

October 17, 1988

Performance Results
Bench Mark Test

The following is the data resulting from validation of random testing of the IRIS 3024 Color Ink Jet Printer's performance. All data was mathematically computed from the equations and data contained in the interface guide and then validated. The results are as follows:

Table 1:

		Time to Print Full Image (minutes) 24 Inches Across the Drum			
		Drum Speed (ips)			
		100	150	200	250
Resolution (dpi)	200	24.27	16.40	12.47	10.02
	300	30.17	20.38	16.01	12.50

Notes:

1. As the drum speed increases, the maximum number of droplets available per pixel will decrease. The user can select a drum speed which will allow maximum density requirements. Table 2 depicts the changes in maximum droplets.

Table 2:

		Maximum Number of Droplets/Pixel			
		Drum Speed (ips)			
		100	150	200	250
Resolution (dpi)	200	31	27	20	16
	300	31	22	16	13

2. At drum speeds above 220 ips, the autophase overhead (i.e., time to do autophase) affects the maximum raster length that can be printed without a performance degradation. Table 3 depicts the maximum raster length at drum speeds above 220 ips.

Table 3:

Maximum Raster Length (inches)
Without Overhead Degradation

Drum Speed (ips)			
220	230	240	250
23.95	23.90	23.86	23.81

August 29, 1988

Maximum Number of Droplets/Pixel

Drum Speed (ips)	Resolution (dpi)					
	200	203	240	254	300	304
100	31	31	31	31	31	31
110	31	31	31	31	30	29
120	31	31	31	31	27	27
130	31	31	31	30	25	25
140	31	31	29	28	23	23
150	31	31	27	26	22	21
160	31	30	26	24	20	20
170	29	28	24	23	19	19
180	27	27	23	21	18	18
190	26	25	21	20	17	17
200	25	24	20	19	16	16
210	23	23	19	18	15	15
220	22	22	18	17	15	14
230	21	21	18	17	14	14
240	20	20	17	16	13	13
250	20	19	16	15	13	13