



USER MANUAL

D30 Accessories

CORALTEC INC.

User Guide

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1 Horizontal Holder

Horizontal holder is designed to conveniently hold the device under the spray. In order to use the horizontal holder, you have to make a hole with $\frac{1}{4}$ -20 hole thread in a flat horizontal surface and attach the holder to it.

It is recommended to use the extrusion aluminum bars to be able to move the stand in the horizontal direction as well. Figure 1 shows the image of the horizontal stand. There are two screws in the image. Screw 1 and its nut are used to mount the stand on the aluminum extrusion bar or the flat horizontal surface. Screw 2 is inserted at the bottom of the D30 device, where there is a female $\frac{1}{4}$ -20 threaded hole. The nut on screw 1 is used to secure D30 at a desirable height.

In order to install D30, first insert screw 2 inside D30, tighten the nut against the body of D30 to secure it in position and then use Screw 1 to mount the stand on the horizontal surface.

HORIZONTAL HOLDER

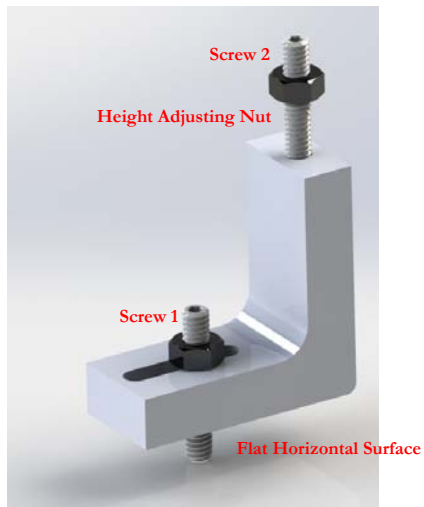


Figure 1 Horizontal Stand

2 Vertical Holder

Vertical holder is designed to conveniently hold the device under the spray. In order to use the vertical holder, you have to make a hole with $\frac{1}{4}$ -20 hole thread in a flat vertical surface and attach the holder to it. It is recommended to use the extrusion aluminum bars to be able to move the stand in the horizontal direction as well. Figure 2 shows the schematic of the vertical stand. One thumb screw and one regular screw are included in the stand set. The thumb screw is inserted at the bottom of D30 and its nut is used to secure it in the desired height. The second screw and its nut is used to mount the stand on the vertical surface or the aluminum extrusion bar.



Figure 2 Vertical Stand

3 Alignment Tool

The device is designed to be durable and robust in order to require minimum amount of maintenance. However, from time to time, the laser system might require alignment as change in environmental temperature, external impact, etc. can affect its alignment. A special tool is required to complete the alignment procedure. It includes a transparent alignment tool part, which resembles the end caps of D30 plus a small wrench that is used to turn the set screw on the laser side to move the laser beam in the channel to ensure that it is centered with respect to the channel at all times. Figure 3 shows the alignment tool part. It is made of transparent plastic so you can see where the laser beam is hitting. There is a mark at the center that you need to make sure that the entire laser beam is inside the mark. Figure 4 shows the proper setting to use the alignment tool. In order to check/adjust the laser alignment, perform the following procedure:

1. Turn off the device.
2. Secure the device on a horizontal surface.
3. Unscrew the cap on the detector side. The detector side is the side where the power button is located.
4. Take the detector out of the channel very carefully. Do not pull the detector from its wires as it may cause detector disconnection. Try to take the



Note: The laser alignment is a very sensitive procedure and it has to be performed with patience and very carefully.

TERMS OF USE

- detector out by pulling its main body using a long-nose plier.
- Once the detector is out, mount the alignment tool onto the device.
 - Turn on the laser. Now the laser beam should be visible on the alignment tool. The laser beam cross section, which is an ellipse, must be horizontal and at the center of the alignment tool. If it is not aligned properly, you need to re-align the laser
 - If the laser requires re-alignment, unscrew the cap on the laser side.
 - Using the small wrench and the three set screws on the laser, try to re-align the laser beam. The laser beam should be positioned carefully on the center of the alignment tool inside the marked area.
 - Once the alignment is complete, put back the laser cap and gradually screw it until it is firmly tight.
 - Check the alignment again to make sure closing the cap has not affected the alignment.
 - Turn off the device and take out the alignment tool.



Warning: Do not let the beam directly enter your eyeball. Always look at the reflection or refraction of the laser beam to avoid eye damage.

TERMS OF USE

12. Put back the detector. Make sure it is firmly inside and that you have pushed it all the way inside the channel.
13. Screw back the detector cap very carefully. Do not move the device until the cap is firmly screwed in place.
14. The device is now ready to use.


 **Warning:** Do not overtighten the setscrews since it may damage the laser module body.



Figure 3 Alignment Tool

TERMS OF USE

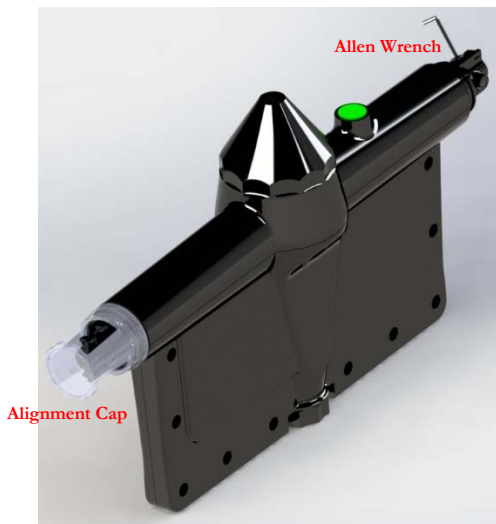


Figure 4 Alignment Setup

4 TERMS OF USE, WARRANTY & LIABILITY WAIVER

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