

# Codonics Horizon User's Manual

**GS/G2/G1  
Addendum**

## **Codonics Horizon User's Manual Addendum**

### **Summary**

The latest versions of Horizon® GS/G2/G1 Imager utilize hardware and software that is not compatible with previous versions. New software Version 4.0.0 is required to support those changes.

The latest versions are identified by the imager serial number prefix **150C**. Please contact your Codonics representative for further information.

**NOTE:** Horizon Imagers with serial number prefix 150C cannot be downgraded to any previous software version. Imagers with a serial number prefix other than 150C cannot have their software upgraded to 4.0.0.

### **What Is Covered in This Addendum**

The operator instructions for the Horizon Imager are provided in the *Horizon Imager User's Manual*. This addendum covers functionality that is unique to the latest versions of the imager that run Version 4.0.0 software and replaces those sections in the existing manual. Unless specified in this addendum, to operate the imager you can follow the instructions in the *Horizon Imager User's Manual*.

### **Updating Safety Labeling**

The latest versions of the imager have the following updated safety labeling:

- A new temperature warning label, shown below.

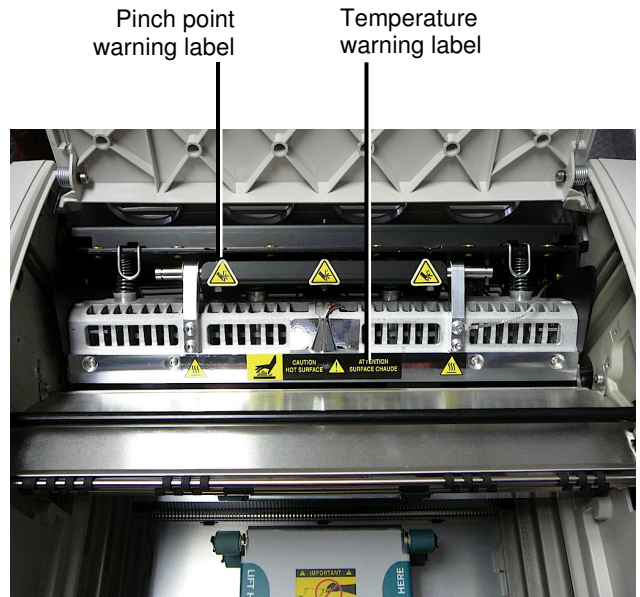


- Pinch-point labels along the top of the thermal print head assembly, shown below.



- Because the latest versions of the imager no longer include a barcode reader, laser safety labels are not required.

The following figure shows the locations of the safety labels in the latest versions of the imager.



**WARNING:** Keep hands out of the print head lift mechanism indicated by the pinch point warning labels. Failure to do so could result in personal injury.

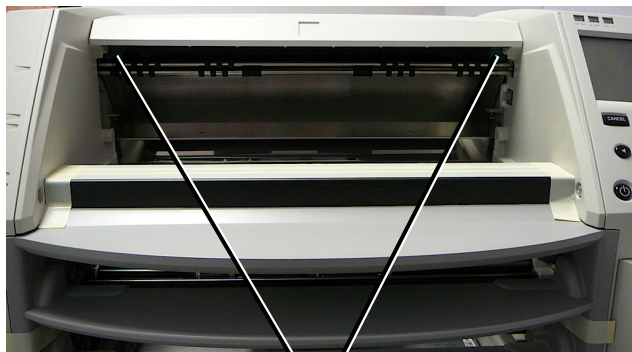
### **Media Supported**

The latest versions of the imager do not support **ChromaVista** color media. Only **DirectVista** grayscale media is supported.

## Opening the Top Cover

The latest versions of the imager do not automatically open the top cover when using the **Open Top Cover** menu option on the Main Menu at the front panel. It must be opened manually.

However, before manually opening the top cover, you should still select the **Open Top Cover** menu option to ensure that the print head is retracted. Then press one of the two green releases shown in the following figure to open the top cover.



Top cover releases

**NOTE:** The top cover is spring-loaded. Place your hand lightly on the top cover before pressing one of the releases to prevent it from opening too quickly.



**WARNING:** Do not attempt to manually defeat the top cover closed sensor that is on the right inside wall of the imager, shown in the following figure. Doing so could result in personal injury.

Top cover closed sensor



## Media ID

- The latest versions of the imager support only the Media ID media authentication system. They do not support reading IDs from barcode labels on the media cassette to authenticate media.
- Unlike with previous imagers that required an external device to be attached to the imager, the Media ID reader is internal to the imager. The Media ID is detected when you insert a media cassette. If the media cassette is successfully authenticated, a confirmation message displays on the front panel.
- Once the Media ID is read, the media cassette can only be used with that imager. You cannot use the cassette with another imager.

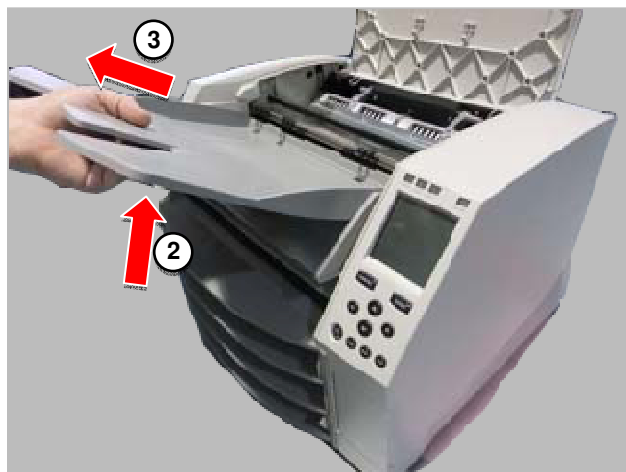
**NOTE:** If the imager does not recognize the Media ID on a cassette, contact Codonics Technical Support. In the latest versions of the imager, media cassette barcodes cannot be entered manually at the front panel.

## Receive Tray

The latest versions of the imager include only one receive tray. Media pulled from any of the supply slots will be placed in this receive tray.

To remove the receive tray:

1. Open the top cover. Refer to "Opening the Top Cover."
2. Lift the front of the receive tray up.
3. Pull the receive tray out away from the imager.



## Print Head Positions

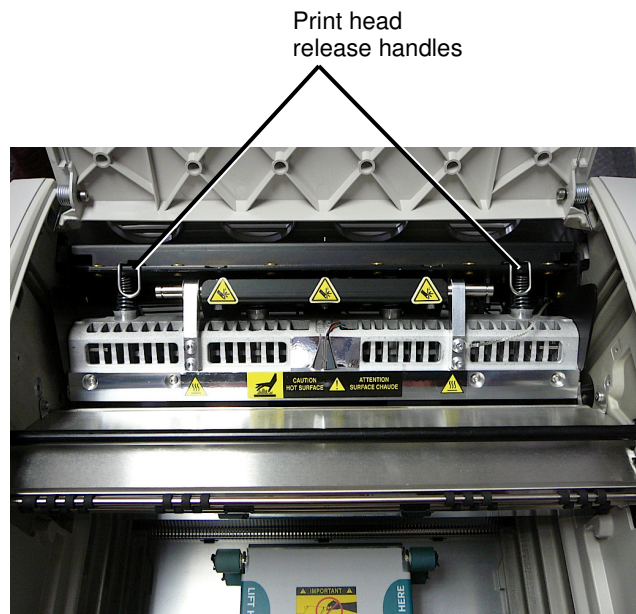
The latest versions of the imager have two print head positions:

- Shipping position, in which the print head is closer to the back of the imager. This should be used prior to shipping the imager to prevent damage to the print head or platen bearings. It should also be used when cleaning the print head or platen, as the position provides more room between these components to make cleaning easier.
- Printing position, in which the print head is positioned closer to the platen, ready for printing.

## Changing the Print Head Position

To change the print head position:

1. If imager power is on, select the **Open Top Cover** menu option to ensure that the print head is retracted and move on to the next step. If imager power is off, move on to the next step.
2. Open the top cover by pressing one of two green releases as shown under “Opening the Top Cover”.
3. Pull up on the two release handles, shown in the following figure, and use the handles to push the print head back to the shipping position or forward to the printing position.



**CAUTION:** Position the print head with care. Do not drop the print head into the printing position. Doing so could cause damage.

4. Lower the release handles to lock the print head into the new position.

## Cleaning the Print Head

Before cleaning the print head, you must manually move it to the shipping position. Refer to the procedure above under “Changing the Print Head Position.”

Otherwise, you can follow the procedure as described in “Cleaning the Print Head and Nosepiece” in the *Horizon Imager User’s Manual*.

The alcohol concentration of the Print Head cleaning pad is 99% IPA.

## Cleaning the Platen

Before cleaning the platen, you must manually move the print head to the shipping position. Refer to the procedure above under “Changing the Print Head Position.”

Also, the latest versions of the imager do not support jogging the platen from the front panel. When cleaning the platen, you have to use your fingers to manually jog the platen so that you can clean its entire surface. Make sure that you clean the areas where you have touched the platen to remove any oil from your fingers.

Otherwise, you can follow the procedure as described in “Cleaning the Platen and Donor Guide Bar” in the *Horizon Imager User’s Manual*.

The alcohol concentration of the Platen cleaning pad is 70% IPA.

## Calibrating Film

The latest versions of the imager do not support internal film calibration. To calibrate film, you have to print a calibration film, use an external densitometer, and enter a calibration adjustment value.

To calibrate the film for a media cassette:

1. Insert the media cassette.

If the Auto Film Calibrate preference setting is set to On, a calibration film is printed automatically. (For more information about the Auto Film Calibrate preference setting, refer to the *Horizon Imager Technical Manual*.)

If the Auto Film Calibrate setting is set to Off, on the front panel navigate to and select the Calibration Print menu option corresponding to the slot in which the cassette is inserted:

Utilities...

Film Calibration...

Cassette n...

Calibration Print

The calibration film includes 16 grayscale blocks with a range of optical densities. The calibration film also includes the slot number to identify the cassette to which it corresponds.

2. Measure the 16 blocks and identify the two blocks that bracket the target density of 1.30 OD.
3. Calculate the “adjusted block” value that would be required to achieve 1.30 OD by applying linear interpolation between the two bracket blocks’ assigned numbers. For example:

Block 10: OD = 1.29

Block 11: OD = 1.36

Block value to achieve 1.30 OD = 10.1 or 10.2

On the front panel, navigate to the Calibration Value menu corresponding to the cassette slot:

Utilities...

Film Calibration...

Cassette n...

Calibration Value...

4. Use the increment and decrement keys on the front panel to enter the adjusted block value from step 3.
5. To save the entry, press the Enter key.

**NOTE:** Once saved, this calibration value will apply only to this cassette. Also, this calibration value will be used regardless of what slot this cassette is inserted into.

### Choosing Not to Calibrate a Media Cassette

You can choose not to calibrate a new media cassette.

If the Auto Film Calibrate setting is set to On, a calibration film will be printed from the cassette:

- To continue with the calibration, enter a calibration adjusted block value, as described in the procedure above.
- To skip the calibration, press the Pause button to take the printer back on line.

If the Auto Film Calibrate setting is set to Off, a calibration film will not be printed and calibration will not be performed unless you perform the procedure above.

If you choose not to calibrate a media cassette, the calibration value from the last calibrated cassette of that media type and size will be used, if one exists. Otherwise, the default calibration value will be used.

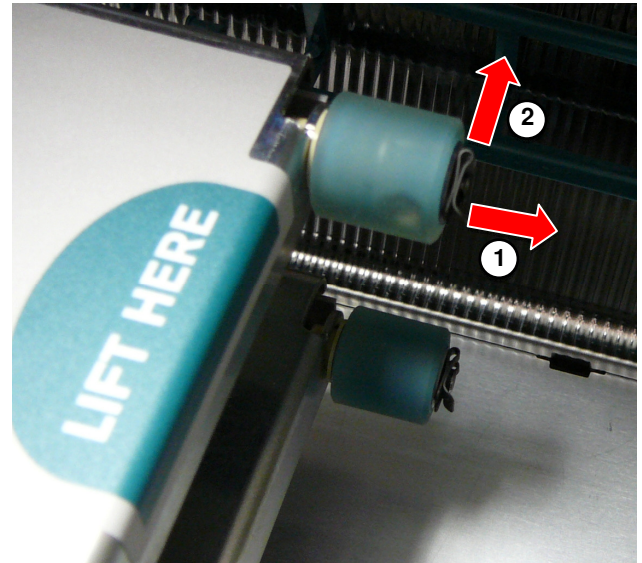
### Replacing the Pick Tires

The pick tires in the latest versions of the imager can be replaced.

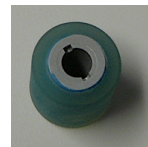
To replace a pick tire:

1. Power down the imager.
2. Open the top cover.

3. Locate the retaining clip that secures the pick tire to the spindle.
4. Lift up on the tab on the top of the clip (1) and slide the clip sideways from (that is, perpendicular to) the spindle (2), as shown in the following figure.



5. Slide the pick tire off of the spindle.
6. On the new pick tire, locate the two notches on one side of the pick tire, shown in the following figure. These notches fit over two small pins on either side of the spindle.



7. Orienting the pick tire with the notched side first, slide the pick tire all the way on to the spindle, making sure you align the notches with the spindle pins.
8. With the clip tab facing away from the pick tire, slide the retaining clip sideways back onto the spindle.
9. Use a cleaning wipe provided with the Platen and Print Head Cleaning kit or use the Horizon Cleaning Cassette to clean the pick tire of any oil from your fingers.

## **Clearing a Sheet Jam**

With the latest versions of the imager, the sheet path through the imager has been simplified, since there is only one receive tray. Other than the simplified path, clearing a sheet jam is the same as with previous versions of the hardware.

## **Troubleshooting**

For the latest versions of the imager, there is a new reason for a sheet jam: A sheet jam can occur if the print head is in the shipping position when attempting to print. To correct this problem, remove the jammed sheet and move the print head to the printing position (see "Changing the Print Head Position").

## **Manufacturing Locations**

Horizon Imagers are manufactured in both the USA and China. Refer to the product label at the rear of the imager to determine the origin of your imager.

## **Technical Support**

If problems occur that are not covered by this Addendum, please contact Codonics Technical Support at any time.

Phone: +1.440.243.1198

Email: [support@codonics.com](mailto:support@codonics.com)

Website: [www.codonics.com](http://www.codonics.com)

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*Get it all with just one call*

**800.444.1198**

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17991 Englewood Drive  
Middleburg Heights, OH 44130  
USA  
+1.440.243.1198  
+1.440.243.1334 Fax Email  
[info@codonics.com](mailto:info@codonics.com)  
[www.codonics.com](http://www.codonics.com)

Codonics (Shanghai) Trading  
Company, Ltd.  
317 Xianxia Rd.  
Building B Unit 1412  
Changning District, Shanghai  
P.R. China, 200051  
Phone: +86.21.62787701  
Fax: +86.21.62787719