

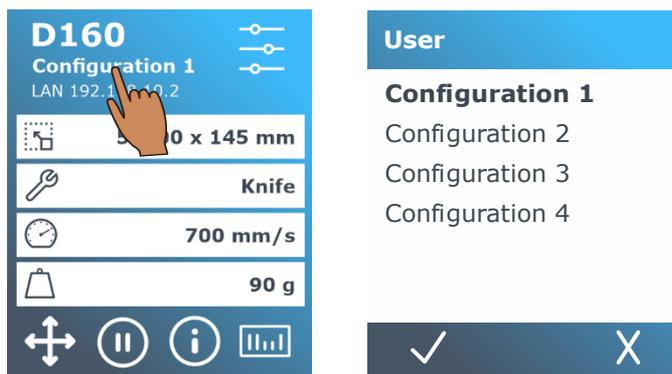
Media Sensor Calibration

Introduction

To detect media presence, and to find the rear edge of the media, the machine is equipped with a media sensor. This sensor emits infrared light, which is reflected by the liner of the media to the media sensor. The machine measured the amount of reflected infrared light to determine if media is present.

Depending on the color of the backing of the media loaded in the machine, the sensitivity of the media sensor may be adjusted, to be able to detect the presence of the media.

The media sensitivity setting is stored per user configuration. It is best to choose a user configuration, then calibrate the media sensor for this kind of media.

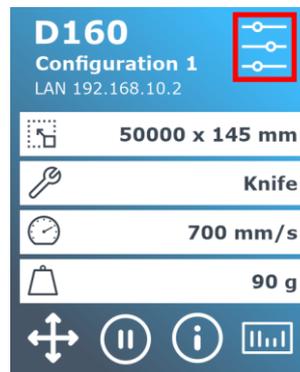


Media sensor sensitivity calibration

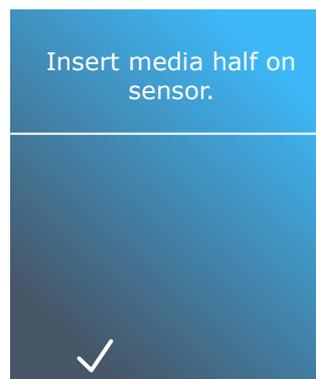
To access the “Media sensor setup” menu to adjust the media sensor sensitivity, follow the next steps:

1. Start the machine

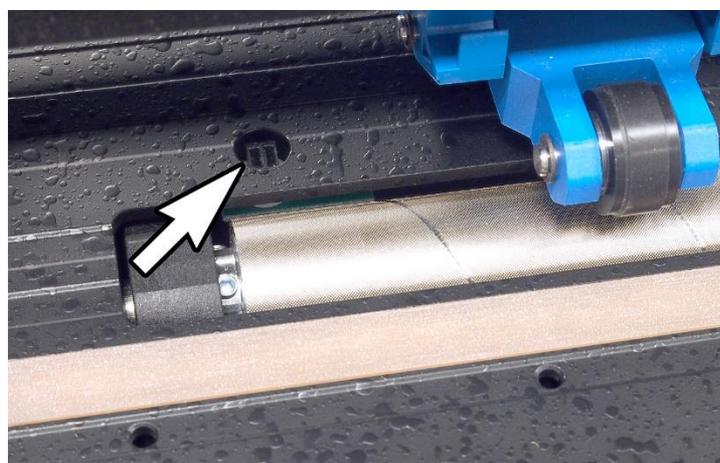
2. Click the  button.

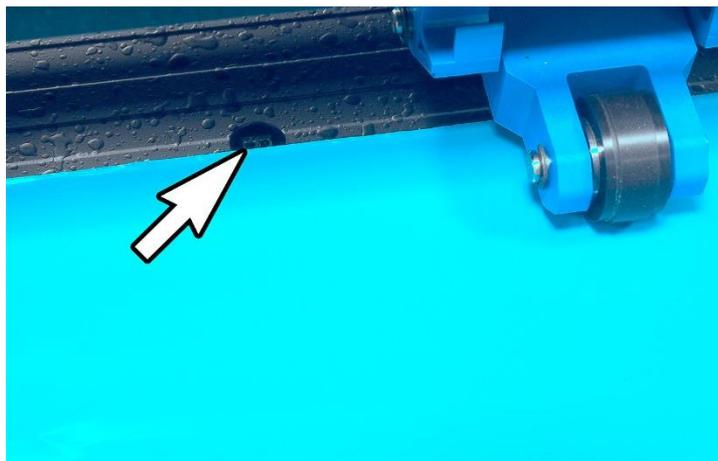


3. Scroll through the menu and click on [Calibrations].
4. Select the option [Media sensor setup].
5. Select the option [Measure].
- A dialog to put media halfway the sensor will appear.



6. Load a piece of media from the front of the machine halfway on the sensor and under the two outermost pinch rollers.



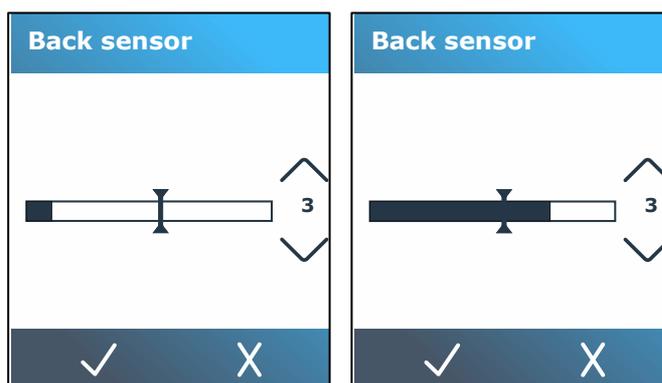


7. Slide the right side pinch roller block until it is over the media sensor.
8. Set the left side pinch roller near the left edge of the media, and at a grid roller position. Reposition the media to the left or right until the left side of the media is over a grid roller.
9. Lower the pinch rollers.

10. Click the  key to continue.

The cutter moves the media backward and forward to cover and uncover the media sensor.

The display alternatively shows the reflection value of the sensor when covered or not covered.



11. Use  or  to change the sensitivity.

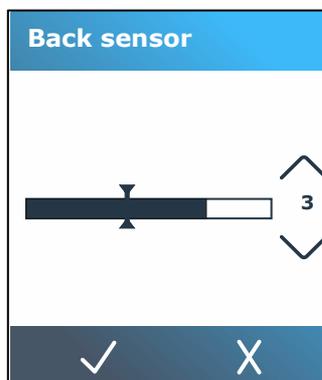
The sensitivity can be changed from 0 (high sensitivity) to 4 (low sensitivity). The sensitivity is correctly set when if the sensor is covered, the bar graph is almost completely filled. When the sensor is uncovered, then the bar graph is (almost) empty.

Note:

Default value for the sensitivity is 3.

12. Slide the **I** to set the trigger level.

Ideally the trigger level is set halfway the bar in the bar graph when the sensor was covered and when the sensor was uncovered.

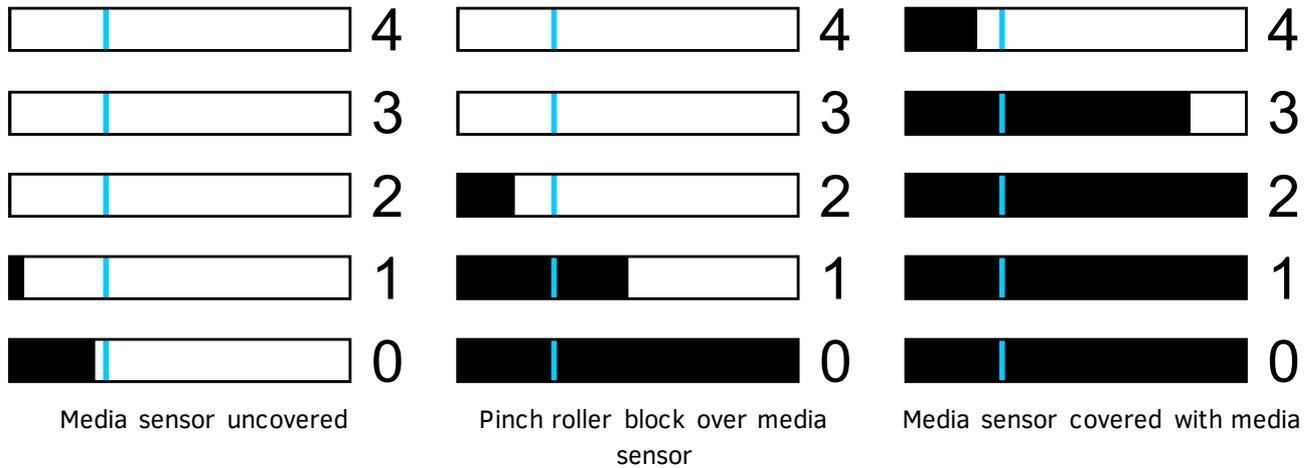


13. Press **✓** to confirm the calibration.

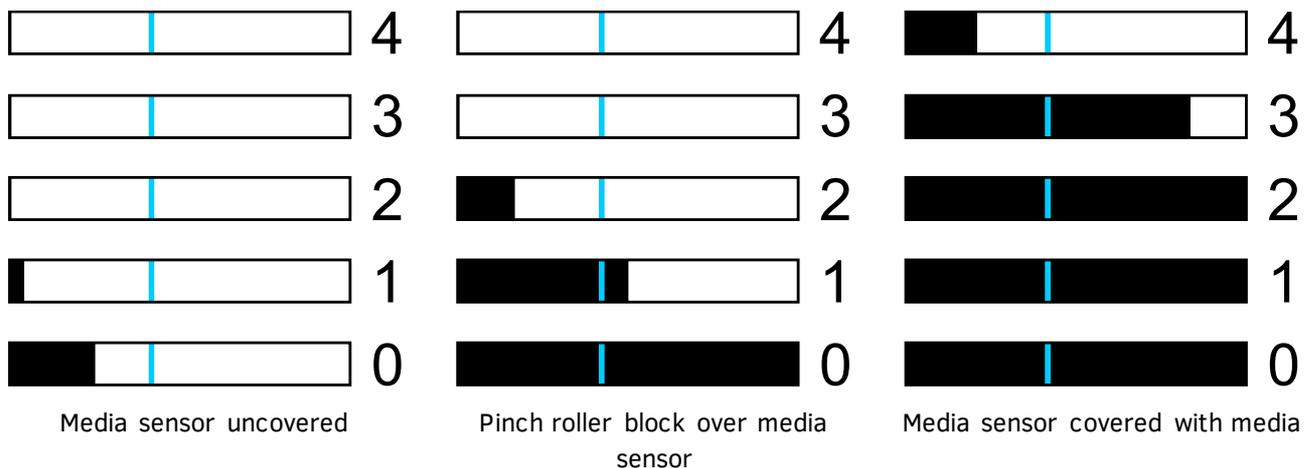
Media with white liner

When using media with a white or light colored backing, the following scenario may appear: when the sensitivity is set to 4, then media will never be detected. When the sensitivity would be set to 1 or 2, then when the pinch roller block is over the media sensor, then the pinch roller block will be sensed as media is present, causing the media to drop out of the machine when searching for the rear edge of the media. Adjusting the trigger level may be necessary to prevent ambient light to interfere with the media sensor.

Before adjusting the trigger level



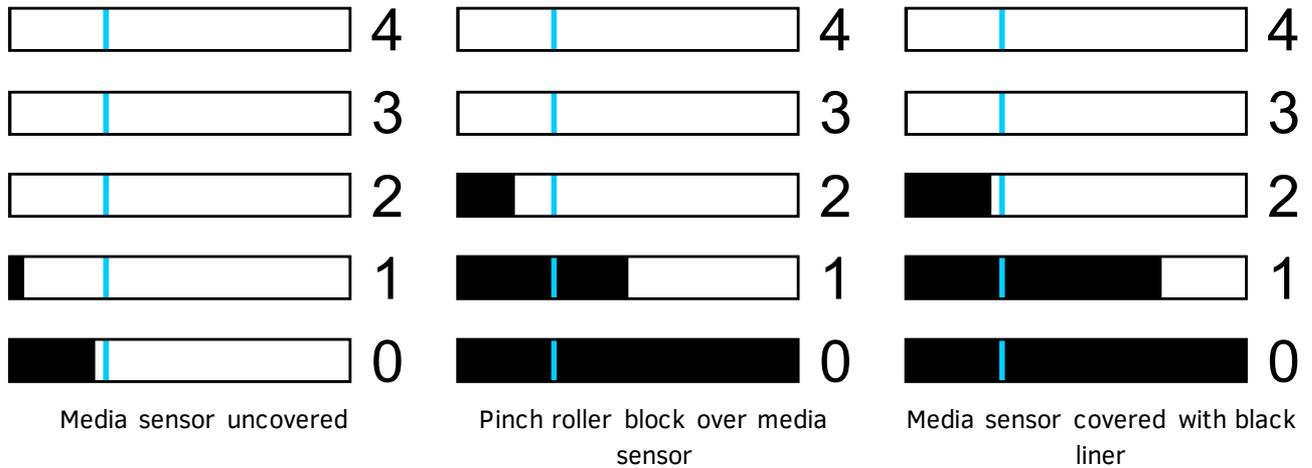
After adjusting the trigger level: use sensitivity 3, and set trigger level halfway the full bar.



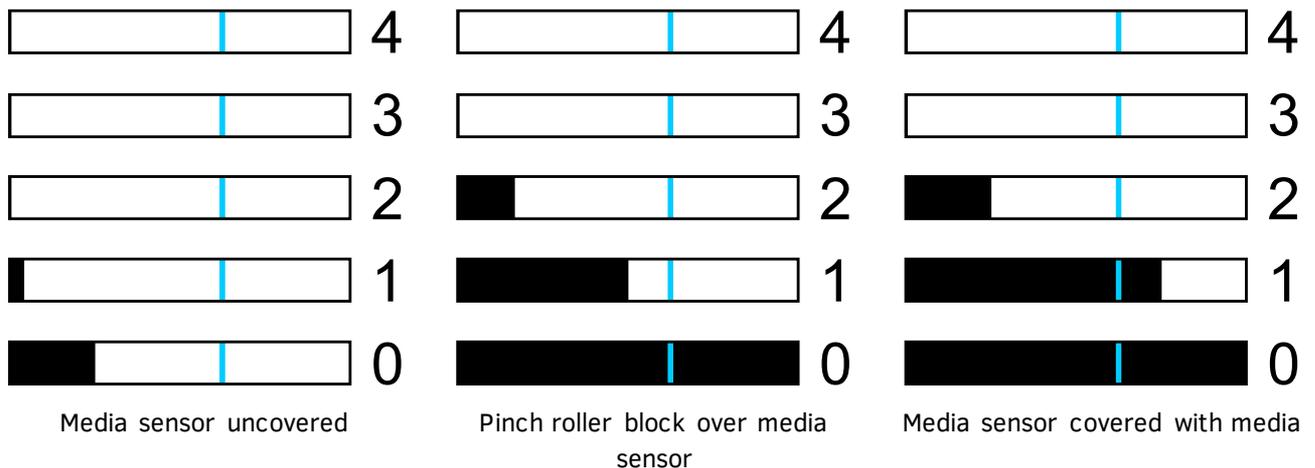
Media with black liner

When using media with a black or dark backing, the following scenario may appear. With the current setting, the media will not be sensed when the sensitivity was set to 2, 3 or 4. When set to 0 or 1, then it will be sensed. However, when the pinch roller block is over the media sensor, then this will be sensed as media being present, resulting in the machine being unable to sense the end of the media. This may cause the media to drop out of the machine. Adjusting the trigger level is necessary.

Before adjusting the trigger level



After adjusting the trigger level: use sensitivity 1, and set trigger level halfway the covered bar and the pinch roller block bar.

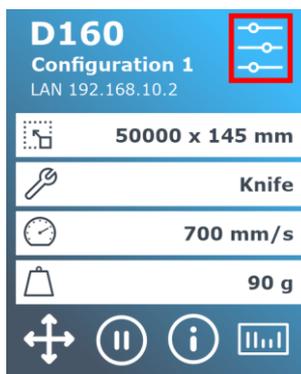


Media sensor activity

Alternatively, it is also possible to switch the media sensor off. The machine then assumes media is present, and will not check for the rear edge of the media. Switching the media sensor off may increase the risk of cutting in the cutting strip as the media may be fed out of the machine.

1. Power on the cutter.

2. Click the  button.



3. Scroll through the menu and click on [Configuration].
4. Scroll through the menu and click on [Media sensor].
5. Click on [Off] and confirm.

Revised January 18, 2022