

# CTS

## Computer to Screen



 DIAMOND  
CHASE  
DIGITAL



# RESOLUTION

1440  
1080  
720  
360

# SPEED

4 HEAD  
INKJET

# QUALITY

**D**iamond Chase Digital has joined forces with the Swiss based Heinrich Mantel AG company to offer the high speed, high resolution computer-to-screen system called the DataScreen™. Many years of quality screen manufacturing enabled Diamond Chase to enter the digital industry with a strong pre-press approach. The DataScreen™ strengthens the “systems approach” from the frames to the press set-up and registration.

**T**he DataScreen™ has many features which make it affordable and cost effective. The 4 head piezo ink system increases the output speed compared to single or dual head systems. Individually controlled print heads allows for the flexibility of multi head speed or single head precision.

**A**ffordability of the DataScreen™ starts with the specially formulated, high performance ink system. Coverage and opacity have been optimized while still controlling the ink droplet size and configuration. Mileage for one liter of ink is approximately 80 to 100 m<sup>2</sup> at 50% coverage depending on the print mode. Optimized efficiency and low cost consumable stream of the DataScreen™ equals extremely fast return on investment.



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The bulk feed ink system utilizes a water-based, light-impervious ink delivered through interchangeable containers installed at the print head. Easily refilled containers eliminate costly ink cartridges and lengthy ink tubes. This reduces the variable costs and enhances cost-effectiveness.

The ink pressure control unit ensures consistent flow, regardless of ink levels, to all print heads by maintaining a stable vacuum pressure. A secondary atmospheric monitoring system within the software alerts the operator of imperfect working conditions.



The printing unit has four piezo print heads with a total of 768 jets used. Job specific parameters can be optimized by imaging with either four, two or a single print head. The system software compensates for individual jets which are defective or misfiring. If servicing is required, the complete printing unit can be rapidly exchanged or a single print head can simply be changed.

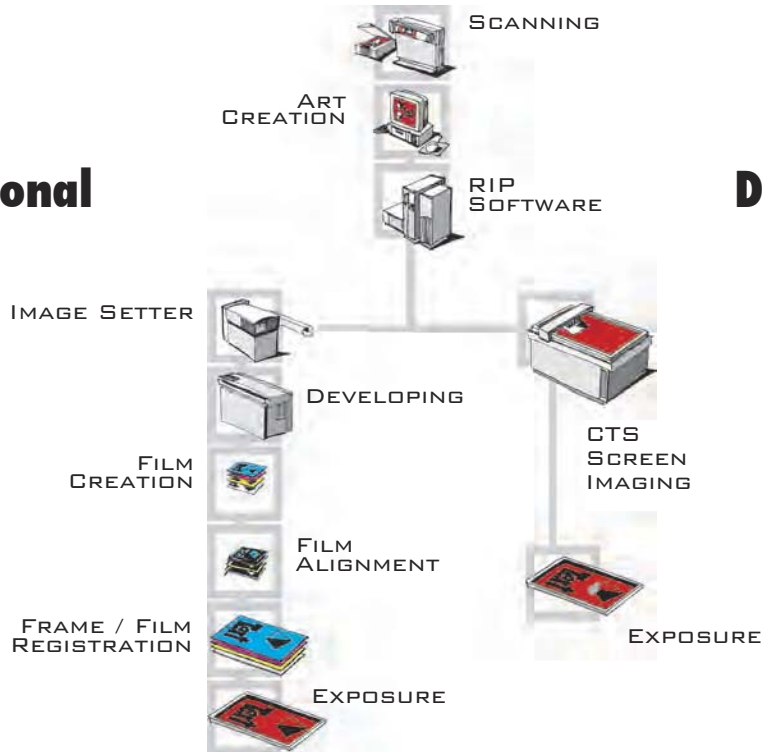


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# The Process

## Conventional Film

## Diamond CTS Efficiency



|                          | SMALL FORMAT |         | MEDIUM FORMAT |         | LARGE FORMAT |
|--------------------------|--------------|---------|---------------|---------|--------------|
| <b>Model</b>             | M-800        | M-1200  | L-1200        | L-1600  | XL-3000      |
| Frame Size               | 31 x 45      | 46 x 50 | 55 x 67       | 65 x 70 | 86 x 126     |
| Image Size               | 23 x 35      | 37 x 45 | 39 x 55       | 55 x 63 | 70 x 117     |
| External Dimensions      | 50 x 73      | 65 x 73 | 65 x 93       | 65 x 91 | 148 x 110    |
| Approx. Net Weight (lbs) | 925          | 1,036   | 1,080         | 1,764   | 2,756        |
| Approx. Net Weight (kg)  | 420          | 470     | 490           | 800     | 1,250        |

### Standard Features

- ◇ RESOLUTION (DPI) 720 x 720 (1440)
- ◇ PIEZO INK JET (768 JETS)
- ◇ WASATCH RIP SOFTWARE
- ◇ 360, 720, 1080 AND 1440 OUTPUT
- ◇ WATER-BASED, BIODEGRADABLE INK
- ◇ PHOTOELECTRIC SAFETY BARRIERS

Dimensions and Technical Data Subject to Change without Notice  
 Dimensions May Vary Depending on Dimensions and Status of Printable Image