

# EPG

## KeyColor Color Measurement & Defect Detection Technology

### Read an Entire Colorbar on Every Impression

KeyColor ColorInSpec is the only unified system that delivers color measurement data on press to the ink desk in real time and simultaneously provides defect detection data to the press operator. The ultimate unified closed-loop color-control system is now available for 14 to 72 inch sheetfed and web presses.

The industry's most comprehensive tool, ColorInSpec reads an entire color bar on every impression while identifying and trending print defects on the full sheet. This superior technology integrates not only with EPG's advanced remote ink control systems, but with most other manufacturers' systems.



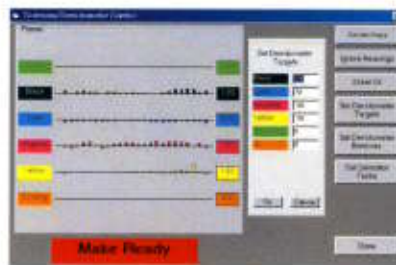
### ColorInSpec

On-press KeyColor ColorInSpec monitors every impression and identifies problems before they become waste. It responds when color is drifting, helping to reduce run waste and improving output quality. ColorInSpec can compare up to 300 regions of interest; press operators assign tolerances during job setup. Variations in color and defects are displayed for the operators who determine how to correct problems.

KeyColor ColorInSpec features Apollo Systems, Inc. – a superior technology whose legacy of quality is well known in the printing industry for inspection and color analysis. Apollo products are used by the most demanding clients in securities and currency printing, where color-perfect, defect-free finished products are required.

### ColorSpec

KeyColor ColorSpec, without defect detection, integrates with EPG's and other manufacturers' remote ink control systems to accomplish color measurement corrections on presses in real time. Densities of an entire colorbar are read on every impression, regardless of register, from the first identifiable black impression. Remote ink control technology takes color density data, calculates ink zone coverage, and automatically moves ink keys as necessary. In addition, ColorSpec averages, trends and predicts ink density to achieve targets without the up and down ink "bounce" prevalent on other systems. At any time, ColorSpec can be upgraded to include defect detection to alert operators as selected print regions of interest approach out-of-tolerance conditions.



### Markedly different from alternative systems

At the core of KeyColor ColorInSpec and ColorSpec is a powerful, high-speed Sun Solaris computer, which, combined with superior processing technology, delivers a faster and larger acquisition of print variation data. Processing the entire colorbar on every impression greatly accelerates makeready. Other systems typically scan each ink zone when traversing a colorbar. Paper and time can be wasted during this traverse period, particularly during makeready when multiple pulls are often necessary before proper color balance is achieved. Improved production consistency and higher quality end products should result in greater client loyalty and new business.