

## CRESCENT/40

### Standard Features

The standard CRESCENT/40 consists of:

- A red laser diode (670 nm wavelength) laser imaging system capable of imaging on red-sensitive film to the specifications listed in Table 2.
- Stationary, internal drum with integral vacuum capable of holding down virtually any size media from 11" x 14" to 24" x 30" without masking.
- PRISM -NT imager controller consisting of an Intel Pentium II-based computer with Windows NT, 128MB RAM, a minimum of 4 GB disc storage.
- PRISM -NT and PRISM -View software for creating composites, viewing, and orienting phototools and for image queue control.
- Physical and software interfaces required to integrate the system into an existing Ethernet network.
- Software, parts, and labor warranty, installation, and training as determined by contract terms.

**Table 2 CRESCENT/40 Performance Specifications<sup>1</sup>**

| Characteristics                           | Inches   |          |          | m-millimeters |       |       |
|---|----------|----------|----------|---------------|-------|-------|
|   |          |          |          |               |       |       |
| Resolution ( <i>operator selectable</i> ) | 0.000125 | 0.00025  | 0.0005   | 3.18          | 6.35  | 12.7  |
| Maximum Media Size                        | 24 x 30  |          |          | 610 x 762mm   |       |       |
| Maximum Plot Area                         | 22 x 28  |          |          | 559 x 711mm   |       |       |
| Media Thickness                           | 0.007    |          |          | 0.18mm        |       |       |
| Plot Time (18" x 24" image)               | 12 min   | 6 min    | 3 min    | 12            | 6 min | 3 min |
| Accuracy <sup>2,3</sup>                   | ±0.0008  | ±0.0008  | ±0.0008  | ±20.3         | ±20.3 | ±20.3 |
| Repeatability <sup>4</sup>                | ±0.0005  | ±0.0005  | ±0.0005  | ±12.7         | ±12.7 | ±12.7 |
| Edge Regularity <sup>4,5</sup>            |          |          |          |               |       |       |
| <b>on axis</b>                            | ±0.0001  | ±0.00013 | ±0.00025 | ±2.5          | ±3.3  | ±6.35 |
| <b>off-axis</b>                           | ±0.0002  | ±0.00025 | ±0.00050 | ±5.1          | ±6.35 | ±12.7 |
| Line Width & Space Tolerance              | ±0.0002  | ±0.0003  | ±0.0005  | ±5.1          | ±7.62 | ±12.7 |
| Minimum Line/Space                        | 0.0015   | 0.0020   | 0.0020   | 38.1          | 50.8  | 50.8  |

<sup>1</sup> Based upon operation at 68°F ±1°F (20°C ±0.5°C) ambient temperature, 50% ±5% relative humidity. Measurement of plots on film is subject to the dimensional stability of the film itself.

<sup>2</sup> Accuracy is the ability of an achieved position to fall within the specified tolerance of the commanded position in accordance with Technical Bulletin 111.

<sup>3</sup> Based on film. Barco is not responsible for accuracy effects due to media thickness variations.

<sup>4</sup> Accuracy specification exclusive of 1-inch (25.4mm) border.

<sup>5</sup> Exclusive of media stability.