



2223 Eastman Ave, Suite B, Ventura, CA 93003
Tel: (805) 642-4645

Test Report

Part Information

Model #: APS640C
Package Serial #: S0276
(Backfilled)
ROIC wafer-Die location: 112-06
Detector wafer-Die location: 4701F-04
Date tested: 08/15/11
Tester: JM

Bias Settings

Bias Name	Voltage
Vref (HG/LG)	1.000 / 2.6
Vdetcom (HG/LG)	1.200 / 3.0
Vos (HG/LG)	1.318 / 5.0
Vpos_core	5.5
Vpos	5.5
Vposout	5.5
Vpd	5.5
Voutref	1.6
Vneg_core	0
Vneg	0
Vnegout	0
Vnd	0

Serial Word Settings (Single Output)

Parameter	Setting
ITR	0
GC	0
BW	0
IMRO	0
IM	1
UP	2
AP	1
MP	1
DP	1
LP	1
ReadOrder	0
Interlace	0
OM	0
RE	0
OE_EN	1
WAX	0
WAY	0
WSX	160
WSY	127



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Functional Checks

Function	Passed
1 output operation	YES
4 output operation	YES
Low Gain operation	YES
High Gain operation	YES
83 Hz operation	YES

Performance Summary

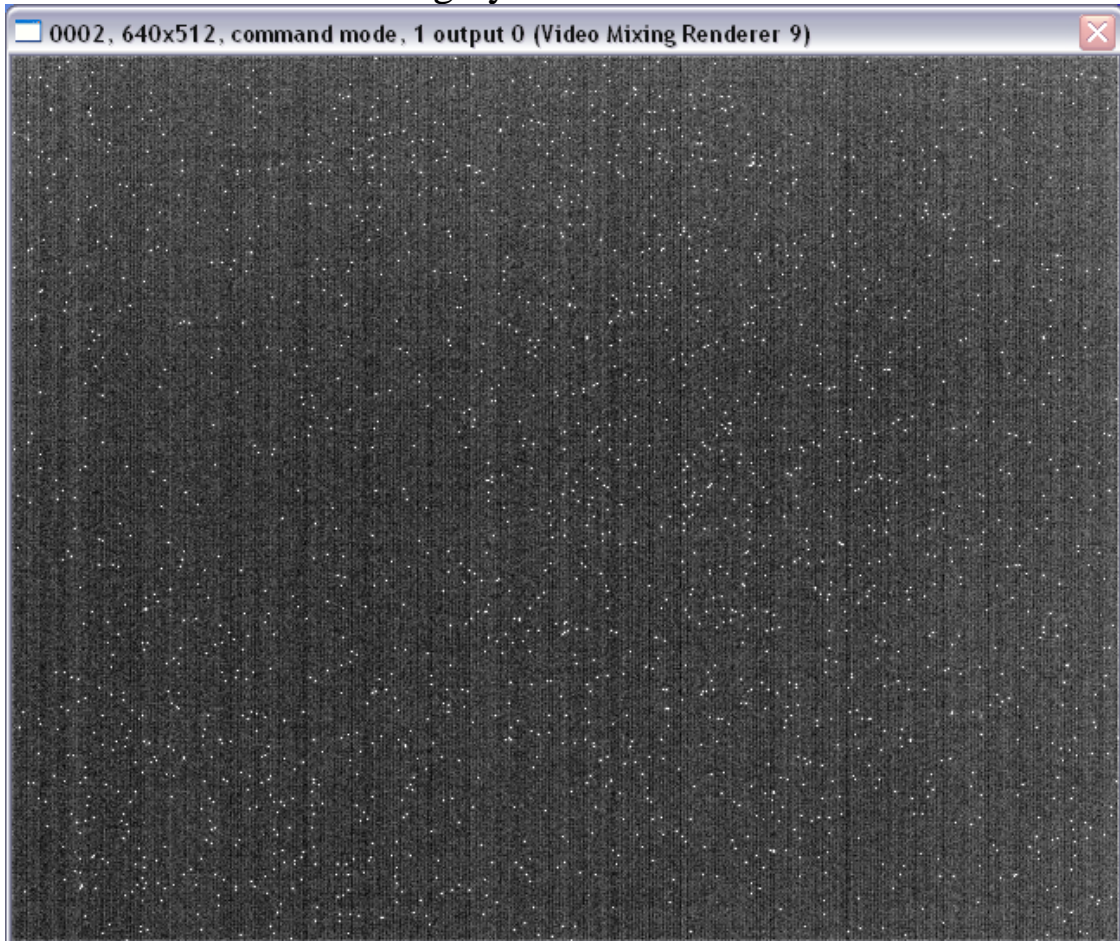
Parameter	Value
Temperature	20°C
Dark Current (High Gain)	92,047 electrons/sec (20°C)
Operability	99.44%
Transimpedance Gain	0.4789 ADU/electron

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Imagery – Uncorrected



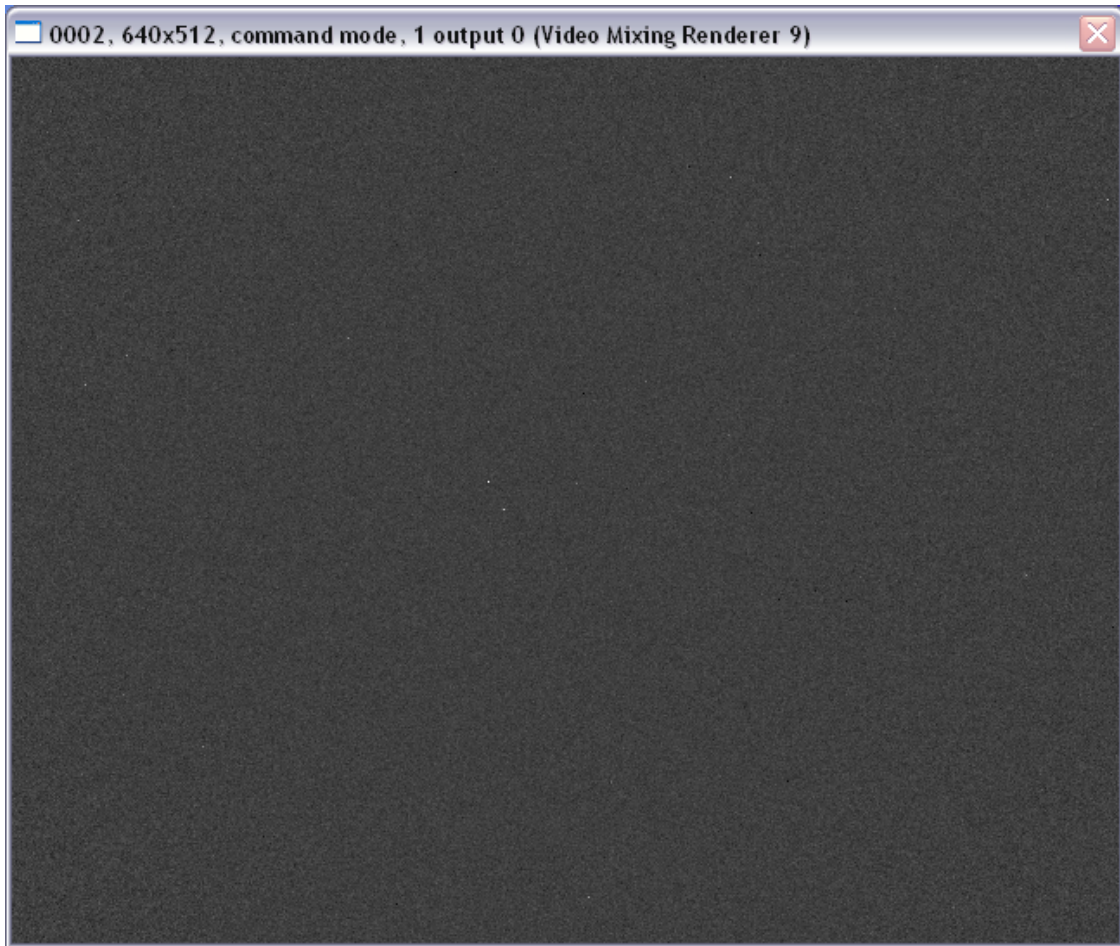
- Single channel
- High gain
- Uncorrected
- T: 20°C

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Imagery – Flat Field



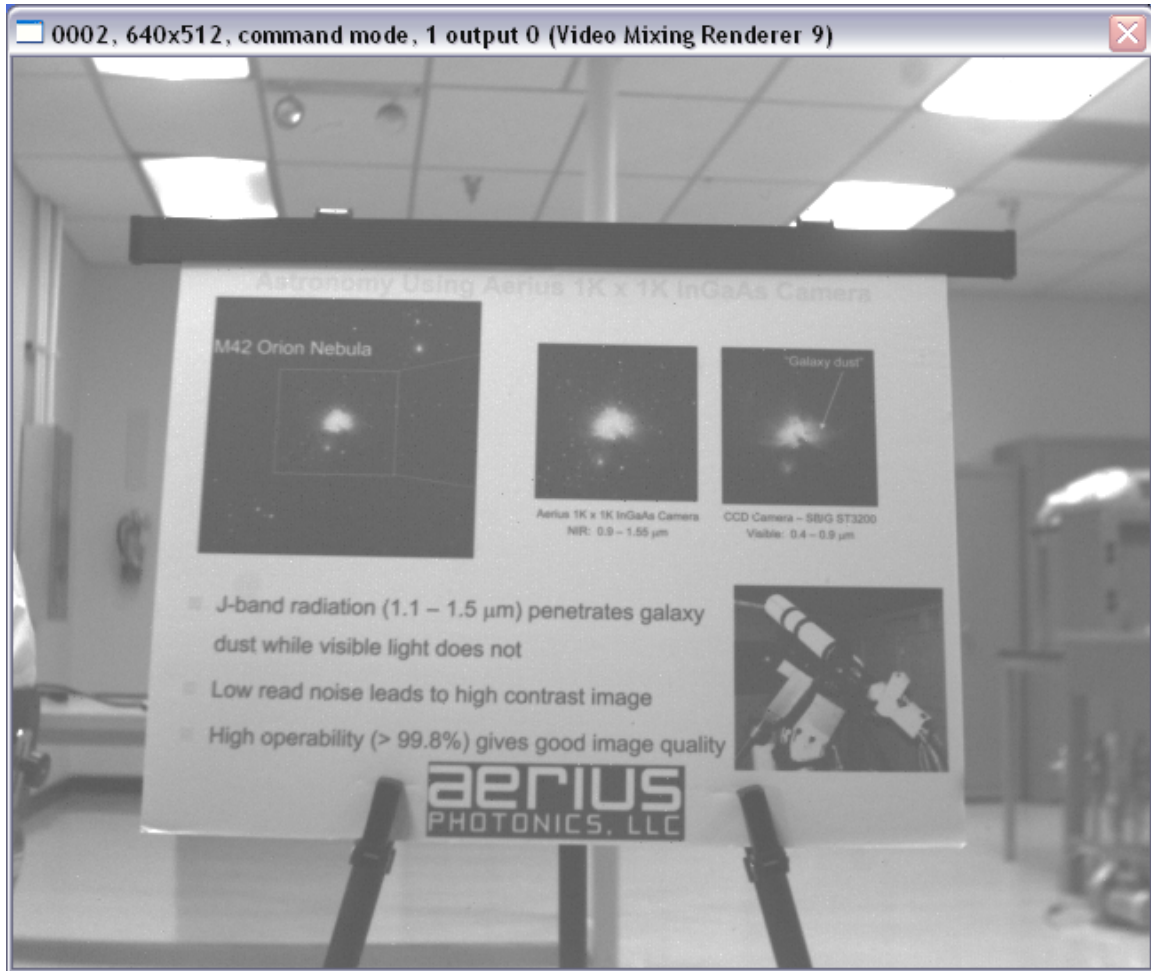
- Corrected – mid flux
- High Gain
- Temperature: 20°C

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Imagery - Scene



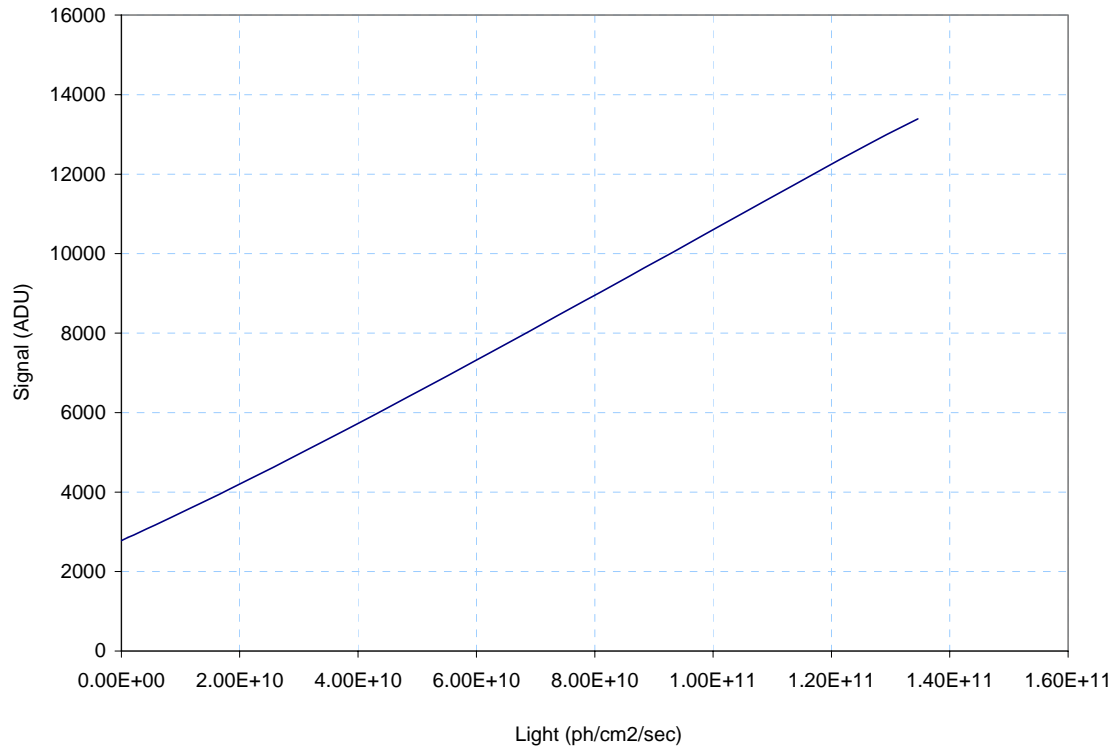
- Corrected Image
- High Gain
- Temperature: 20°C

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Signal vs Light



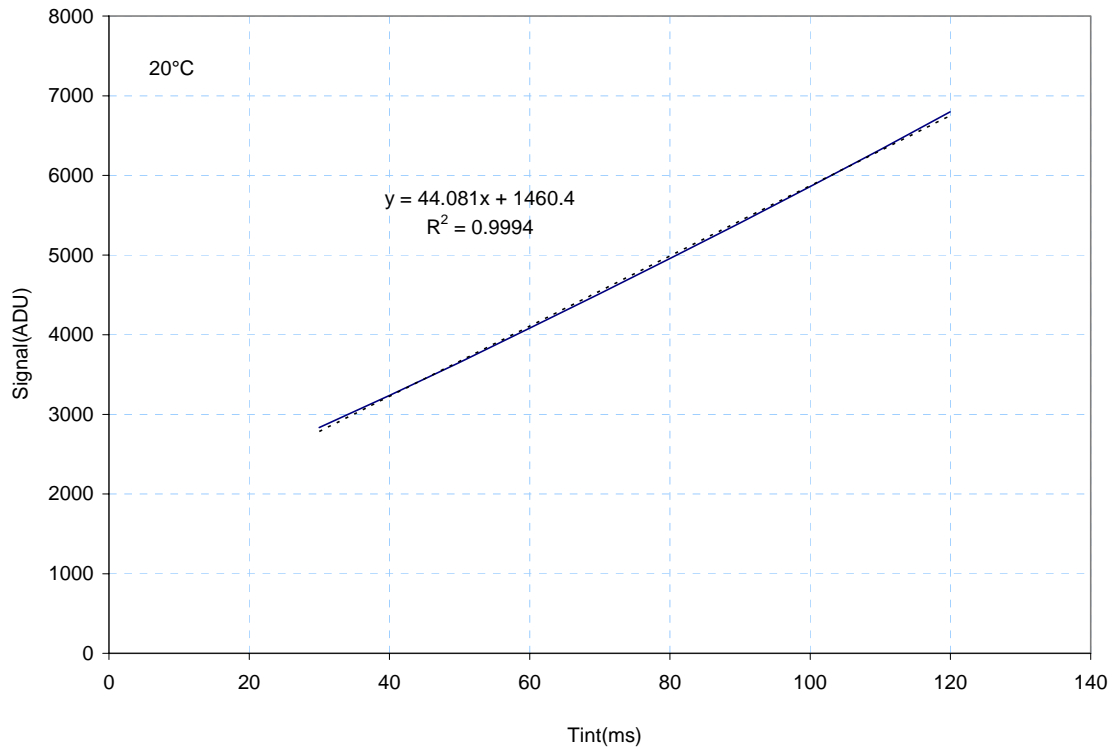
- High Gain
- Single column (319)
- Temperature: 20°C

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Dark Current



Average dark current: 92,047 electrons/second

Dark current/frame: 1,535 electrons/frame (60 Hz)

- High Gain
- Single column (319)
- Temperature: 20°C