



KONICA MINOLTA

AccurioPress IQ-501

AUTOMATIC COLOR AND IMAGE CONTROL
INTELLIGENT QUALITY OPTIMIZER



DELIVERS HIGH QUALITY PRINTS

REDUCING TIME AND WASTE

INTELLIGENT QUALITY OPTIMIZER IQ-501

Our new IQ-501 Intelligent Quality Optimizer takes color consistency and registration accuracy to the next level. With highly automated image registration and color control, a closed-loop system that constantly monitors and adjusts printed output, and automated color calibration and profiling, IQ-501 Intelligent Quality Optimizer delivers streamlined operator time, reduced print waste, and industry-leading productivity!

Major Functions & Features



AUTOMATED COLOR AND REGISTRATION ADJUSTMENT BEFORE THE FIRST SHEET IS PRINTED

What used to be manual processes to control density, tone, color, and registration values have become as simple as the push of a button with IQ-501 Intelligent Quality Optimizer, reducing operator time and wasted output.



EXCELLENT PRINT QUALITY FROM EVEN YOUR NEWEST PRESS OPERATORS

IQ-501 Intelligent Quality Optimizer ensures that even your less experienced press operators will be able to produce precisely registered, calibrated, and profiled color prints, on the first run and on every run. IQ-501 is your key to minimizing labor costs without compromising the print quality your customers demand.



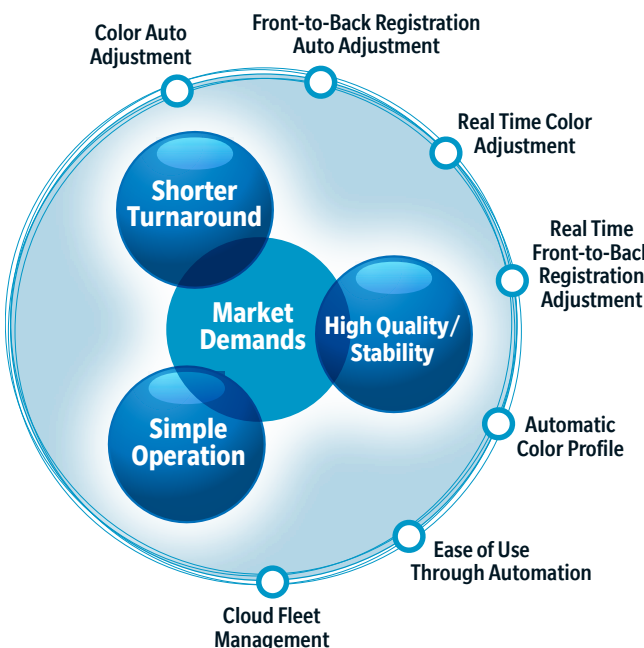
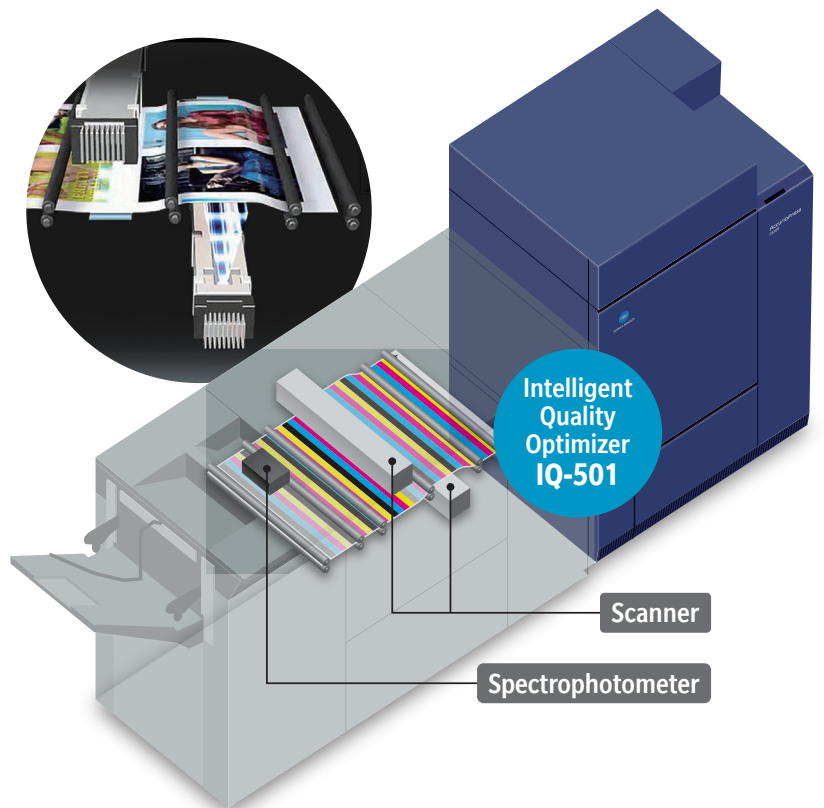
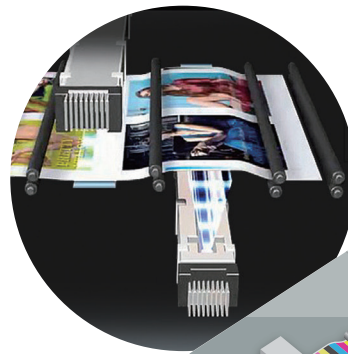
REAL-TIME COLOR AND REGISTRATION ADJUSTMENT

Continuous monitoring and closed-loop, automated process controls ensure that every print is checked and on-the-fly adjustments are made to ensure only the highest-quality color and registration results for you and your customers.



ACCURIOPRO CLOUD EYE FLEET CONNECTIVITY

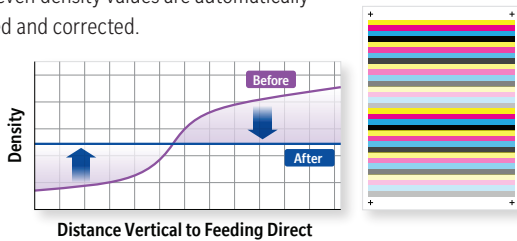
IQ-501 Intelligent Quality Optimizer works seamlessly with AccurioPro Cloud Eye, enabling consistent registration, calibration and profiling among a fleet of IQ-501 equipped presses.



TIME SAVING ACCURATE AUTOMATIC ADJUSTMENTS

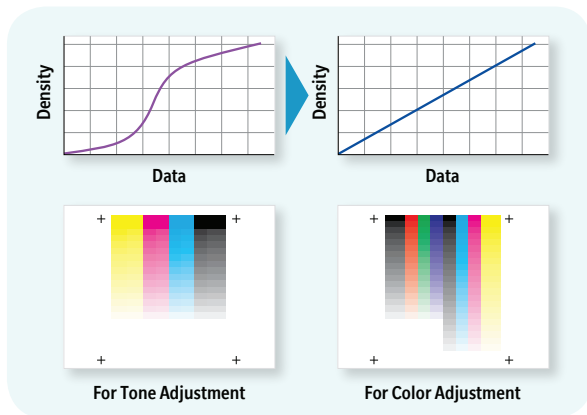
DENSITY BALANCE **AUTO ADJUSTMENT**

Any uneven density values are automatically detected and corrected.



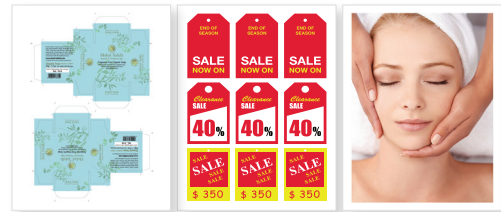
COLOR DENSITY **CONTROL**

Using values stored in the stock library and operator screen settings for the piece, IQ-501's automated density and tone adjustments ensure absolute color fidelity for both CMYK process colors as well as RGB+3C gray arrays for beautiful, color-perfect output.



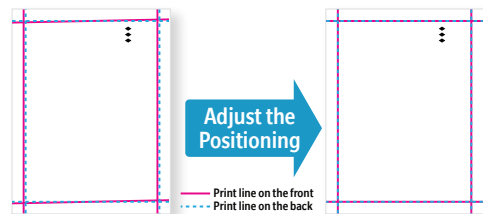
SMOOTH GRADATION WITH **REAL-TIME TONE MANAGEMENT CONTROLS**

Continuous check-and-correct algorithms ensure smoother skin tones and gradations. Packaging, tags, business cards, high-density images, and colorful tints are rendered richly and accurately through density optimization across every sheet.



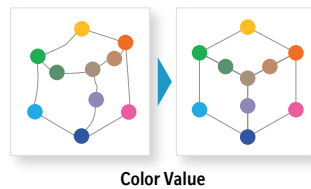
FRONT-TO-BACK **AUTOMATED REGISTRATION**

Specify the media and tray, and the front-to-back registration will be automatically adjusted for the job, page by page, to control both vertical/horizontal orientation as well as image skew. Auto-adjustment intervals may also be set to occur at user defined intervals..



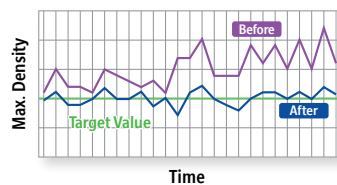
GRAY BALANCE ADJUSTMENT FOR **EXACT COLOR**

If you're printing mono pieces or image elements using CMY process grays, any deviation from the reference color is automatically monitored and corrected on the fly, as you print, for both linearization and gray balance.



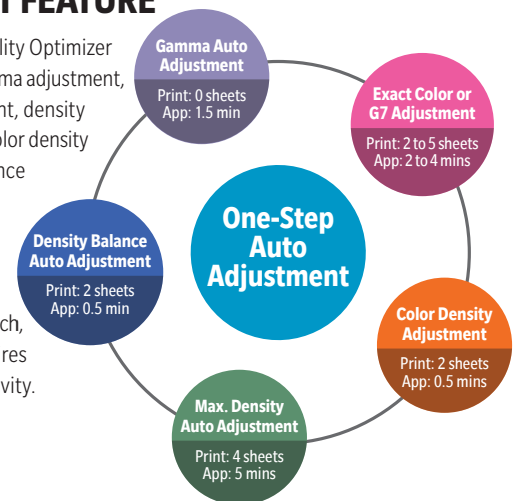
MAX DENSITY **AUTO ADJUSTMENT**

Density of each CMYK separation at 100% saturation is automatically adjusted to maintain density at a designated level, for greater image stability and real-time tone control.



ONE-STEP **AUTOMATED ADJUSTMENT FEATURE**

IQ-501 Intelligent Quality Optimizer allows settings for gamma adjustment, max density adjustment, density balance adjustment, color density control, and gray balance adjustment to be performed collectively, delivering "one button" total color control of a given job, run, or batch, as your workflow requires for maximum productivity.



CREATING ICC PROFILE AND VERIFYING COLORS

CREATING A **PRINTER PROFILE**

For quality-sensitive jobs on any digital press, a new media means a new ICC profile. Historically this has meant manually printing a test chart, measuring the output values, and inputting adjustments at the user interface. IQ-501 streamlines that process by automatically printing, reading, and measuring the sheet, and collecting and storing the measured values for that stock, reducing the typical profiling time from a 30 minute task to 5 minutes or less.

COLOR VERIFICATION

IQ-501 Intelligent Quality Optimizer allows quick, easy color reproduction where absolute fidelity to a reference document is required, such as in subsequent runs of a job containing a corporate logo or color-sensitive graphics such as clothing and makeup. Printed color and reference color are automatically detected and any differences are identified for easy correction and zero waste.

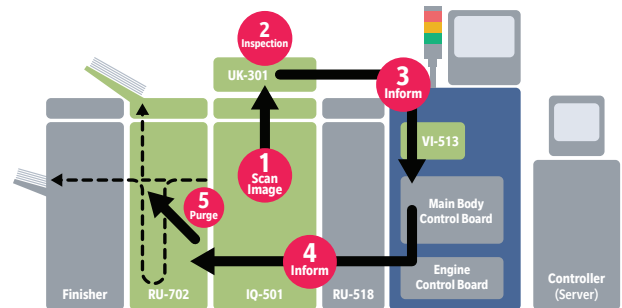
INTELLIGENT QUALITY OPTIMIZER **IQ-501**

TYPE	CONSOLE
Product Category	Automatic image reader
Compatible Presses	Color: AccurioPress C6100, C6085, C3080, C3080P, C3070, C2070, C2070P Mono: AccurioPress 6136, 6136P, 6120
Optional Components	RU-702 Purge Tray UK-301 Auto Inspection Unit VI-513 Video Interface
Functions	Single Pass Duplex In-line scanner + Spectrophotometer <ul style="list-style-type: none"> In-line Scanner 1: Rear side In-line Scanner 2: Front side Spectrophotometer: Colorimetry on the front surface (Spectral reflectivity)
Print Speed	Up to 150 ppm (A4, Letter (8.5" x 11" in.)) (Depends on printer specifications)
Scan Width	Max. 13.8" (Main-scan direction)
Compatible Format	3.7" x 5.5" to 13.0" x 19.2" (Depends on supported sizes of connected engine, also compatible with some banner sizes)
Compatible Weights	40 to 400 gsm (Depends on supported weight of connected engine)
Power Source	Own power supply (5-20R)
Power Consumption	700W or less (Including latter connected options)
Dimensions (W x D x H)	26.1" x 27.4" x 40.2"
Weight	Approx. 405.7 lb

AUTO INSPECTION **TECHNOLOGY**

The new Auto Inspection Technology option is another innovation in the IQ-501 Intelligent Quality Optimizer. Auto Inspection is perfect for all print providers looking for easy, efficient and reliable print production. It automatically inspects each and every sheet of your production run and makes sure only sheets meeting the quality requirements are delivered to the output tray. Manual inspection and intervention is no longer needed and the print shop gets more productive, with misprints being reduced to a minimum. Last but not least a quality assurance report is produced.

Auto Inspection Technology uses the IQ-501 in conjunction with the UK-301 Auto Inspection Unit and the RU-702 Purge Tray. It is a fully automated closed loop inspection system that enables your customers get the output they expect.



AUTOMATED CONTROL **FOR MONOCHROME, TOO**

When connected to a monochrome AccurioPress, the IQ-501 provides real-time, automated front-to-back registration as well as density adjustments and tone correction. When precision is required for monochrome printing, the IQ-501 can meet the needs of the most demanding applications.



For complete information on Konica Minolta products and solutions, please visit: CountOnKonicaMinolta.com

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