

# The full spectrum of colors. Color measurement systems.

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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 finds the paper white and the print control strip, adjusts the register precisely and regulates the ink according to specifications – 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.

Anyone still using handheld 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.

All color measurement systems are connected to the Prinect Production Manager via Instant Gate from the Prinect Press Center 3 and XL 3 / XL 4 and use the functions of the central color database or color library, such as the Pantone® and HKS spot color archives. The Analyze Point function in Prinect Production Manager also provides extensive color reports from the color measurement systems.

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<b>Speedmaster presses</b>	<b>Press control station</b>	<b>Prinect Easy Control</b>	<b>Prinect Axis Control</b>	<b>Prinect Inpress Control 3</b>
XL 106	Prinect Press Center XL 4	—	•	•
XL 75	Prinect Press Center XL 3	—	•	•
CX 75 F format, CX 92, CX 104, SX 102-P	Prinect Press Center XL 3	•	•	•
SX 52, SX 74, CX 75 C format	Prinect Press Center 3	•	—	—
<b>Location of the color measurement system</b>				
Integrated in the machine control station (online)		•	•	
Built in the press with additional handheld device (inline)				•
<b>Print control strips</b>				
Micro strips 3.25 mm × 4 mm patch size		•	•	•
Automated position detection on the sheet		—	•	•
Auto tracking		—	•	not required
Makeready assistant		•	•	automated
<b>Measuring speed</b>				
		up to 135 mm/sec.	200 mm/sec.	max. printing speed
<b>Illumination</b>				
Maintenance-free LED		•	•	handheld device
Measurement conditions according to ISO 13655:2017		M0, M1, M2, M3	M1, M2, M3	handheld device: M0, M1, M2, M3 Measuring cross bar inline: M3
Flash lamp		—	—	•
<b>Vacuum suction</b>				
		—	•	not required
<b>Netprofiler spectral calibration</b>				
Workflow integration		◦	◦	◦
Analyze Point quality reports		•	•	•
Transfer of spectral data to third-party evaluation software via Prinect API		•	•	◦ <sup>1</sup>
<b>Central color database or color library in the Prinect Production Manager</b>				
User-definable, unlimited storage		•	•	•
Pre-installed and enabled Pantone® and HKS spot color archive		•	•	•
CxF import and export		•	•	•

◦ Option • Standard — Not available <sup>1</sup> No G7

Technical data subject to job, consumables, substrate, and possibly other factors.