

OPOS-X Sensitivity Adjustment

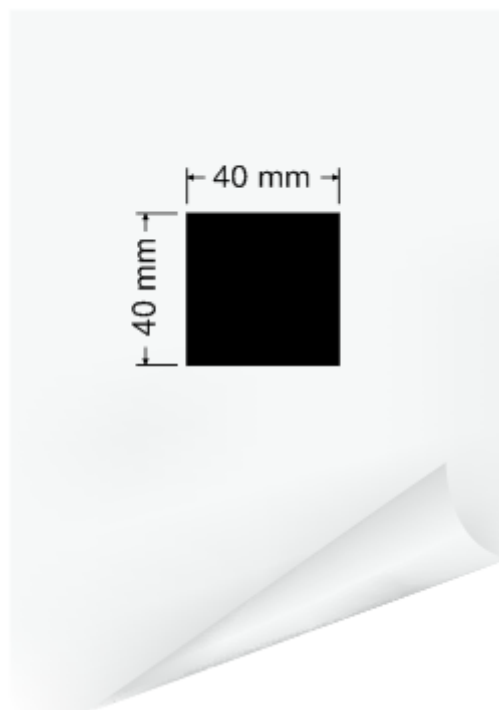
The optical sensor that detects the markers sends out a white light. This light is reflected on the media and is picked up with the OPOS receiver.

Depending on the vinyl, lamination and/or color for the markers used, it may be necessary to adjust the sensitivity of the OPOS-sensor. This is performed by doing the “Media Calibration”.

Media calibration ensures that the sensor is able to recognize the markers. OPOS is calibrated at the factory to work on a wide range of media. However, certain media -- such as those with a high gloss -- may not work with the default settings. Before working with such materials, perform a media calibration test. This test will alter OPOS’s sensitivity so that it will read the markers with greater reliability.

Print OPOS test sheet

Print a square measuring at least 4x4cm on the media that will be used. Be sure to use the same ink and media that will be used when creating the registration markers and design. Laminate the test sheet in case the final design also features lamination.

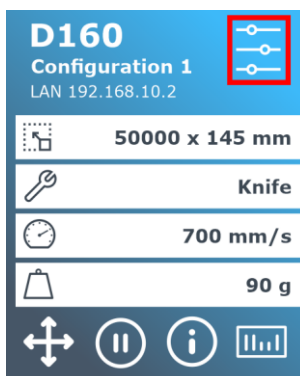


NOTE: It is not recommended to do media calibration for OPOS. If the media calibration is done and results are not better, then set the media calibration value again to default: 100 (see further in the procedure how to Reset OPOS sensitivity).

Calibrate OPOS sensitivity

1. Turn on the cutter and load the (laminated) vinyl with the printed square.

2. Click the  button.



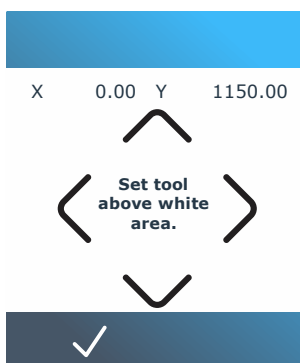
3. Scroll through the menu and click on [Calibrations].





4. Select the option [Calibrate media (OPOS)].

The cutter allows the user to choose to either measure the media or to fill in a previously recorded value.

5. Select the option [Measure].





The cutter will lower the sensor. On the display, the message "put knife on white area" will appear.



6. Use , ,  or  to maneuver the knife on top of a white area (the area should be at least 3 by 3 cm or 1" by 1").

7. Press  to confirm.

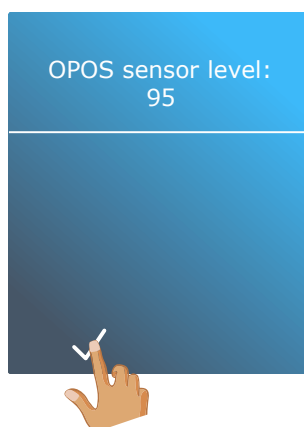
The cutter will make a circular movement while it measures the reflection of the media. It will briefly display the measured values and display the message “put knife on black area.”

8. Use , ,  or  to maneuver the knife on top of a black area (approximately in the middle and slightly to the bottom right).


9. Press  to confirm.

The cutter will make a circular movement while it measures the reflection of the marker color.

10. The new value that is characteristic for this media color – marker color combination. Is shown. Store this value for future reference.



11. Press  to confirm.

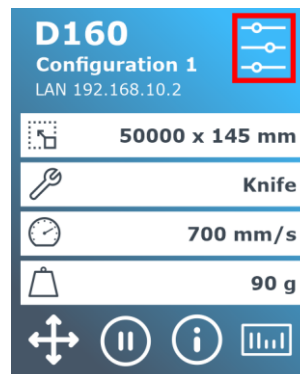
12. Press  to get online again.

Set OPOS sensitivity

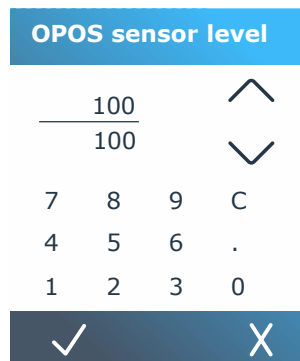
To set the sensitivity of the OPOS sensor to a known previously recorded value, then use this procedure:





1. Turn on the cutter and load the (laminated) vinyl with the printed square.

2. Click the  button.



3. Scroll through the menu and click on [Calibrations].
4. Select the option [Calibrate media (OPOS)].
The cutter allows the user to choose to either measure the media or to fill in a previously recorded value.
5. Select the option [Set].
This displays the current sensitivity.

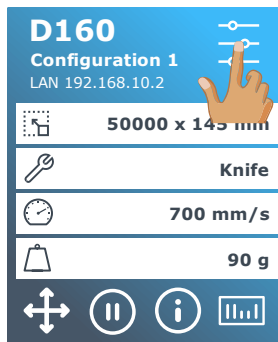


6. Use  or  to change the sensitivity, or use the numeric keys to set the sensitivity to a known value for the media used.
7. Press  to confirm.
8. Press  to get online again.

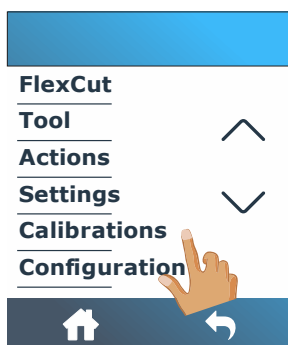
Reset OPOS sensitivity

To reset the OPOS sensitivity to the default value, follow the below procedure:

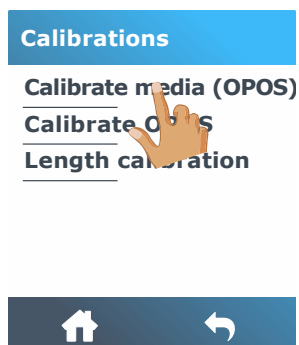
1. Power on the cutter.
2. Press [Settings].



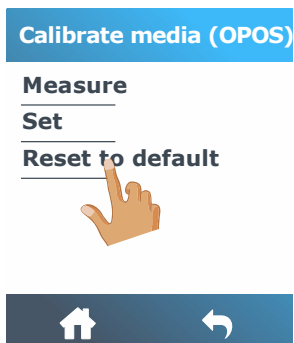
3. Press [Calibrations].



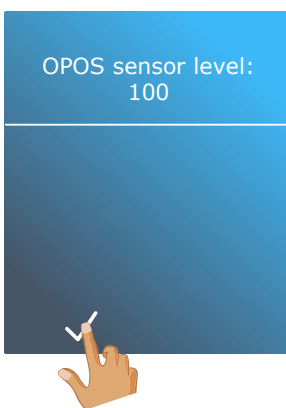
4. Press [Calibrate media (OPOS)].




5. Press [Reset to default]. This set the sensitivity to the default value of 100.



6. Confirm the setting.



7. Press  to get online again.

Revised March 17, 2021