

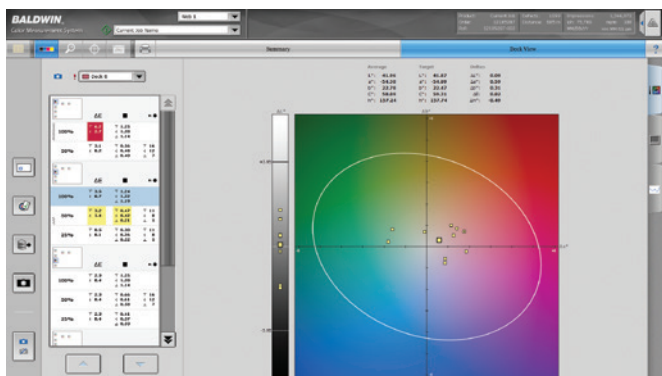


## Achieve absolute color consistency press-to-press, shift-to-shift and plant-to-plant

Color Measurement with DeltaCam delivers affordable, accurate inline spectral measurement on film, paper or board—reducing waste and ensuring all printed products are within your customers' color specifications.

Baldwin Vision Systems' Color Measurement with DeltaCam makes advanced, inline spectral measurement affordable. For about half the cost of other inline systems, you can utilize accurate, automated L\*a\*b\* measurement on a wide variety of substrates.

Reduce time and waste while confidently maintaining color throughout the roll, without the need to wait for a roll change to measure with a handheld spectrophotometer. CI flexo, inline flexo, and gravure press operators can spot problems before going out of spec, make corrections quickly and eliminate waste—dramatically reducing customer complaints and rebates.



The system's easy-to-use operator user interface requires little training.

### Features and Benefits

- Inline spectral color measurement using a true 31-channel spectrophotometer
- Quickly detect and analyze colorimetric and density variations from standard print targets on the substrate.
- Strict adherence to ISO standards
- Supports M1 and M0 measurement conditions
- Spectral measurement with 3nm native resolution (400nm to 700nm)
- Easy-to-use operator user interface requires little training
- LED illumination provides stable output, greatly extended life, and is easily calibrated—creating ideal conditions for precise color measurement.
- Advanced optical design delivers low stray light, ensuring high repeatability.
- Calculates L\*a\*b\*, ΔE, Density, and ΔDensity at press speeds up to 610 m/min (2000 ft/min), and on web widths up to 2896mm (114 inches).
- DeltaCam automatically calibrates itself over BCRA reference tiles to ensure that it is measuring with optimal accuracy, all the time.

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## Achieve absolute color consistency press-to-press, shift-to-shift and plant-to-plant

### Features and Benefits (continued)

- Version available to measure color from register wedge marks, saving the high cost of engraving custom color patches
- The patented substrate stabilizer increases color measurement accuracy on the widest range of packaging substrates—by stabilizing the substrate during measurement, and utilizing ISO-conforming black & white reference tiles for transparent and transmissive materials.
- The substrate stabilizer enables precise measurement of substrate opacity.
- Costly periodic maintenance and service repairs are eliminated, as the system recalibrates automatically.
- Rare instances that require DeltaCam to be manually maintained or calibrated can be performed on-site by a regular maintenance person.
- The highly adaptive and upgradeable system has been designed for very easy installation, maintenance, and serviceability.
- Excellent measurement agreement with the most widely used handheld instruments. With the web stabilizer, agreement of less than  $1\Delta E_{00}$  can be achieved.
- Store and quickly recall commonly-run jobs, set up next jobs remotely, set up the next job while the current job is running.
- Reduce makeready time and waste, and confidently maintain production without the need to stop the press for handheld measurements.
- DeltaCam technology uses a spatial camera to quickly locate and maintain tracking of the target patches as the substrate is moving. This allows DeltaCam to be installed as a stand-alone product, not requiring connection to a 100% or web viewing system.
- Color management and reporting capabilities are available when DeltaCam is combined with BALDWIN Vision Systems' Color-Track™.
- Delivers absolute color consistency press-to-press, shift-to-shift, and plant-to-plant.
- Provides the capability to ensure that no out-of-spec product gets to your customers.
- Provides a new competitive advantage to attract brand owners and print buyers.
- Meet or exceed brand owner expectations.

### Specifications

**Scanner Sensor Type:** Spectrophotometer

**Measurement Technology:** Spectral reflectance measurement compliant with ISO 13655:2009

**Measurement Geometry:**  $45^\circ/0^\circ$  measurement geometry conforms to ISO 5-4

**Measurement Conditions Supported:** M0 and M1

**Measurement Apertures:** 2mm and 3mm diameter, based on application

**Spectral Range:** 400 to 700 nm

**Light Source:** LED

**Colorimetric Measurements:**  $L^*a^*b^*C^*h$ ,  $\Delta E$  formulas:  $\Delta E_{ab}$  ( $\Delta E_{76}$ ),  $\Delta E_{94}$ ,  $\Delta E_{2000}$ ,  $\Delta E_{CMC}$

**Densitometric Measurements:** Density Standards, Status T, Status E, and DIN

**Calibration:** Automatic on integrated white reference

**Illumination/Observer:** Illuminant types [D50, D65, A & C.] and standard observers [ $2^\circ$ ,  $10^\circ$ ]

**Density Filter:** DIN 16536, ISO/ANSI T, ISO E

**Tone Support:** Solids (100%) and tones from 5% to 99%

**Maximum Substrate Speed:** 610 m/min (2000 fpm)

**Maximum Measuring Frequency:** 5 measurements/sec

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