Princeton Instruments
A Division of Roper Scientific, Inc.

Sales Order No:	57003
Purchase Order No:	801270
Detector Serial No:	1912D50C06
Controller Serial No:	1912D50L07
CCD Serial No:	9141-14-15

Certificate of Performance

This document certifies that at the time of manufacture, this VERSARRAY-1300B/LN SYSTEM was assembled and tested in accordance with applicable Princeton Instruments procedures. A copy of this certification is on file.

Specifications

Read Noise

Speed	Measured	Limit
100 kHz	2.87 e- RN	
100 kHz	7.73 e- HC	
1 Mhz	6.33 e- RN	
1 Mhz	18.3 e- HC	

Output-Node (Binned) Full Well

	Measured	Limit
Low-Noise Output	360 kE-	
High-Capacity Output		

Single-Pixel Full Well

	Measured	Limit
Low-Noise Output	266 kE-	
High-Capacity Output		

Dark Charge

Measured

0.115 e-/pixel/hr @ -110 °C

Limit

Low-Noise Output

Speed	Linearity		Gain (e-/ADU)	
100 kHz LN	Measured	Limit	Hi:	1.05
	< 1 %		Mid:	2.10
			Low:	8.03
1 Mhz LN	Measured	Limit	Hi:	1.15
	< 1 %		Mid:	2.22
			Low:	8.15

High-Capacity Output

Speed	Linearity		Gain (e-/ADU)	
100 kHz HC	Measured	Limit	Hi:	3.17
	< 1 %		Mid:	7.26
			Low:	27.69
1 Mhz HC	Measured	Limit	Hi:	4.37
	< 1 %		Mid:	7.89
			Low:	15.00

This imaging system was tested by Princeton Instruments technician, Ken Sabo

Ken Sabo 12-21-05

Test Technician/Date

Approved By/Date: 12/21/05