

# Copiscan® 8000 Spectrum

The versatile, high-performance,  
more for less scanner.



Now with  **AUTO  
COLOR  
DETECT**

# A New Approach to Color and Bitonal Scanning

It's a simple, but revolutionary idea. Combine the advantages of color scanning with the efficiencies of bitonal scanning so users can maximize productivity, image quality and OCR/ICR accuracy rates while minimizing file sizes, consumables and service costs. You no longer have to choose between color and bitonal. You can have both in a production-level scanner—available only from Böwe Bell + Howell.

## Color When You Want It, Bitonal When You Don't

The new features on Böwe Bell + Howell's Copiscan 8000 Spectrum make color production scanning a more affordable option, even if you want to capture only a portion of your documents in color. Here's how: with Spectrum's superior paper handling capability and image enhancement with VirtualReScan™ from Kofax, documents now can be scanned the way they come to you—mixed together in every shape, size, color and form. And now with Auto Color Detect, color documents scan in color, bitonal in bitonal, all simultaneously on one system. This can reduce the time needed for scanning by up to 60% over other methods. Even file sizes for your largest color images, those with color backgrounds, can be reduced by up to 40%.

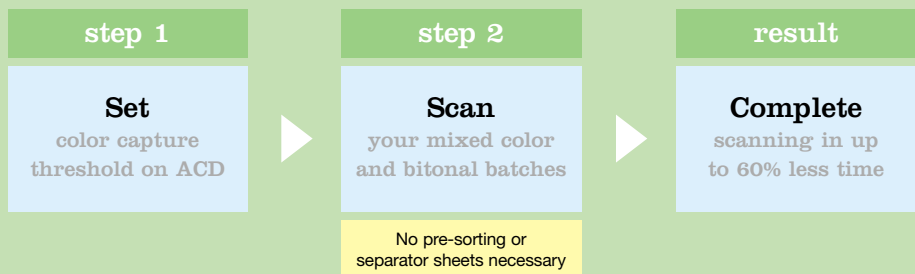
## Auto Color Detect: Only the Color You Need, Faster



Want to dramatically decrease your color scanning processing time? Now you can with the Auto Color Detect (ACD) feature, which correctly identifies color documents from bitonal documents automatically, without slowing down or stopping, while scanning is in process. Even if you only wish to scan 10% of your documents in color, the advantages ACD affords via uninterrupted performance are unmistakable, such as increased document capture productivity and lower storage requirements. Because ACD knows how to find and when to apply color, Spectrum scans faster and smarter, thereby improving your workflow and reducing the total time you need to scan even the largest volumes of mixed batch documents. Thus, multiple runs and manual processing steps needed to capture color content are eliminated because the pre-sorting of batched documents, patch codes and separator sheets are now unnecessary.

## Eliminate Manual Processing Steps, Automatically

Auto Color Detect (ACD) really is scanning made simple. As the diagram indicates, users will realize less steps and faster processing time in any color and at any volume.



## Background Saturation: Reduce File Size

Now you can save up to 40% in file space when scanning in color with the Color Background Saturation and Dropout capability. Spectrum does this by allowing users to saturate or “smooth” document image backgrounds into one uniform color. Users have the additional option of dropping out unnecessary color backgrounds altogether while still capturing all color information in the foreground of the electronic image. This functionality presents a unique way to stretch storage capacity, preserve only “mission critical” information and tightly control storage costs.

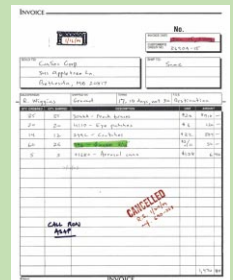
## Background Color Saturation and Dropout: Easier to Read and Store



Raw Color Image  
422 KB at 200dpi



Smoothed Background  
254 KB at 200dpi  
40% file size reduction



Background Dropout  
278 KB at 200dpi  
34% file size reduction

With color-on-demand performance, top scanning speeds and cost-effectiveness over the life of the scanner (list price, warranty coverage and consumables), you'll agree that Spectrum is the only way to scan in color, bitonal or grayscale.

**More Features:  
More Benefits**

**Speaks your language  
Now German,  
Spanish and French  
operator interfaces**

**Lasts much longer  
Skimmers and rollers  
up to 600,000 scans;  
250,000 for NCR paper**

**Easy on the ears  
Now more than  
50% quieter  
at all settings**

**The versatile, high-performance,  
more-for-less scanner**

The scanner that introduced the world to affordable color scanning has added even more value for customers through enhanced feature sets such as Auto Color Detect and Color Background Saturation and Dropout.

**125 Pages Per Minute (PPM)**

In Color, Bitonal and Grayscale, Spectrum with Auto Color Detect provides high-speed throughput that ranks at the top of its production scanner class.

**Built to Last**

With proven day-in, day-out duty cycles up to 60,000 documents and user-replaceable skimmer and separator rollers that last up to 600,000 scans for bond and 250,000 scans for NCR paper, you won't find a more durable or reliable production-grade scanner on the market.

**Superior Image Quality**

Each duplex Spectrum model comes with two 15,000-pixel, Trilinear CCD cameras that offer 30-million pixel-per-second throughput. This level of quality and performance helps maximize OCR/ICR accuracy rates in minimal time and marks yet another breakthrough in Böwe Bell + Howell's storied history of engineering innovation and excellence.

**VirtualReScan® (VRS) Image Enhancement**



Hardware-based VRS technology comes standard on Spectrum scanners and offers users the most widely accepted, state-of-the-art image enhancement tools available in the industry. Hardware-based VRS allows you to take advantage of all VirtualReScan features without slowing down the speed of the scanner.




**New Ignore by Size Feature: Never Miss a Double-Feed**

The same Ultrasonic Multifeed capability you've loved on Spectrum – which catches double-feeds automatically so you don't have to rescan the entire batch again – just got better. Now with the additional "Ignore by Size" feature, items such as photographs, labels and envelopes, which other scanners may interpret as a multifeed, are scanned quickly and seamlessly without stopping. Non-stop scanner performance?

Now that's intelligent double-feed detection.



# Copiscan<sup>®</sup> 8000 Spectrum

Model		8125D	8100D	8080D			
Scanning Speed Letter Size Landscape / Portrait	Binary 200 dpi, ppm (pages per minute)	Simplex 125 / 100 ppm Duplex 250 / 200 ipm	Simplex 100 / 80 ppm Duplex 200 / 160 ipm	Simplex 80 / 65 ppm Duplex 160 / 130 ipm			
	Color 150 dpi, ipm (images per minute)	Simplex 125 / 100 ppm Duplex 250 / 200 ipm	Simplex 100 / 80 ppm Duplex 200 / 160 ipm	Simplex 80 / 65 ppm Duplex 160 / 130 ipm			
Resolution		100-400 dpi Optical: 400 dpi					
Output Options		Bitonal, Grayscale (8 bit) and Color (24 bit)					
Image Enhancement and Advanced Color Functionality		 Cropping, Deskew, Brightness and Contrast Control	 Auto Color Detect, Color Background Saturation and Dropout, Small Color Object Detection				
Supported Drivers (Included)		ImageControls, ISIS, TWAIN					
Multifeed Detection		Ultrasonic Multifeed with Ignore by Size up to 10 in. (254 mm)					
Imprinting		Pre-Scan Standard	Pre-Scan Optional				
Document Size		2.6 x 2.6 in. (66 x 66 mm) to 11.7 x 40.0 in. (297 x 1,016 mm)					
Paper Thickness		0.0018 to 0.008 in. (0.046 to 0.20 mm)					
Paper Weight		9 to 110 lb bond					
Interface		68 pin SCSI III					
Feeder Capacity		500-Sheet Mode, 100-Sheet Mode, Manual Mode					
Scanner Size (HxWxD)		18 x 22.75 x 27.5 in. (45.72 x 57.79 x 69.85 cm)					
Scanner Weight		103 lbs (46.7 kg)					
Power Consumption	Voltage	120 V	240 V	120 V	240 V	120 V	240 V
	Maximum (Scanning)	220 W	224 W	220 W	224 W	210 W	214 W
	Minimum (Idle)	150 W	153 W	150 W	153 W	150 W	153 W
Environment	Temperature	60°F to 100°F (16°C to 37°C)					
	Relative Humidity	10% to 80% non-condensing					
Sound Output (SPL ref 20 µPa)	200 dpi	55.0 dBA					
	400 dpi	56.9 dBA					
Additional Features		User Replaceable Feeder Rollers (last up to 600,000 scans) User Replaceable Lamps (last up to 5,000 hours) Electronic Color Dropout (Red, Green, Blue)					
Additional Contents		Power Cord, Camera Calibration Kit, Operator Manual (in 6 languages), CD-ROM (Installation and Operation Manual, VRS, User Utility Software), Printed Documents (Manual, Quick Installation Guide and Warranty Card)					
Additional Options		Custom Table 0123070, All-In-One Consumables Kit S005200, Extended Exit Tray 0123024, Continuous Feeder Tray 0123025, Dust Cover S005164					

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