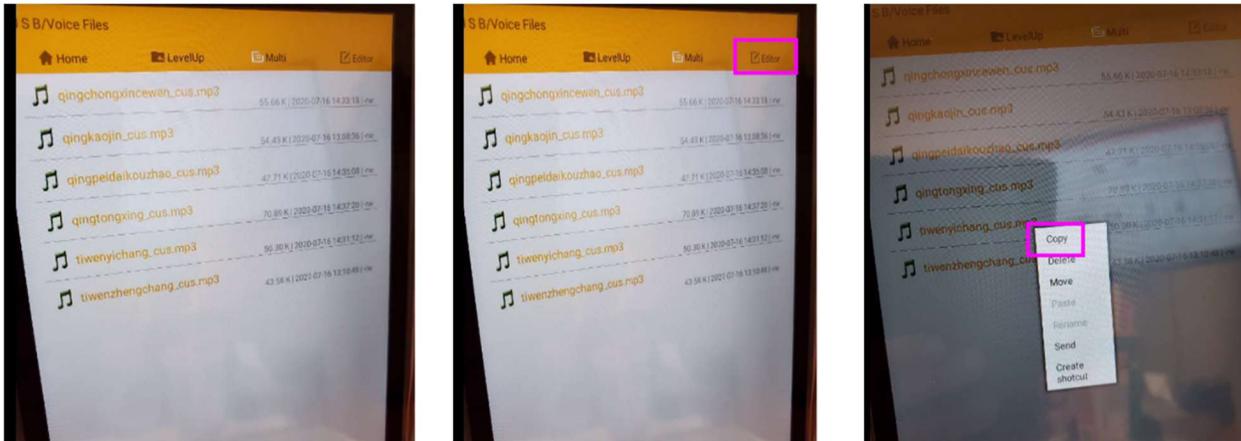
Select the USB option and navigate to the folder Voice Files

You will see your voice mp3 files listed. Use the **Multi** menu item to select multiple files in the list.

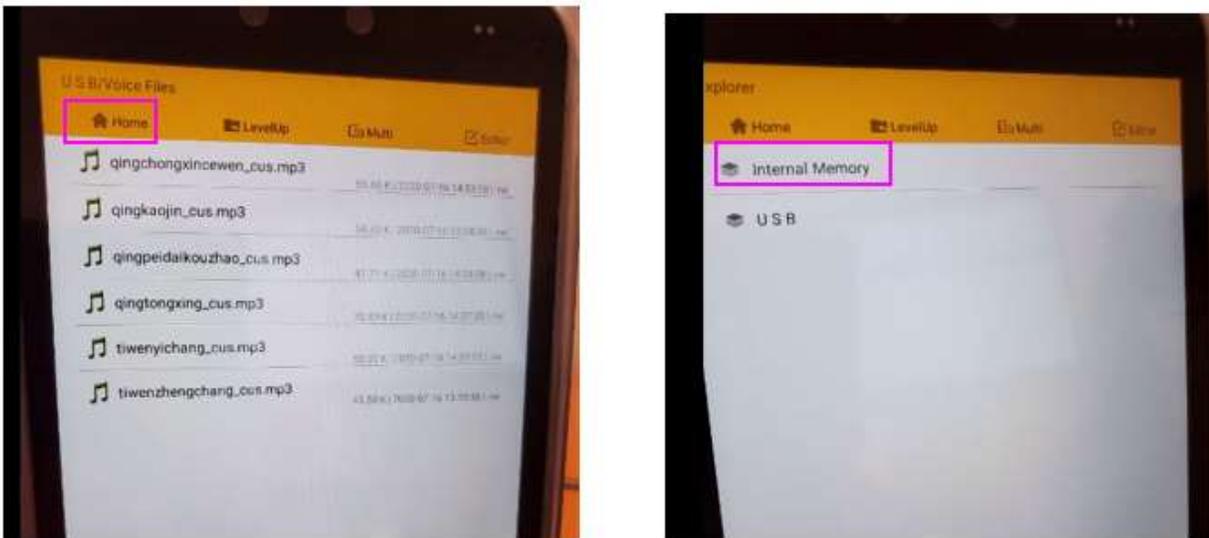


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Note that when selected the text color is gold. When each file has been selected click on the **Editor** menu item and select **Copy**.

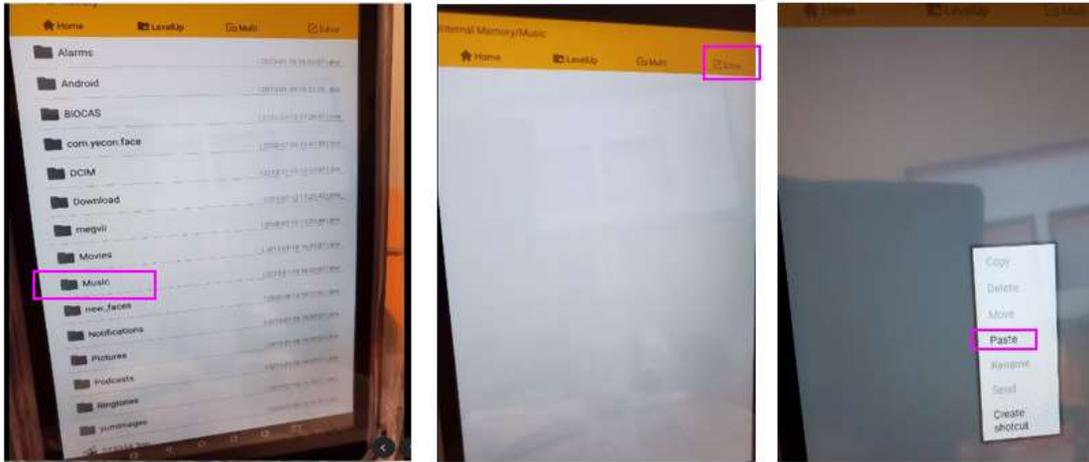


Next, copy these files to the internal memory of the PDI-TK8 device. Select **Home** and then **Internal Memory**

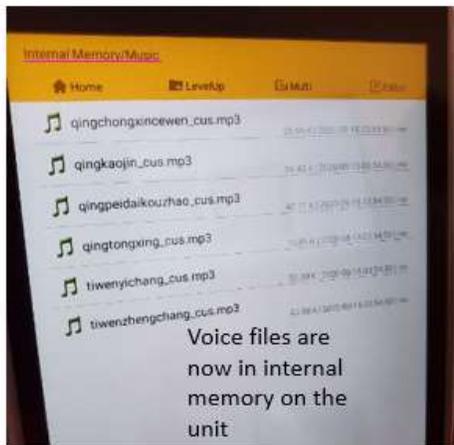
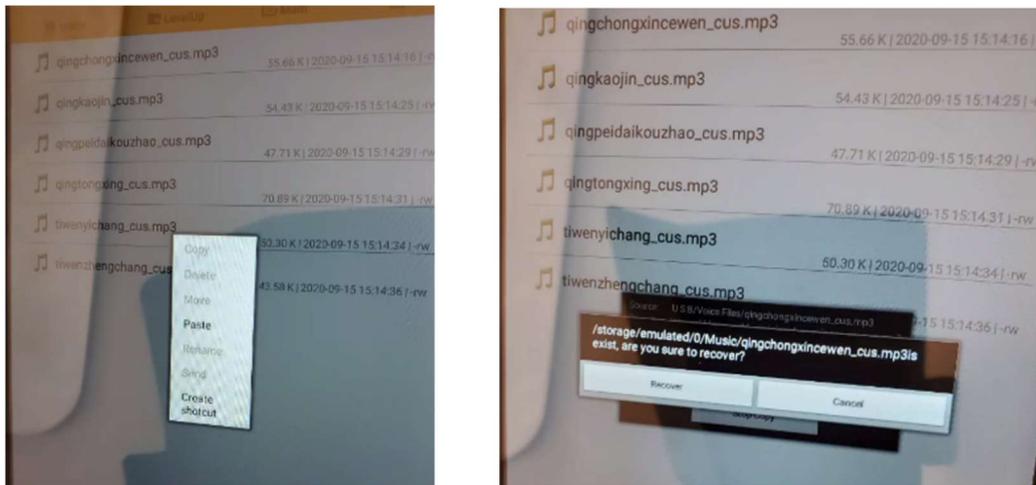


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From Internal Memory navigate to the **Music** folder and select. The window will display the default files. Select **Editor** and then select **Paste**.



At the prompt "(Filename) exist, are you sure to recover?" Select RECOVER for each file in the list.

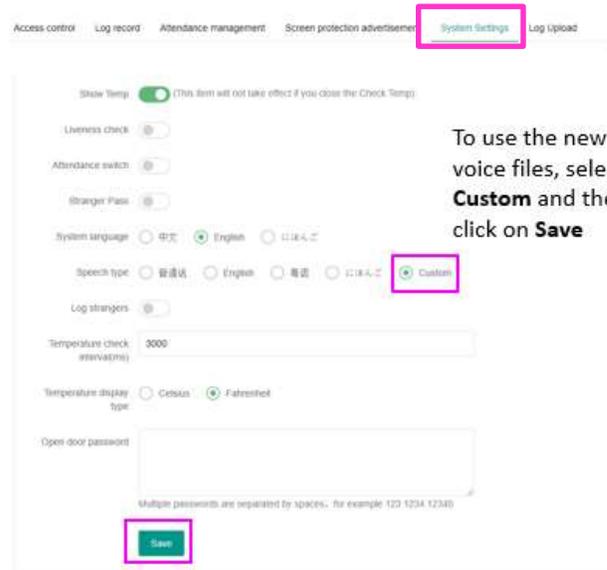


Now the new voice files are loaded into the device.

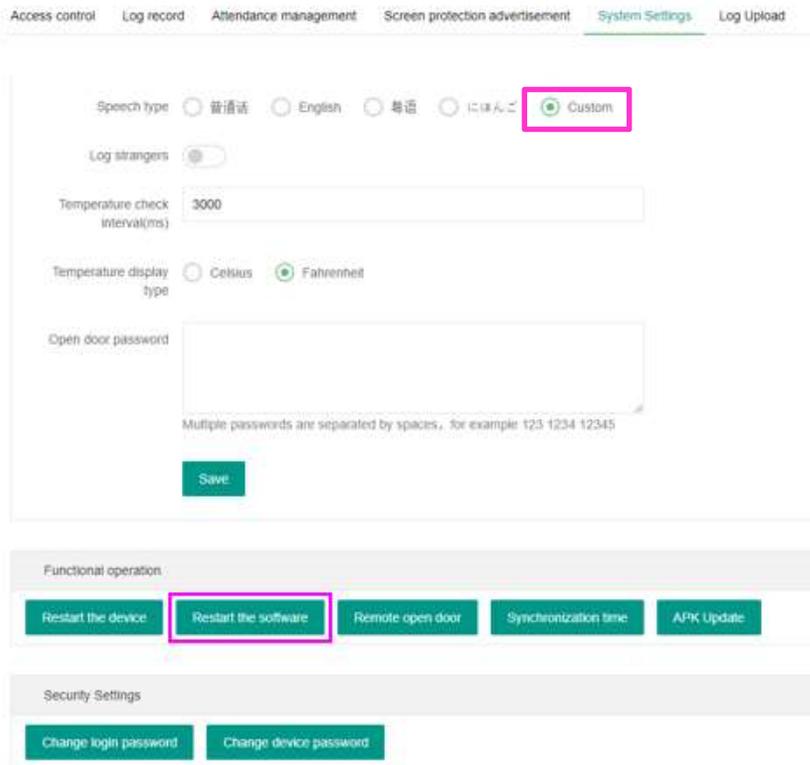
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The last step is to let the PC software know to use the new voice files in the Music folder.

In the PC software under **System Settings** select the **Custom** radio button then click **Save**.



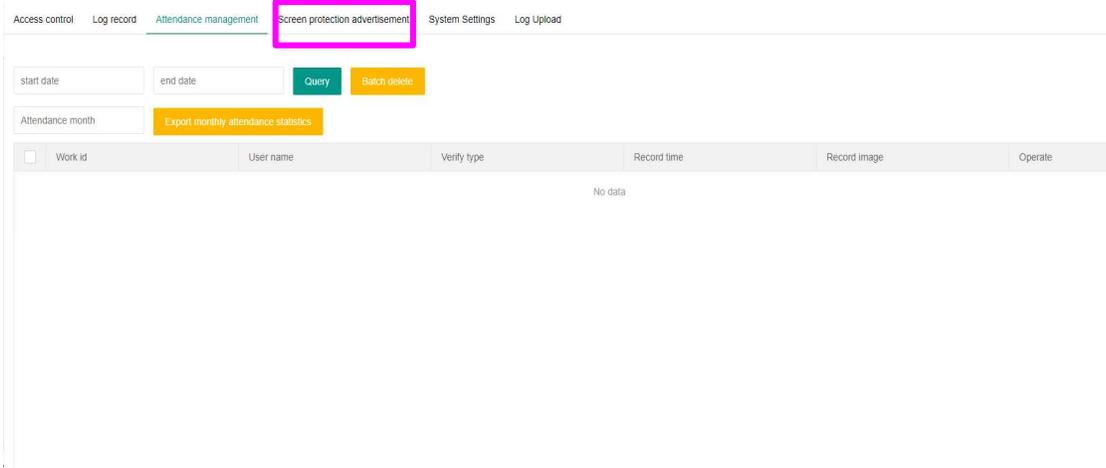
Next, **Restart the software**.



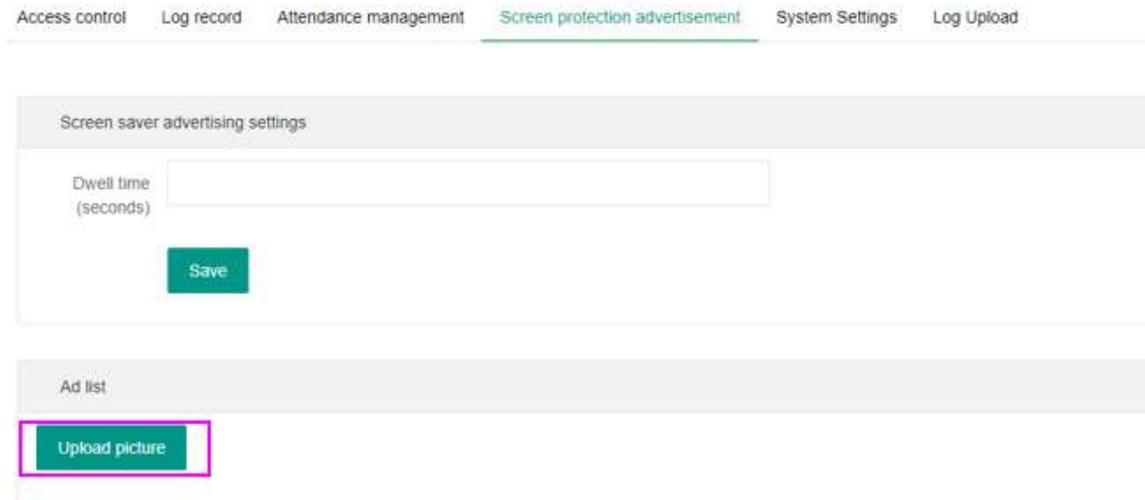
Then click **Restart the software**. The system will reboot and auto-start the thermal scanner software with the new voice files

SCREENSAVER/SCREEN PROTECTION ADVERTISEMENT

This is the screen saver image that will display on the screen when the system is dormant.

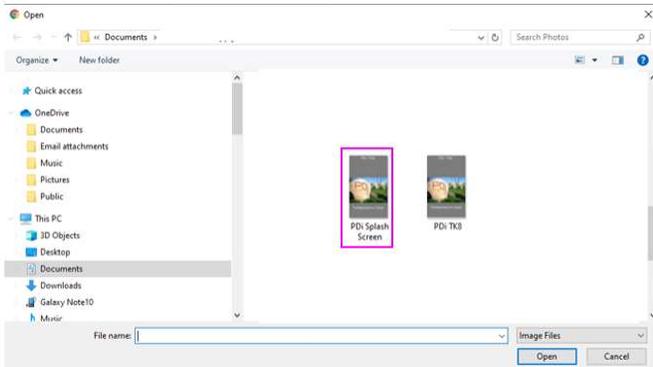
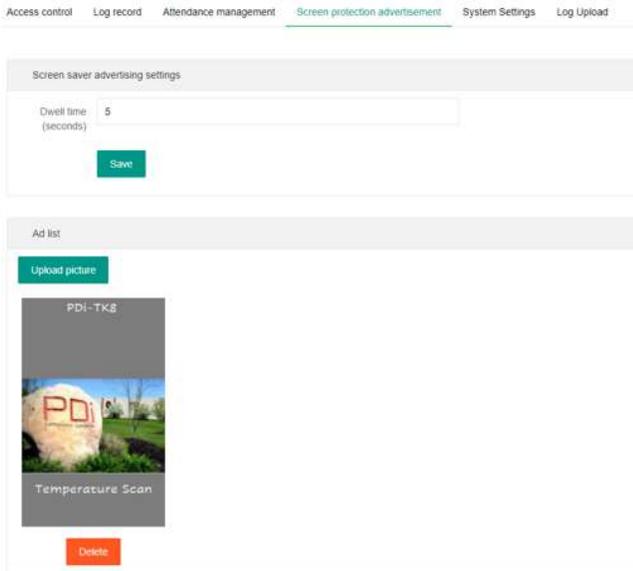


Upload the screen saver image from your storage device.

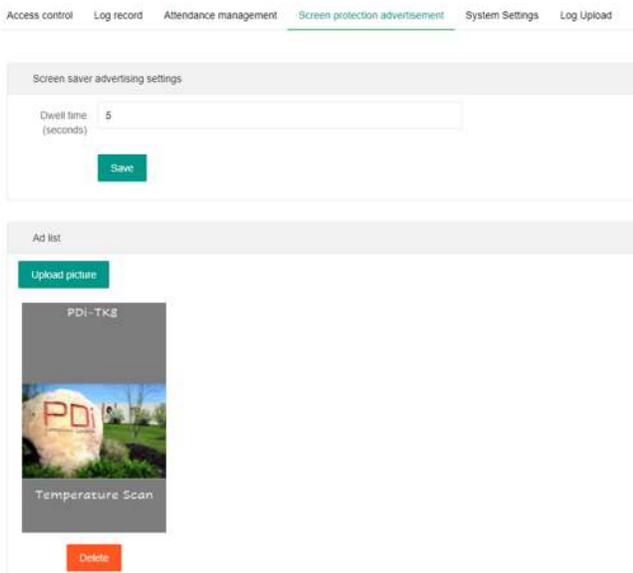


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Sample PDi screen saver uploaded.



Select the image and click on Open



Set the dwell time to the desired time in seconds and **Restart the software.**

SYNCHRONIZATION TIME

To synchronize the system time with your PC, select **Synchronization time**. After a few seconds the device updates with the synchronized time.

Access control Log record Attendance management Screen protection advertisement System Settings Log Upload

Speech type 普通话 English 粤语 にほんご Custom

Log strangers

Temperature check interval(ms)

Temperature display type Celsius Fahrenheit

Open door password

Multiple passwords are separated by spaces, for example 123 1234 12345

Functional operation

Security Settings

LOG RECORD

This feature displays all the records that have been scanned into the system. For each record the time is recorded along with the image capture, the name and measured temperature. You can query individual records, selectively delete records, perform batch delete operation and export the text data to an Excel spreadsheet.

Access control Log record Attendance management Screen protection advertisement System Settings Log Upload

Cumulative check
38/Person

Accumulated fever
0/Person

Check today
13/Person

Fever today
0/Person

Start date End date All records

Work id	User name	Temperature	Device name	Check type	Record time	Record image	Operate
654321	Chuck Stout	97.2 °F	-	Face	2020-08-14 16:08:20	<input type="button" value="See"/>	<input type="button" value="Delete"/>
654321	Chuck Stout	97.2 °F	-	Face	2020-08-14 16:08:16	<input type="button" value="See"/>	<input type="button" value="Delete"/>
654321	Chuck Stout	97.2 °F	-	Face	2020-08-14 16:08:11	<input type="button" value="See"/>	<input type="button" value="Delete"/>
654321	Chuck Stout	97.2 °F	-	Face	2020-08-14 16:07:30	<input type="button" value="See"/>	<input type="button" value="Delete"/>
654321	Chuck Stout	97.2 °F	-	Face	2020-08-14 16:07:24	<input type="button" value="See"/>	<input type="button" value="Delete"/>
654321	Chuck Stout	97.2 °F	-	Face	2020-08-14 16:06:28	<input type="button" value="See"/>	<input type="button" value="Delete"/>
654321	Chuck Stout	97.2 °F	-	Face	2020-08-14 16:06:24	<input type="button" value="See"/>	<input type="button" value="Delete"/>
654321	Chuck Stout	97.0 °F	-	Face	2020-08-14 14:53:19	<input type="button" value="See"/>	<input type="button" value="Delete"/>
654321	Chuck Stout	97.2 °F	-	Face	2020-08-14 14:53:14	<input type="button" value="See"/>	<input type="button" value="Delete"/>
654321	Chuck Stout	97.2 °F	-	Face	2020-08-14 14:53:10	<input type="button" value="See"/>	<input type="button" value="Delete"/>

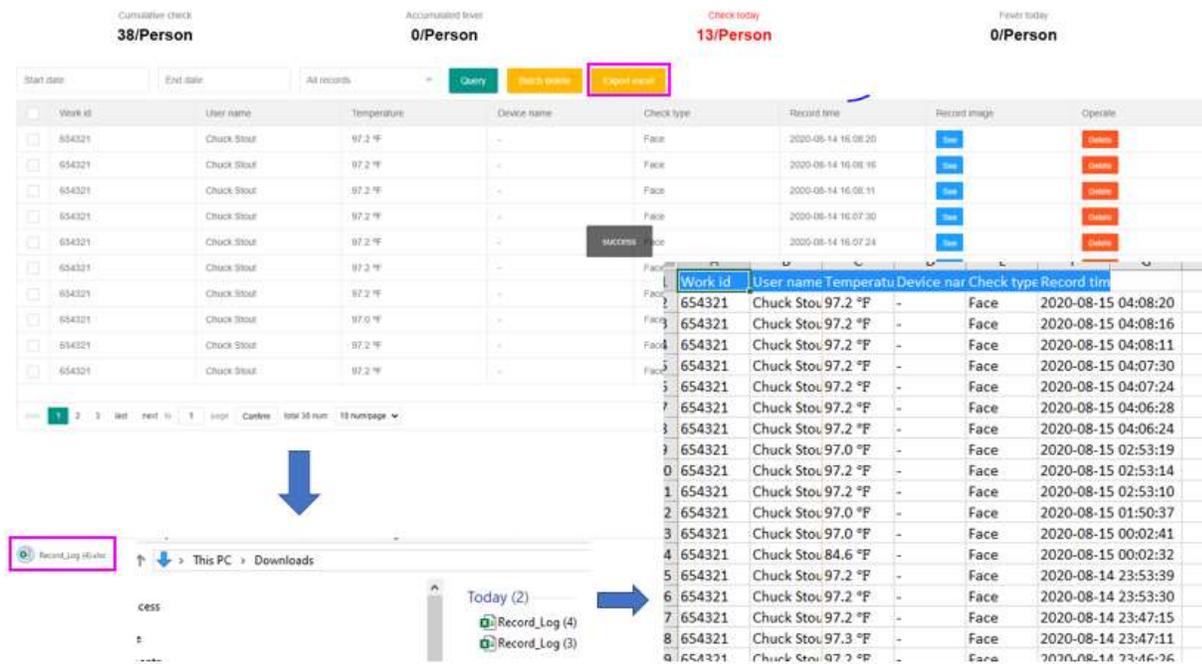
System will store each thermal sample. Log can be exported to excel

page: 1 2 3 last first 1 page Confirm total 38 num 10 num/page

To preview an image, click the button “SEE” as a convenient way to ensure you have the correct image per record.



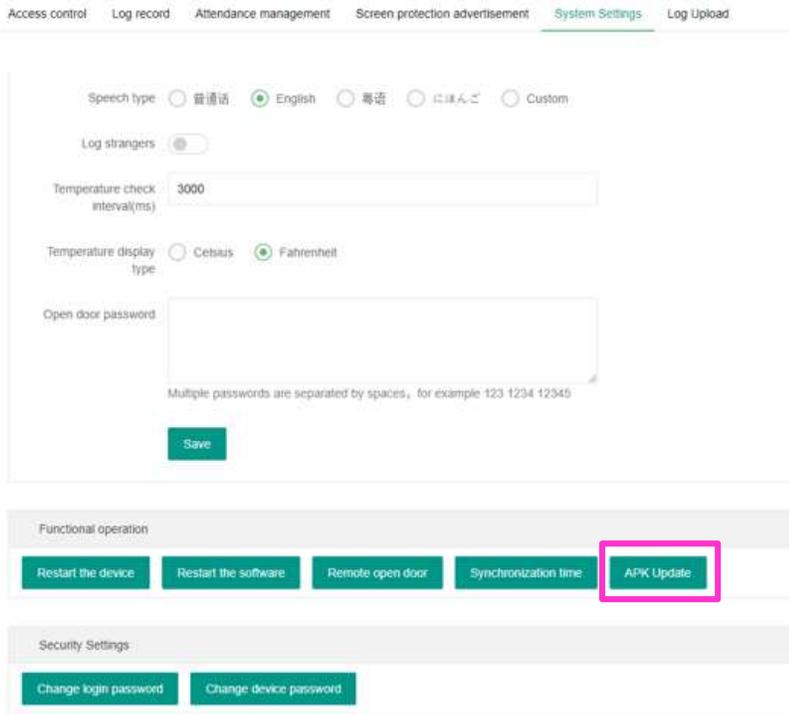
To export, click on the **Export excel** button. The file will be written to the download folder on your PC and may then be opened in Excel. **Note:** there are no images uploaded with the log file.



APK UPDATE

Should a software update be required, select this option and navigate to where the new .apk file is located. Then select **APK Update** to update the system software.

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The new .apk will be downloaded and installed on the system. Once the unit is back at the Android desktop swipe up and select the application named BIOMATRIX.



ADDITIONAL INFORMATION

Additional information is available online at www.pdiarm.com.

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LIMITED WARRANTY

PDi Communication Systems Inc., (“PDi”) standard warranty information is found at pdiam.com. For information regarding authorized servicing and all other information pertaining to this warranty, please contact PDi COMMUNICATION SYSTEMS, INC. at 40 Greenwood Ln, Springboro, Ohio 45066 or phone 800-628-9870 and ask for the PDi ProServices team.