



Print Quality (PQ) measurement with the
Personal IAS is **Quick** and **Comprehensive**



Begin by removing the Personal IAS from its convenient carrying case.



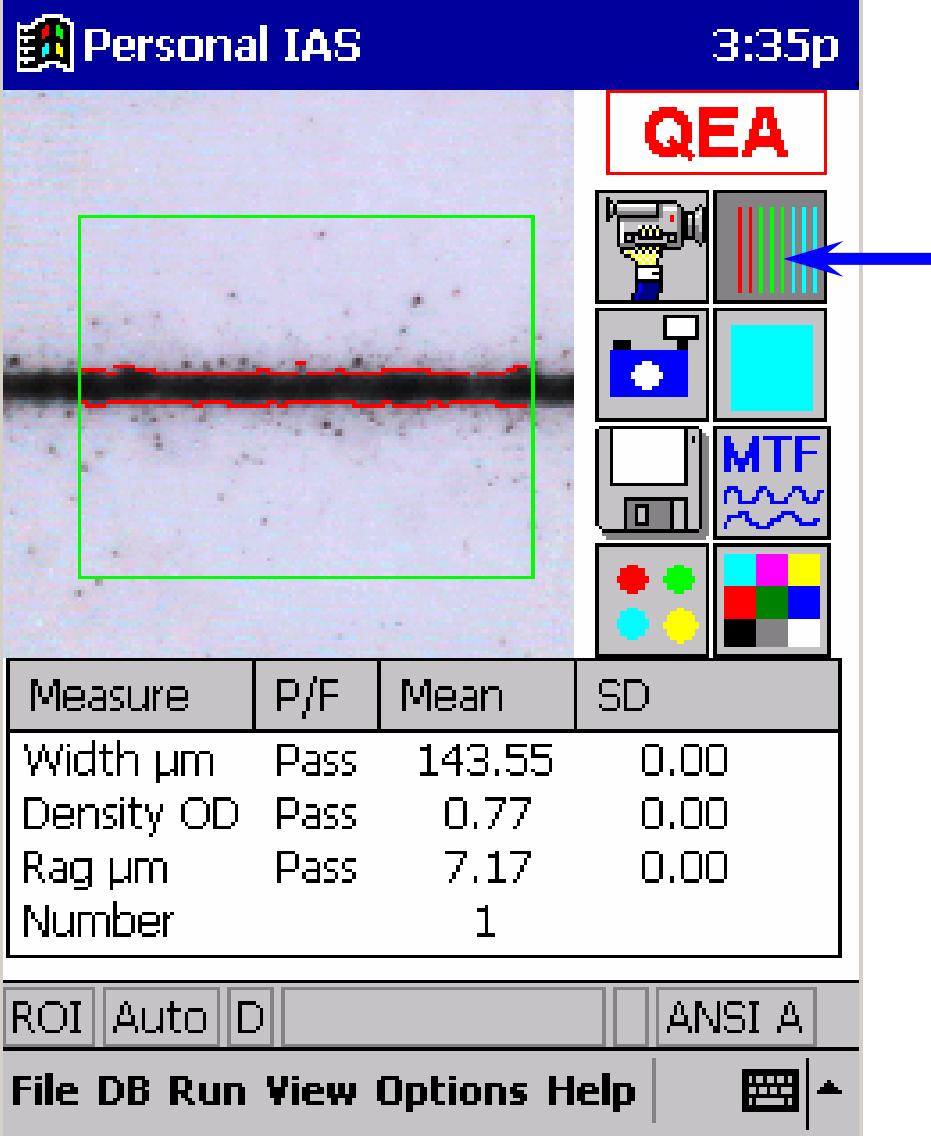
The Personal IAS calibrates itself from a built-in target, so simply turn it on and start making measurements.



The Personal IAS has a **comprehensive** set of PQ measurements. Let's start by measuring the properties of printed lines.



Position the Personal IAS over the area to be measured and click the line measurement button.



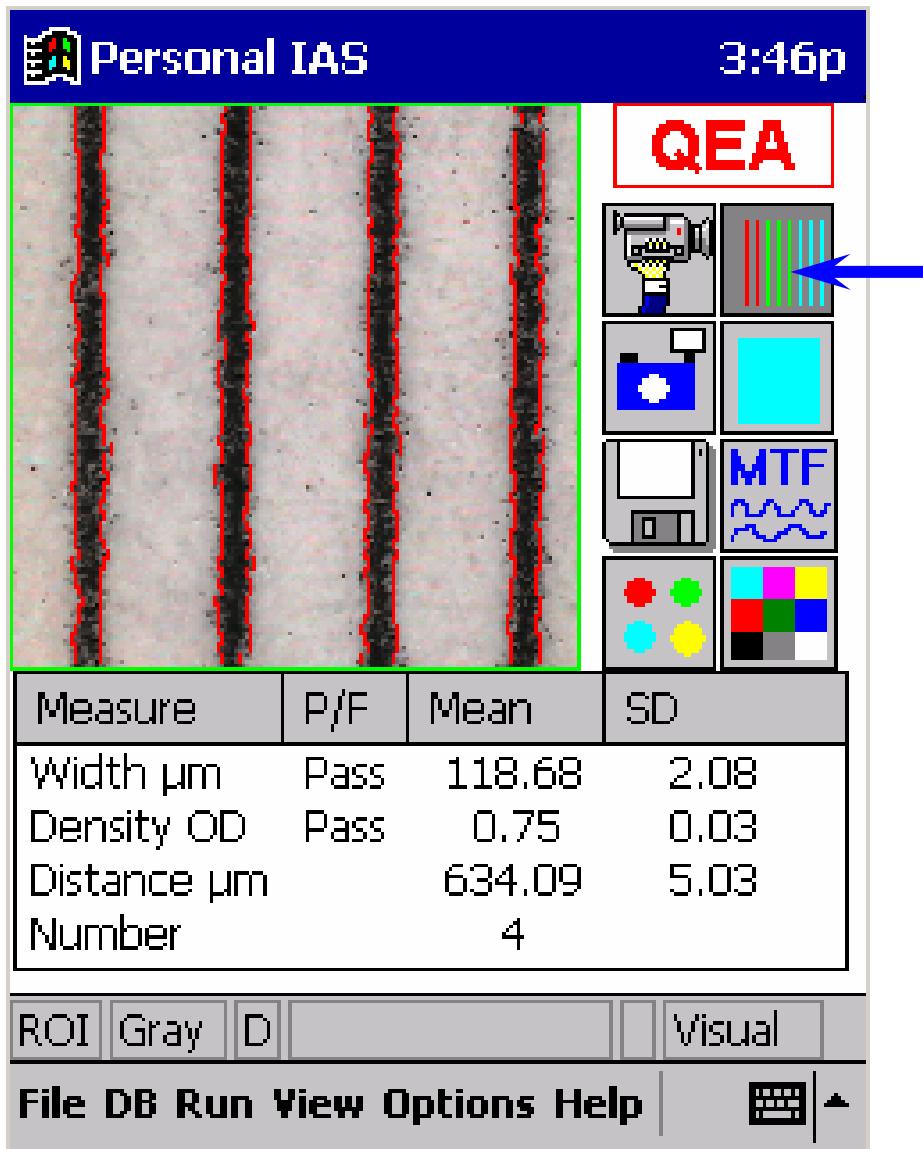
Select the Region Of Interest (ROI). Tap the **line** button. The properties of the line (e.g. width) will be displayed in seconds.



For diagnostic work, it is often useful to be able to measure the spacing between lines which are laid out in a pattern.



Position the Personal IAS over the area to be measured and tap the **line** button.



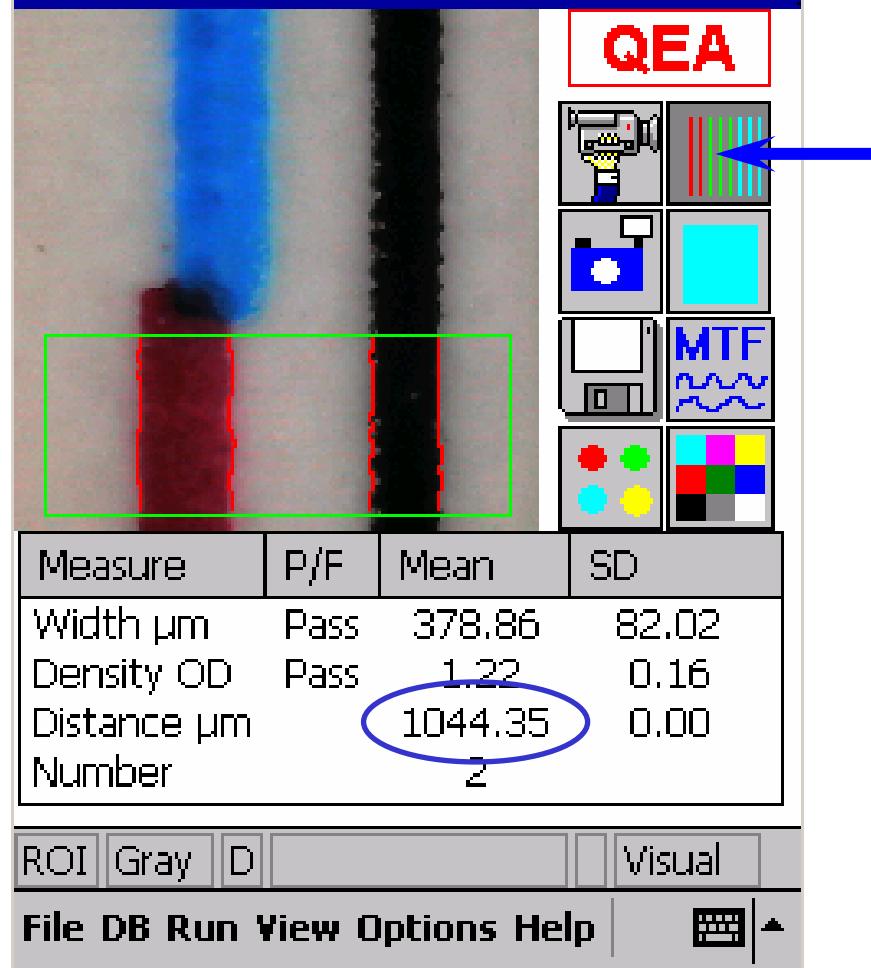
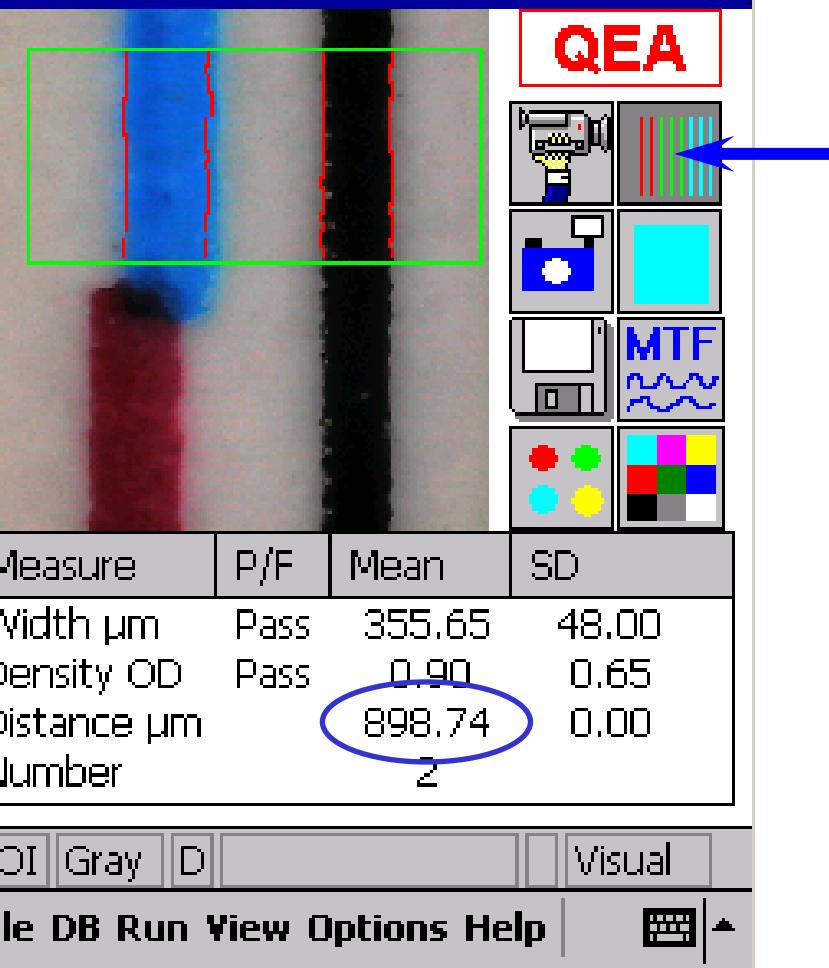
Shortly after the **line** button is tapped, the average spacing between lines is displayed (e.g. 634µm).



The mis-registration between different colors (CMYK) in process work can be measured.



In this example, the mis-register between the cyan and magenta colors will be computed.



$$899 - 1044 = -145 \mu\text{m}$$

The mis-registration is difference between the cyan-black and the magenta-black distance.



The Personal IAS can be used to measure dot and halftone quality.

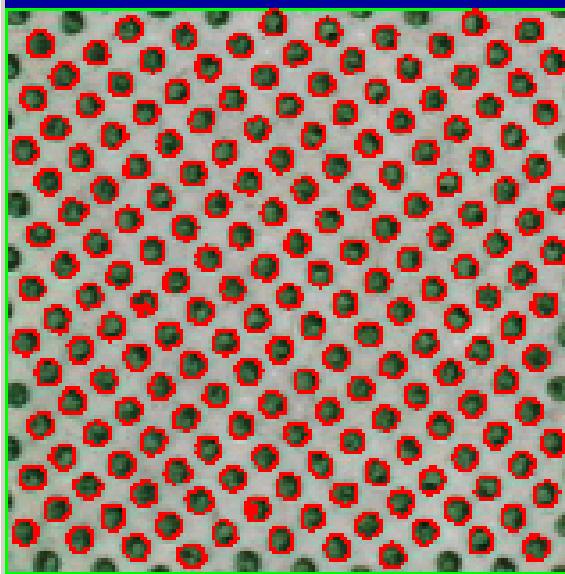


Position the Personal IAS on the sample
and tap the Dot button.

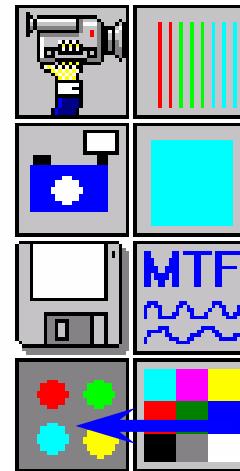


Personal IAS

4:31p



QEA



Measure	P/F	Mean	SD
Dot%		32.98	
Lines/in		149.20	3.12
Screen Angle		52.24	0.85
Number		191	

ROI Gray D Visual

File Run View Options Help



Many dot/halftone properties are computed including dot%, diameter, screen angle, etc.



Area uniformity such as mottle, graininess and ink coalescence can be quantified.



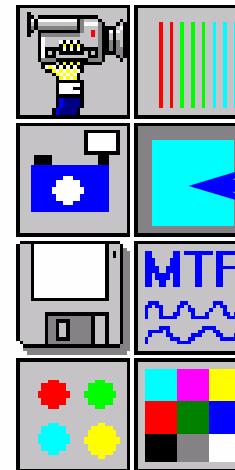
Position the Personal IAS on the sample
and tap the **Large Area** button.



Personal IAS

5:15p

QEA



Measurement	P/F	Value
Density OD	Pass	1.67
Reflectance %R	Pass	2.14
Grain %R	Pass	0.96
Mottle %R	Pass	0.41

ROI Gray Visual

File DB Run View Options Help



Here the **mottle** value is being used to quantify a problem known as ink coalescence.



Data can be transferred to a PC by several methods including Excel link, Access database, and ActiveSync.

PERSONAL IAS

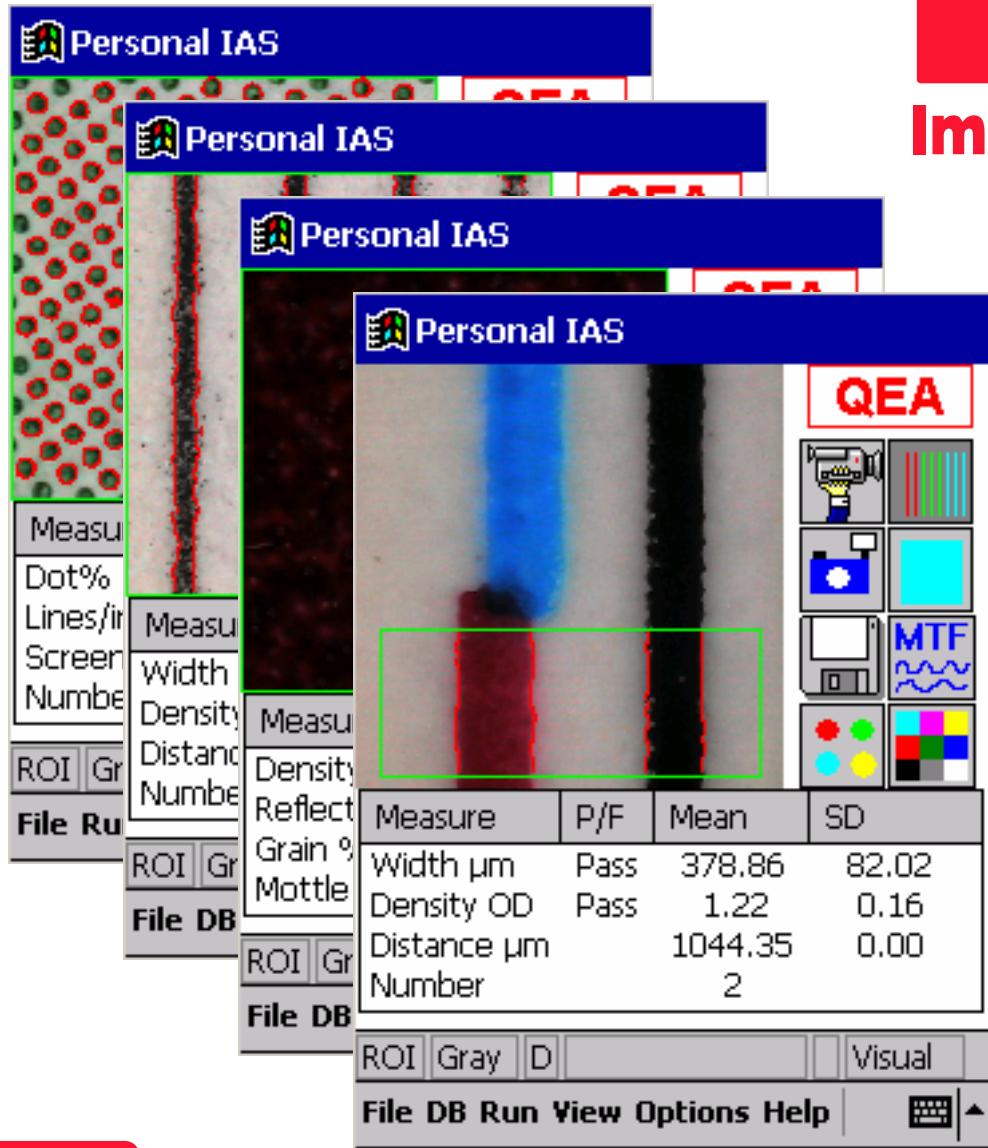


Image Analysis System

- The Personal IAS is both **Quick** and **Comprehensive**
- It makes measurements in seconds
- Wide range of PQ measurements
 - Dots, Line screen
 - Lines, registration
 - Mottle, graininess