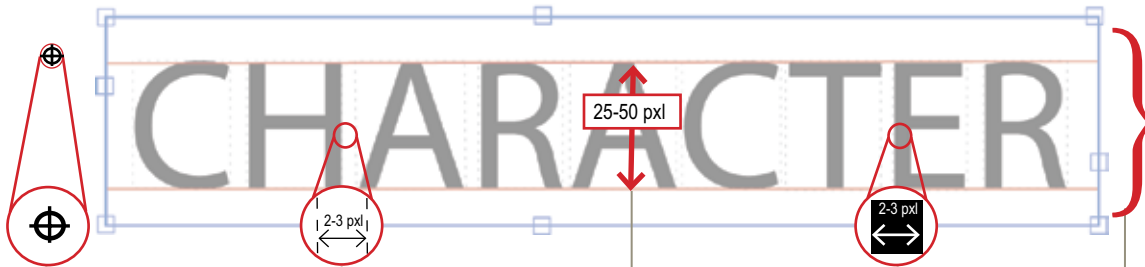


A robust OCR/OCV inspection is accurate, fast and repeatable. It is dependent on the following factors:

**Print Quality:** Clear, high quality print will boost the reliability and repeatability of inspections. Character height, spacing and stroke are key factors in print quality (see guidelines below). The printing should also be free of smudges, and elongated or deformed strokes.

**Positioning ROI:** Inspection time is extremely dependent on the user-drawn search ROI. The tighter the ROI, the faster and more accurate the inspection. While some degree of rotation is allowed, precise and repeatable positioning is preferable to using location tools.

**Improve your inspection by following these guidelines:**



**Fiducial**

Insert a robust fiducial or fixed reference point to accurately locate the beginning of an inspection.

**Spacing**

Maintain an ideal spacing between characters of 2-3 pixels.

- ↑ Character Spacing
- ↑ Robust Inspection
- ↓ Inspection Speed

**Height**

Maintain an ideal character height of 25-50 pixels.

- ↑ Character Spacing
- ↑ Robust Inspection
- ↓ Inspection Speed

**Stroke**

Maintain an ideal character stroke of 2-3 pixels in width.

- ↑ Character Spacing
- ↑ Robust Inspection
- ↓ Inspection Speed

**ROI**

Tighten the Region of Interest (ROI) to about 1/2 of character height around the character string. This improves inspection speed.



**Hints to Boost Inspection Speed**

- Read a single line of text at a time.
- Avoid the use of spaces; they are not recognized.
- Use capitals whenever possible.
- Avoid the use of punctuation.
- Use a single font type.
- Limit the number of character patterns in font library. Each character will add between 50-100 microseconds to an inspection.