2400 dpi scanner-based image quality measurement system.

- Quantify mottle
- Assess banding and uniformity
- Measure repeating defects (spots, dimples)
- Characterize ghosting, and residual images
- Text quality, resolution and other printability attributes
- Measure black density
- Calculate color coordinates (L*a*b*) via software developed by X-Rite.

<table>
<thead>
<tr>
<th></th>
<th>L*</th>
<th>a*</th>
<th>b*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>21.36</td>
<td>-1.31</td>
<td>-15.15</td>
</tr>
<tr>
<td>Cyan</td>
<td>72.78</td>
<td>-41.76</td>
<td>-30.04</td>
</tr>
<tr>
<td>Magenta</td>
<td>41.71</td>
<td>79.54</td>
<td>-6.48</td>
</tr>
<tr>
<td>Yellow</td>
<td>92.88</td>
<td>3.67</td>
<td>109.10</td>
</tr>
<tr>
<td>Red</td>
<td>50.36</td>
<td>71.33</td>
<td>39.47</td>
</tr>
<tr>
<td>Green</td>
<td>66.44</td>
<td>-58.32</td>
<td>49.57</td>
</tr>
<tr>
<td>Blue</td>
<td>32.60</td>
<td>-4.97</td>
<td>-50.81</td>
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for EP applications
**EP Applications**

**Print Quality**

ImageXaminer can be used to measure many image attributes such as line and dot quality, text quality, halftone quality, tone reproduction, resolution and uniformity, as well as defects including solid area mottle, background, deletions, banding and ramping.

Other defects that are characteristic of toner-based systems including repeating defects, ghosting and residual images can also be assessed using ImageXaminer.

**Color and Density Measurement**

Black density and color (L’*a*’*b*’) can be calculated by using a carefully calibrated system. The L’*a*’*b*’ translation code was developed in partnership with X-Rite (www.x-rite.com).

**Automation**

The ADF enables measurement of multiple samples without operator intervention. This ability to perform batch processing increases efficiency and reduces costs.

1-D, 2-D barcode decoding and OCR allows the software to automatically serialize sample IDs and select tests appropriate to the specific target.

And the ability to automate color measurements can greatly increase throughput while decreasing operator fatigue.

**R&D and Production**

ImageXaminer is beneficial in both R&D and production environments. The ability to image in both transmission and reflection modes, and the ability to use color or gray scans allow the user to customize measurement methods to best fit their needs. Interactive tools allow for quick feedback on image content during development, and automation allows for efficient image analysis and the collection of quantitative performance data.

**System Configuration**

Model Number: 10000XL

System:
- Computer
- ImageXpert software

Scanner:
- Firewire interface
- Reflection and optional transmission modes
- Resolution: 2400 x 2400 dpi (optical)

Sample size:
- 12.2” x 17.2” Max (310 mm x 437mm)
- US Tabloid or A3

ADF Capacity:
- 100 sheet capacity (reflection mode only)
- (55 g/m2 paper)

ADF Reliability:
- 100,000 sheets load / eject MCBF

Options:
- MS Office
- USB Printer
- Optional operator friendly push button “GUI” with pre-programmed tests

Expandability:
- Camera for higher resolution analysis
- X-Rite Spectrodensitometer
- Minolta CM2600 Spectrodensitometer
- Glossmeter (multi-angle: 20/60/85 degrees)

**Color and Density Measurement**

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<th>b’ (max)</th>
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Email: info@imagexpert.com

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