

## J23 Target Practice Tips and Troubleshooting

### Software

This technology requires Adobe Flash Player 10. You may download it here if you don't have it.

### Activate camera

Make sure your computer camera is turned on. J23 Target Practice doesn't work without a webcam.

### Lighting

Use under normal lighting conditions. Direct or bright lights like fluorescents can create glare and obscure markers for camera detection and you will miss the magic.

### Movement of marker tag

Hold the marker reasonably steady however some movement is encouraged. Quick, jerky motions limit marker tag detection by your web cam and this will vary depending on how good your camera is.

### Paper tag

Ensure that paper is held flat. To assist you can rest it on top of a magazine or book or lay flat on your desk. Make sure the marker tag is not bent or folded. Markers with creases can impair their detection.

### Camera variations

Depending on your web camera resolution, zoom and tilt, hold the marker tag 30cm to 100cm away from your camera with an angle of about 45 degrees and facing directly to the camera. Holding the marker tag at an obscure angle will make it difficult for the camera to detect. Marker tags that are further away are more difficult to detect.

### Camera issues

If you have clicked the "allow access" button and still don't see a video feed:

- Right click on the applet.
- Select "settings".
- Click on the camera tab.
- Make sure the correct camera is selected (usually USB Camera).

### Further problems

If you are still experiencing any issues with detection, please close and restart the application. Also, make sure you meet the minimum operating-system requirements (Leopard 10.5 or higher for Mac users, Windows XP or higher for PC users).

### Operating systems

If J23 Target Practice for some strange reason doesn't work in one operating system, try the same in another one if you have it.

### Mac users

You may have to activate your webcam using your "flash player settings". Right click the pop-up window on the middle of the screen, select the webcam icon and choose USB video from the dropdown.