



## Ultraviolet Inkjet Mark on Bottle Cap Scanning Procedure

You may find that scanning the ultraviolet inkjet mark on the shiny bottle caps with your UV optic is not the effortless 'point and shoot' scanning that traditional bar code readers have provided in the past. Scanning the UV inkjet mark on bottle caps with your UV scanner will be more successful and efficient if you follow the easy step-by-step instructions below.

For optimal scan results, set your bar code reader to print weight #2 by scanning the bar code below. Print weight 2 has consistently been the easiest to use, by giving the highest number of scans during testing in our lab.



Print Weight 2

### To scan a UV Fluorescing ink barcode on a shiny, colored bottle cap:

1. Hold your reader in a comfortable position in your hand.
2. Depress the trigger on the reader
3. Slowly approach the target barcode with the front of the optic.
4. As you approach the target with the reader, make sure the reader can clearly see the barcode in its entirety on the top of the bottle cap.
5. Move the reader closer into the target barcode so that the end of the optic is about a half inch above the bottle cap. The optic should be almost perpendicular to the bottle cap. See **Figure 1**.
6. With the end of the optic  $\frac{1}{2}$  inch from the target, pause for a moment. It takes a second or two for the reader to understand that it is looking at a fluorescing ink barcode target. Hold the reader still while pausing, to let it find the target and identify it. After a second or two, the reader should beep once, indicating a successful scan. In some cases, it may take a little longer. If the reader does **not** beep, then tilt the reader forward such that the angle of the mouth of the optic is at about a 45 degree angle to the top of the bottle cap. See **Figure 2**. The handle of the reader should be moved slightly upward to create the angle. Use a slight rolling motion to tilt the reader to the bottle cap. Try to roll as far as a 45 degree angle. Again, pause to wait for at least 2 seconds to allow the reader to identify the target.

**Note:** Tilting the reader downward does not work as well as tilting it upward.

If the reader still does not beep, release the trigger, move it away from the target, and start from step 1, going through the process again.

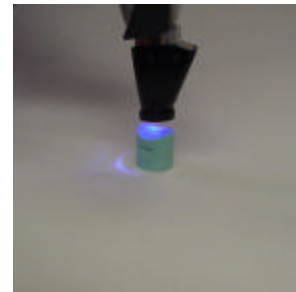


Figure 1



Figure 2



**Note:** In some cases, while learning to scan a UV barcode, it may be necessary to pick the bottle cap up in your hand and bring it to the reader to get a flavor for how to determine the relationship between the optic, and the bottle cap with the target.

### To scan a UV Fluorescing ink barcode on a flat topped black bottle cap:

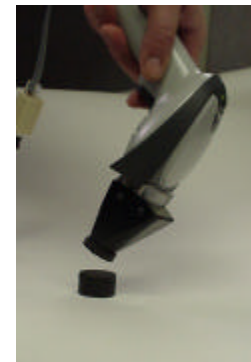
**Note:** The key difference between the two bottle caps is that the reader reads the black bottle cap best when the end of the optic is about 1 inch away from the cap.

1. Hold your reader in a comfortable position in your hand.
2. Depress the trigger on the reader
3. Slowly approach the target with the front of the optic.
4. As you approach the target with the reader, make sure the reader can clearly see the barcode in its entirety on the top of the bottle cap.
5. Move the reader into the target so that the end of the optic is about 1 inch away from the bottle cap. The optic should be almost perpendicular to the bottle cap. See **Figure 3**.



**Figure 3**

6. With the end of the optic about an inch from the target, pause for a count of about 1 - 2 seconds. It takes a moment for the reader to understand that it is looking at a fluorescing barcode target. Hold the reader perfectly still while pausing, to let it find the target and identify it. After a second or two, the reader should beep once, indicating a successful scan. In some cases, it may take a little longer. If the reader does not beep, then tilt the handle of the reader upward such that the angle of the optic is at about a 45 degree angle to the bottle cap. See **Figure 4**. The handle of the reader should be moved upward to create the angle. Use a slight rolling motion to create the tilt of the reader to the bottle cap. Try to roll as far as a 45 degree angle past the flat perpendicular portion that you started with. Again, wait for a second or two to allow the reader to identify the target, and read it.



**Figure 4**

### Quick Instructions For Reading either Bottle Cap

1. **pull** the trigger
2. **move** the scanner to the target
3. **pause** the scanner about ½" (for shiny caps), or 1" (for black caps) from the target.
4. **hold still** for a second or two

The reader should **beep** to indicate a good read

5. if, after a second or two, the reader has not beeped, **rotate** the handle of the reader upward such that the optic is at almost 45 degrees to the target
6. as before, **pause**, and give the reader a few moments to identify the target, and read it

**WARNING:** Never look directly into the optic while the trigger is depressed. Due to the use of near UV light, it may cause temporary blindness, and short term damage to the eyes if viewed for a moderate period of time. Always have the reader pointed away from yourself and others when you depress the trigger.