The full spectrum of colors
Color measurement systems

An outstanding feature of the Prinect® color measurement systems is the symbiosis of spectral measuring technology and ink zone motor control on the basis of colorimetric values. This is a Heidelberg® innovation that makes it possible to obtain the shade of a sample measurement at the press without the need for intermediate steps and density values.

In addition to measuring accuracy, Prinect color measurement systems also offer a high level of automation. For users, this means that the entire process from preinking all the way through to the run can be accomplished with no interruptions. Prinect Inpress Control will already have found the paper white and the print control strips, precisely set the register, and controlled the ink according to requirements – fully automatically, without pulling sheets or intervention by the operator, and at top press speed.

Manual intervention in the online measurement systems outside the press is also kept to a minimum. The measuring head of the Prinect Axis Control® is therefore already in the right place before the first measurement. It recognizes the print control strip and tracks it throughout the process, even if the sheet is not lying perfectly straight on the measuring table.

The 50 million spectral measured values returned by Prinect Image Control® provide certainty for packaging printers who want to make sure that every repeat looks the same or quickly and reliably adjust the print to the proof. Integration in the Prinect workflow means that even complex operations are automated to a large extent. Prepress sends the positions of areas, control elements, and pictures to the system so that the printer can finish up faster. In turn, Prinect Image Control sends CIEL*a*b*, density, and tonal values back to prepress, where they are used to adapt characteristic curves and ICC profiles. This ensures a stable printing process at all times.

Anyone still using hand-held densitometers will find Prinect Easy Control a quick way to get started with precision spectrophotometry. Once the measuring head is positioned beside the print control strips, it takes just a few seconds until the sheet is measured and the ink zone motors are correctly set. Pantone® and HKS archives are also included, as is the interface to the Analyze Point for generating comprehensive color reports.

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Technical data

Speedmaster presses	Press console	Easy Control	Axis Control	Inpress Control 3	Image Control 4
XL 75, XL 106	Prinect Press Center XL 3	–	•	•	•
CX 75 F-size, CX 92, CX 104, SX 102-P	Prinect Press Center XL 3	•	•	•	•
SX 52, SX 74, CX 75 C-size	Prinect Press Center 3	•	–	–	•
Location of the color measurement system					
Integrated in the Press Console		•	•		
Built-in the press with external handheld device				•	
Separate console with connection for up to 4 presses					•
Print Control Strips					
Micro Strips 3.25 mm (W) × 4 mm (H) field size		•	•	•	•
Auto Tracking and setup assistant		–	•	Not required	•
Automized position detection		–	•	•	•
Mini Spots		–	–	–	•
Special Applications					
Measuring and regulation of Opaque White		–	–	–	•
Substitution of the print control strip by CIP4-PPF data depending on layout (special application in packaging printing)		–	–	–	•
Full sheet image measurement, 50 Mio. CIELab values		–	–	–	•
Adaptation of print to proof (Option Proof Match)		–	–	–	○
200 dpi Inspection for defects in the printed image		–	–	–	○
Measuring speed		up to 135 mm/sec.	200 mm/sec.	Max. press speed	200 mm/sec.
Illuminant					
Maintenance free LED		•	•	Hand-held device	•
Measurement conditions according to ISO 13655:2017		M1, M2, M3	M1, M2, M3	Hand-held device: M0, M1, M2, M3 Measuring traverse inline: M3	Single measuring device: M1, M2, M3 Image measuring device: M2
Electronic Flash				•	
Vacuum paper hold		–	•	Not required	•
Netprofiler Spectral Calibration		○	○	○	○
Workflow Integration					
Analyze Point Quality Reports		•	•	•	•
Export of spectral data to 3rd party QA software via Prinect API or Image Control Color Interface		•	•	•[1]	•
Central Color Database in Prinect Production Manager					
User definable, unlimited storage of colors		•	•	•	•
Pre-installed and released Pantone and HKS color archives		•	•	•	•
CxF import and export		•	•	•	•

○ Optional   • Available   – Not available   [1] No G7 data