CHNSpec

ExDrive

Auto Scan • Precise Measurement Auto Scanning spectrophotometer

Printing Color Quality Control



ExDrive is a track spectrodensitometer launched by CHNSpec, designed specifically for color measurement and quality control requirements in the printing industry.

Adopting automatic track scanning technology, the instrument can continuously measure multiple color patches along the printing control strip, quickly acquiring ink density, spectrum and color data of each ink zone. It provides reliable measurement basis for printing quality judgment and ink adjustment.

Combined with compatible printing quality management software, it further enables color deviation analysis, printing quality evaluation and ink zone adjustment guidance. It helps printing enterprises improve production efficiency, optimize color consistency and reduce printing material waste.

Six Core Advantages

01 Track Scanning, Higher Inspection Efficiency

Automatic track scanning at a speed of up to 100 mm/s. It continuously measures multiple color patches on control strips and eliminates manual spot-by-spot testing.

02 Multi-parameter Measurement

Supports spectrum data, Lab color values, ink density and other parameters. It provides data support for color difference analysis, dot gain (TVI), gray balance and other evaluations.

03 Support for Multiple Measurement Conditions

Compatible with M0, M1, M2 measurement modes, adapting to different printing materials and application scenarios.

04 Ink Zone Data Detection for Ink Adjustment Assistance

Scan control strips to obtain color and density data of each ink zone. The software identifies deviations to offer references for press operators to adjust ink, reducing repeated test printing.

05 Equipped with Color Management Software

Comes with third-party printing quality management software for data analysis, standard comparison, quality judgment and report generation.

06 Timely Deviation Correction to Reduce Waste

Quickly detect color deviations, shorten make-ready time, reduce paper waste and ink consumption, and improve color consistency and quality stability.

Application Fields



Color Box Packaging Printing



Tobacco Package Printing



Commercial Offset Printing



Large Printing Groups



Label Printing



Universities and Research Institutes

Technical Parameters

Model	ExDrive
Measurement Geometry	45° /0° Ring Illumination Optical System
Spectral Range	400 - 700 nm, 10 nm interval
Density Range	0-3.0
Spectral Reflectance	0 ~ 150%
Measuring Aperture	3mm
Minimum Patch Size	3mm
Light Source	LED light source provides M0, M1 and M2 measurement conditions in accordance with ISO 13655.
Measurement Speed	100mm/s
Data Interface	USB2.0
Repeatability*	White Plate: Max ΔE 0.15
Density Repeatability	0.01D
Inter-instrument Agreement	Average: 0.30 ΔE*ab
Single Scan	One scan available for each mode: M0, M1 or M2
Display	3.5-inch LCD Screen
Dimensions (mm)	Approx. 1212*232*95.4
Weight	Approx. 12 kg

* Standard deviation of 30 measurements on white plate at 5-second intervals after white calibration