

Enhanced Platform (EP)

Setup Guide

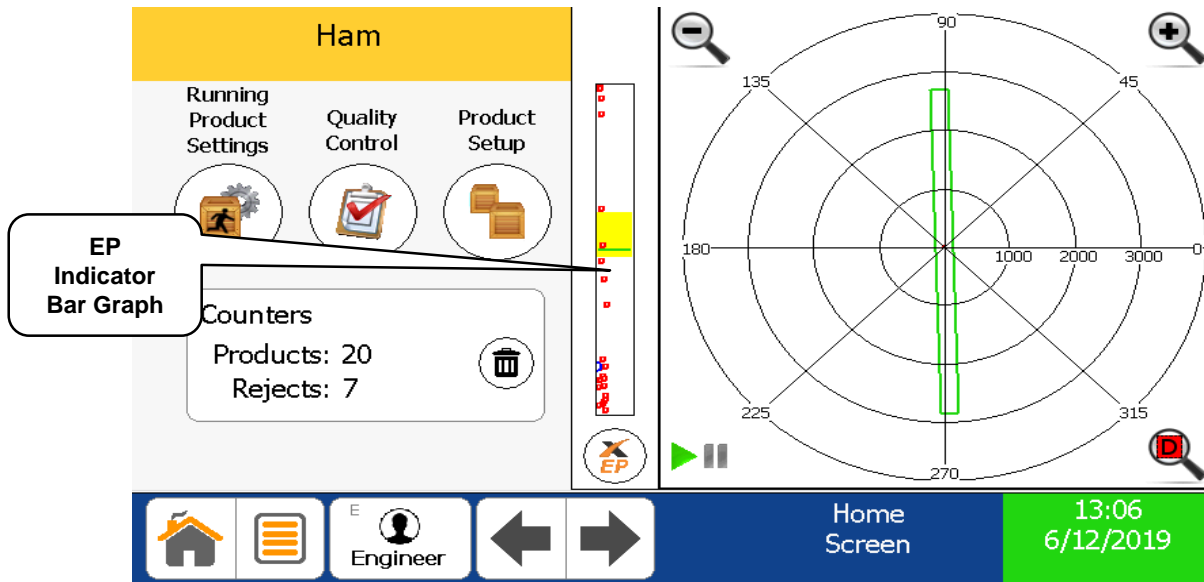




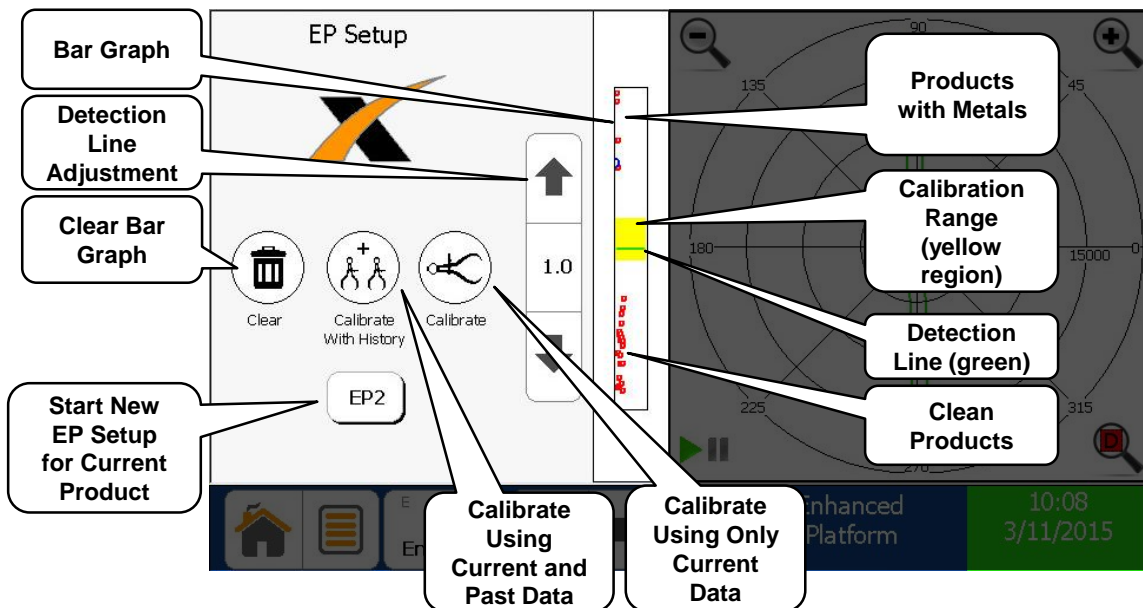


ENHANCED PLATFORM (EP) OVERVIEW

Eriez Xtreme Metal Detector with Enhanced Platform (EP) provides increased sensitivity when scanning relevant products for metal.



EP SETUP PAGE

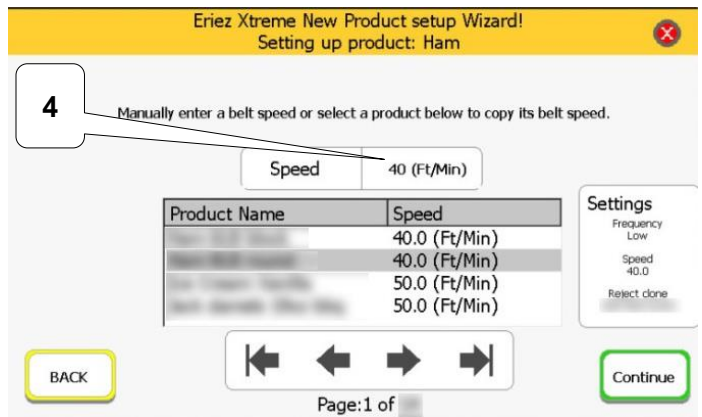
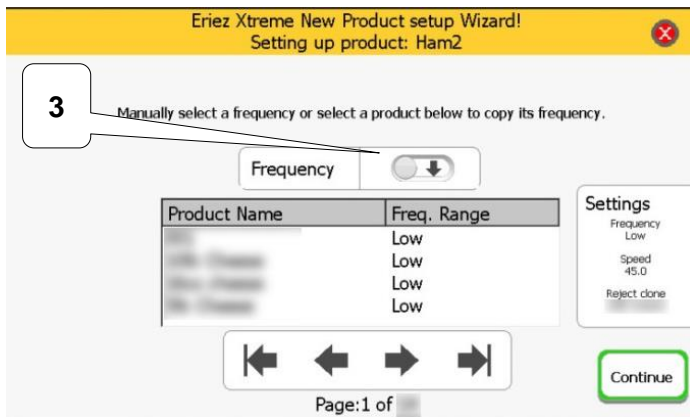
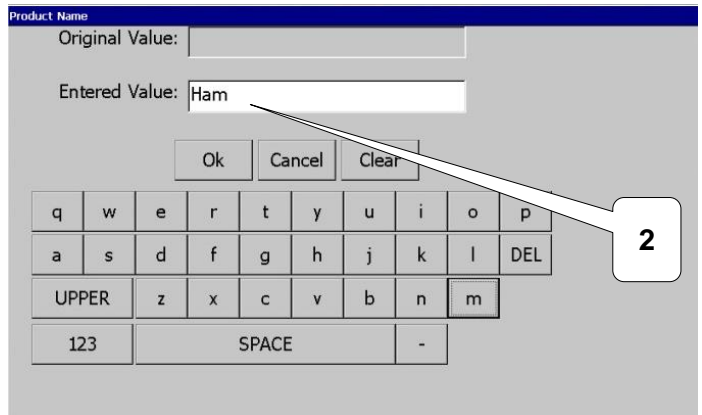
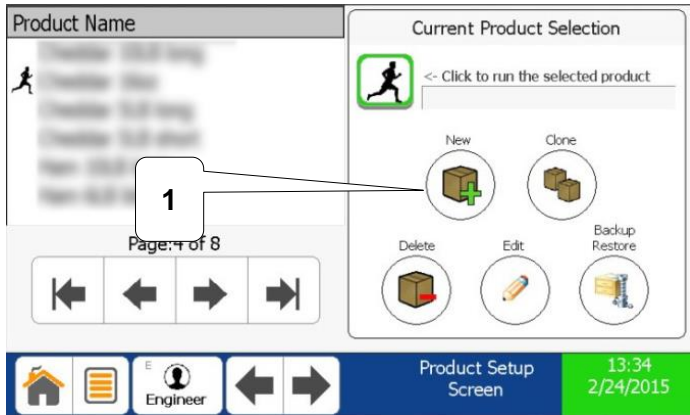


NOTE: This EP Setup Guide assumes that the user has a working knowledge of and familiarity with the Eriez Xtreme Reference Guide. Please see the Reference Guide for clarification on non-EP related items.





“HOW TO” SETUP ENHANCED PLATFORM DETECTION



1. Create new product
2. Provide a unique product name
3. Choose frequency as described in Xtreme Reference Guide
4. Choose desired belt speed



“HOW TO” SETUP ENHANCED PLATFORM DETECTION

The image displays four screenshots from a metal detector's control interface, illustrating the steps for setting up Enhanced Platform Detection (EPD).

- Step 1:** The 'Boundary Auto Setup' screen shows a 'Start' button (green play icon) and a 'Cancel' button (red X icon). A callout '1' points to the 'Start' button. The screen also indicates 'Detect Enabled' and shows a circular plot with a horizontal green line.
- Step 2:** The 'Boundary Auto Setup' screen shows a 'Sensitivity' slider set to 94 and a 'Save' icon. A callout '2' points to the 'Sensitivity' slider. The screen also shows a 'Show Details' checkbox and a 'Cancel' button. The circular plot now shows a vertical green line.
- Step 3:** The 'EP AutoSetup' screen shows a 'Mode' selection menu with options EP1, EP2, and EP4. A callout '3' points to the 'Mode' selection. The screen also shows a 'Cancel' button (red X) and a 'Pass 5 unique products through the metal detector.' instruction.
- Step 4:** The 'EP AutoSetup' screen shows a 'Start' button (green play icon) and a 'Cancel' button (blue circular arrow). A callout '4' points to the 'Start' button. The screen also indicates 'Detect Enabled' and shows a circular plot with a vertical green line and a '16.0' value.

1. Start the Boundary Auto Setup and run one clean product through the Metal Detector as you normally would to set up the boundary values.
2. Accept the boundary settings
3. On the EP Auto Setup screen, choose EP1, EP2, or EP4 (see notes on next page)
4. If EP detection is not desired, press the cancel button



“HOW TO” SETUP ENHANCED PLATFORM DETECTION

The following can be used to determine which EP Mode is best suited for your application

EP1



Choose EP1 for smaller and more homogeneous products such as a half-gallon of milk; a five-pound tub of yogurt, sour cream, or cottage cheese; a four or eight-pound whole boneless ham; a solid consistent uniform-sized block of cheese.

EP2



Choose EP2 for longer and more irregularly shaped products such as large slabs of bacon, irregular density or long blocks of luncheon meats.

EP4



EP4 generally provides improved sensitivities when compared to EP1 and EP2. EP4 is an optional upgrade.

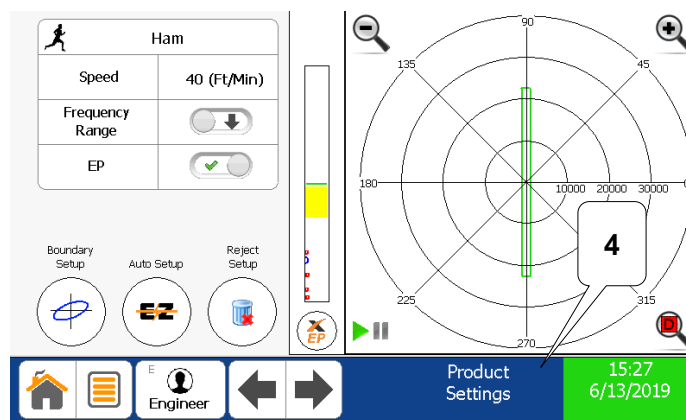
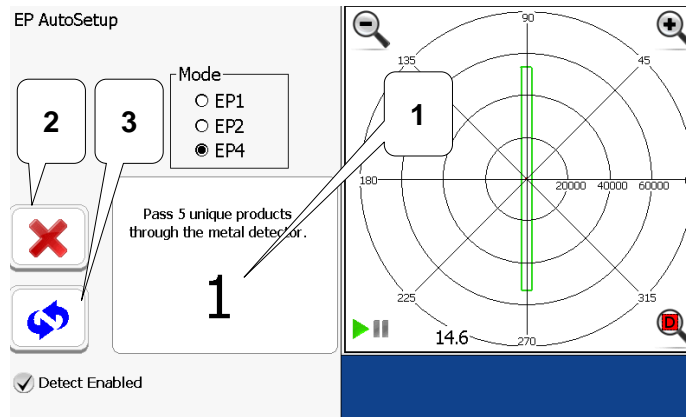
N/A



Enhanced Platform is unlikely to improve sensitivity for products with very small peak signals, less than approximately 50 on the graph.



“HOW TO” SETUP ENHANCED PLATFORM DETECTION



1. Run five more clean products to automatically set up the EP detection value and position the EP detection line. The number of products run so far is displayed.
2. The EP setup can be cancelled at any time by hitting red X
3. The EP setup can be restarted at any time by clicking the blue arrows.
4. After five products have been recognized, and the EP detection line has been automatically set, the unit returns to the Product Settings pages.

At this point, EP detection setup is complete. The EP detection can be more finely-tuned by following the steps on page 7, “HOW TO FINE TUNE THE EP SETUP”.

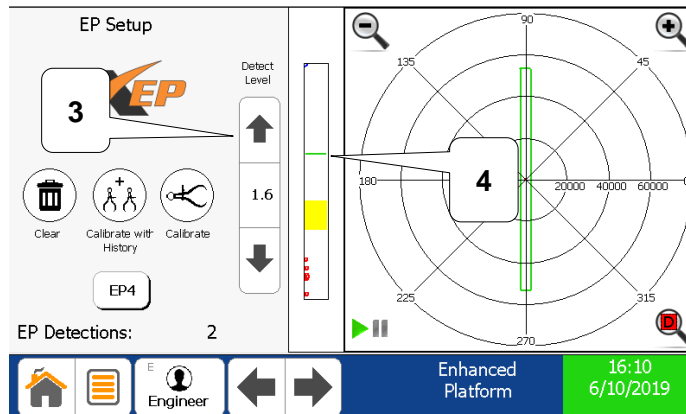
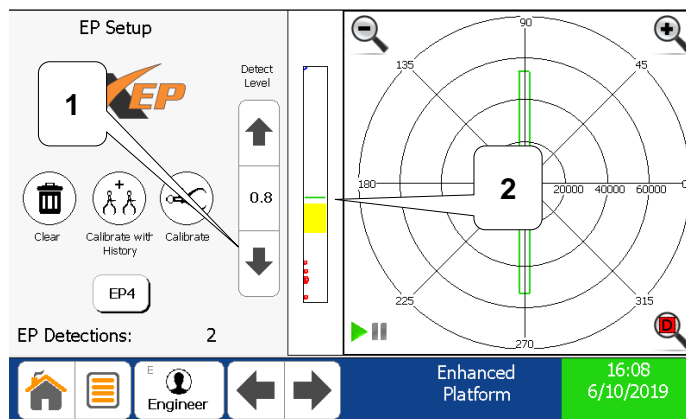


“HOW TO” ADJUST THE EP DETECTION LINE

IMPORTANT NOTE:

Whenever one of the Calibrate buttons is pressed, the Metal Detector will automatically set the EP detection line to the optimum position based on the clean products run.

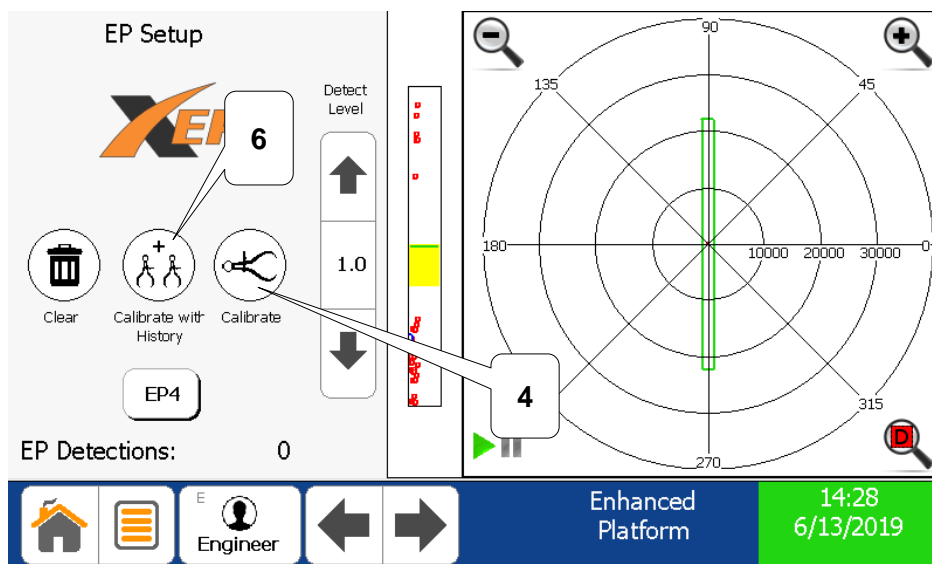
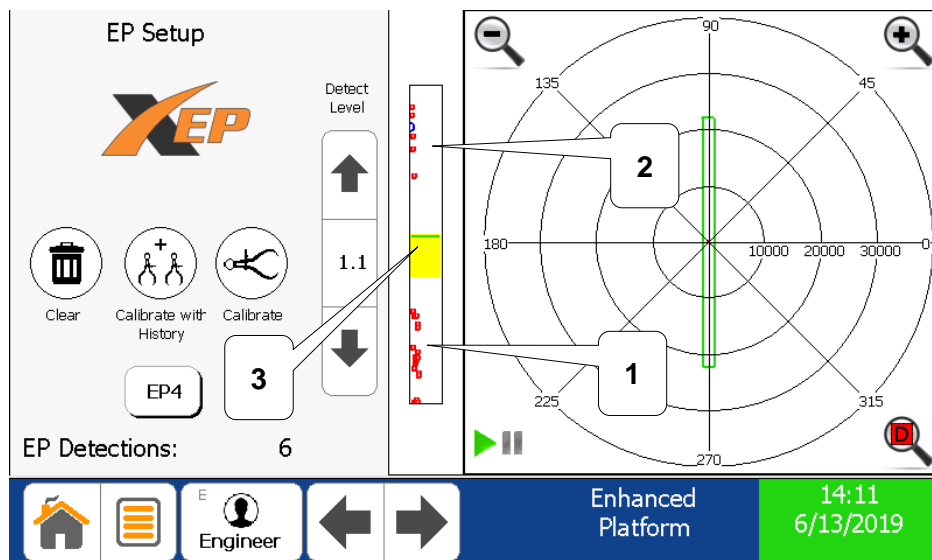
However, at any time, the EP Detection can be made more or less sensitive than the automatically calibrated value by manually lowering or raising the detection line and NOT pressing calibrate.



1. Use the down arrow to LOWER the detection line and make the system MORE SENSITIVE.
2. The resulting detection line (green) is nearer to the clean data.
3. Use the up arrow to RAISE the detection line and make the system LESS SENSITIVE.
4. The resulting detection line (green) is farther from the clean data.



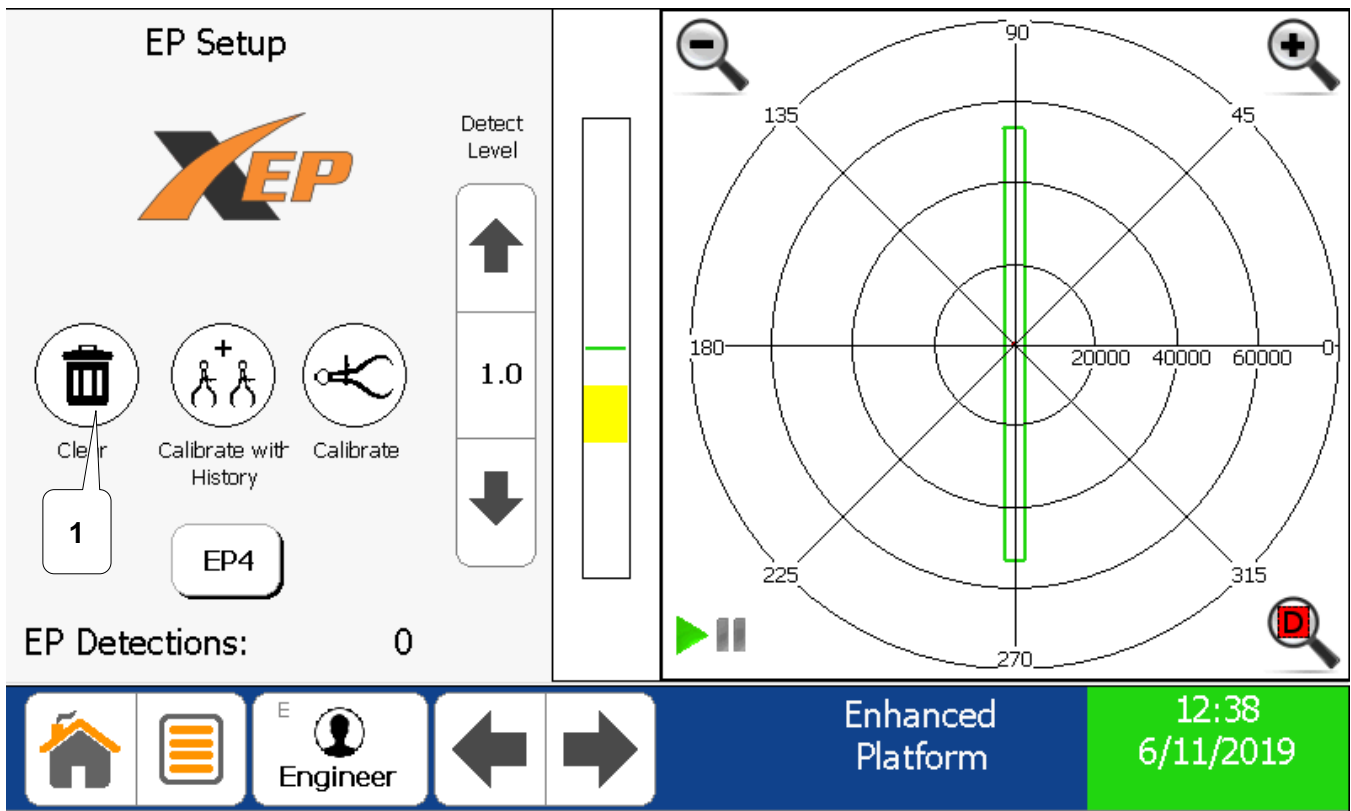
“HOW TO” FINE TUNE THE EP SETUP



1. Run 10 or more clean products through the metal detector.
2. Run 5 products with the desired metal test sticks through the metal detector.
3. Adjust the detection line so that it is located between the two groupings of data.
4. Calibrate the system by pressing the “Calibrate” button.
5. Repeat this process verifying that all clean products fall below the detection line and all products run with metals lie above the detection line. If clean products fall above the detection line or products with metal fall below the detection line, repeat the process again.
6. If this process is repeated more than three times and desired results are not achieved, repeat the process from step 1 using the “Calibrate with History” button.



“HOW TO” CLEAR BAR GRAPH DATA



1. If desired, press “Clear” to remove all dots from the bar graph. The EP detection line and calibration will remain unchanged.



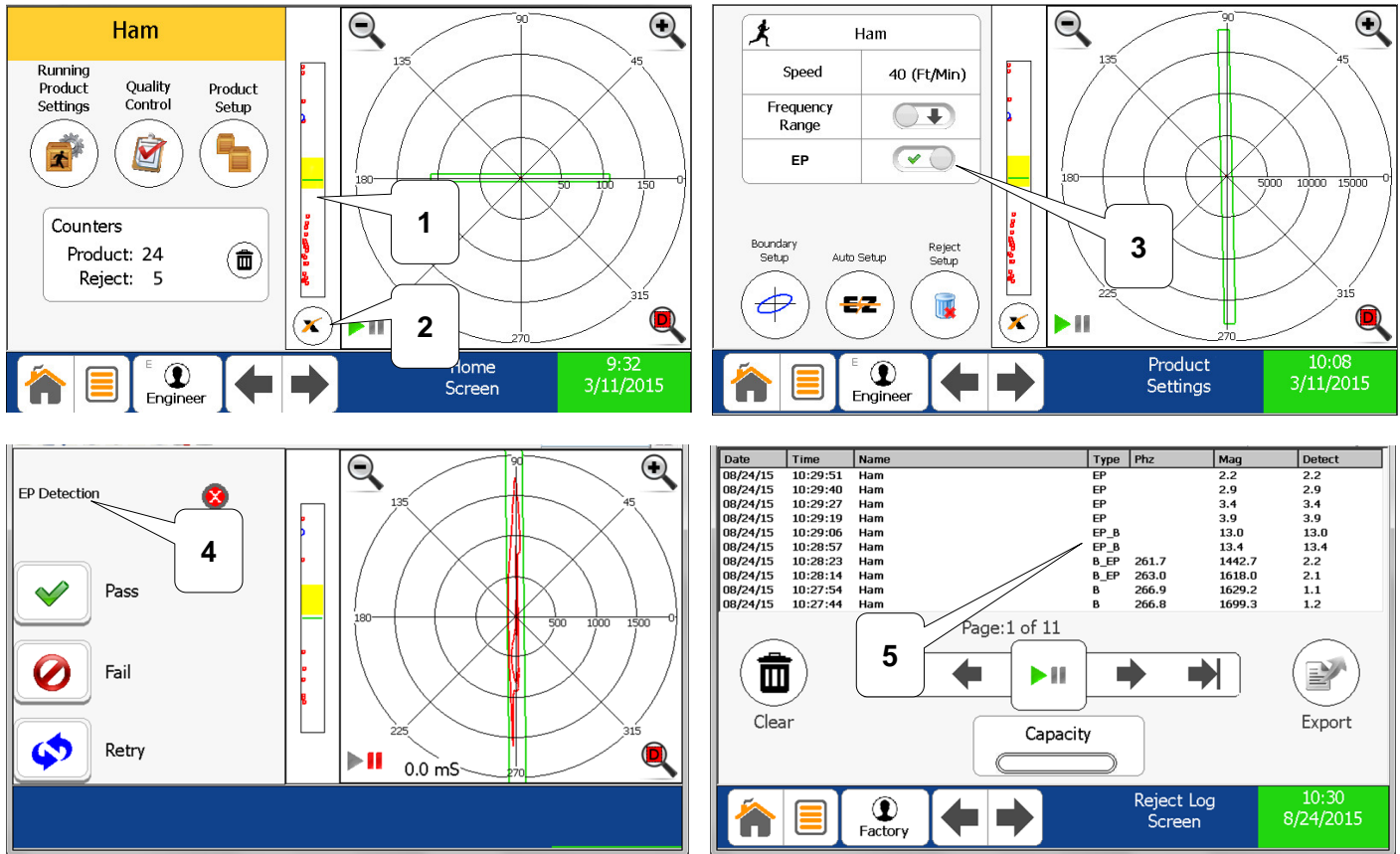
“HOW TO” RESTART AN EP SETUP

The screenshot displays the 'EP Setup' interface. On the left, there is a control panel with the XEP logo, a 'Detect Level' section with a vertical slider set to 0.8, and three circular icons for 'Clear', 'Calibrate with History', and 'Calibrate'. Below these is a callout box for 'EP4' with a '1' next to it, and the text 'EP Detections: 13'. The right side features a radar chart with concentric circles at 20000, 40000, and 60000, and radial lines at 45, 90, 135, 180, 225, 270, and 315 degrees. A green vertical bar is positioned at the 270-degree mark. The bottom navigation bar includes icons for Home, List, Engineer, and navigation arrows, along with the text 'Enhanced Platform' and a green status bar showing '11:28 6/11/2019'.

1. If desired, press the “EP1”, “EP2”, or “EP4” button (the label changes based on the current setting) to begin a new EP auto setup.



OTHER SCREEN CHANGES RELATED TO EP



1. The Home Screen shows the EP bar graph for every product that is using EP detection.
2. The EP bar graph provides an EP button to navigate to the Enhanced Platform page.
3. The Product Settings screen provides the ability to turn EP detection on or off for each product.
4. The Validation Screen now shows EP Detection as a possible result when performing a system validation on a given product.
5. In the Reject Log there are four detection types:
 1. "B" – A detection occurred on the Boundary only
 2. "EP" – A detection occurred on EP only
 3. "B_EP" – A detection occurred on both Boundary and EP, with the Boundary detection being greater
 4. "EP_B" – A detection occurred on both Boundary and EP, with the EP detection being greater



“HOW TO” USE AN EP4 TRIAL



1. The “Start EP4 Trial” button is disabled due to the current user being at the “View” level.
2. The “Start EP4 Trial” button is now enabled due to the current user being at the “Engineer” level.
 1. The EP4 trial is only able to be activated at the “Engineer” level and up.
 2. Once this button is pressed, the EP4 trial will be activated. This action can not be undone.
3. After the EP4 trial is started, the home screen will display how much time is left before the trial expires.
 1. When there are greater than 24 hours left on the trial, the number of full days will be displayed.
 2. When there are 24 hours or fewer left on the trial, the number of hours will be displayed.
4. After the EP4 trial evaluation period has expired, the home screen will display a message “EP4 Trial Expired”.
5. A warning will also be displayed any time a product utilizing EP4 detection is used after a trial expires or EP4 is removed from the machine. The customer’s options to remove the warning are as follows:
 1. Purchase EP4.
 2. Turn off EP4 detection for any products utilizing EP4. If this is done, boundary only will be utilized.
 3. Set up the products utilizing EP4 to use EP1 or EP2 instead.
 4. Delete the products utilizing EP4.

Note: Some safety warning labels or guarding may have been removed before photographing this equipment.
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