test new Andor camera | Fri 24 Mar 2017, MF | 1/1

Yesterday, Thu 23 Mar 2017 rcvd via UPS @ Pier 35
From Andor Technology, Belfast, UK

Andor iKon-M, model DU934P-BR-DD-9XT
serial CCD-20476
date Mar 2017

the foam insert in the cardboard shipping box was too big for this camera, allowing the camera to clunk around inside the (hard) foam packing...

check camera via SOLIS software
02:38 pwr on via PS-25, II = deep cooling

Help, about:

Info: ID = Andor, structure ver no = 24, SN = 20476
date of manuf = 14/03/2017, last mod = 20/3/2017, operator = KM

Properties: head = DU9, device = 34P, Sensor options = BR-DD
Grade = A, cooler = 4, Special Features = NA, head type = 9

Chip: Format 1024-1024, Pixel = 13-13, Dark col left = 17, right = 15
Dark rows top = 3, bot = 0, overscan pixels left = 8, right = 8
Register size = 0, FT storage rows = 0

Version: CCD S/N = 12262-17-02, headboard = NA,
Engine ver = 20.24, RMA no = NA

Speeds: slowest = 70, fastest @ normal amplitude = 4, } Vert shift speeds (usec)
Absolute fastest = 2, Edge change = 30
Horiz speed (MHz): num of sensor outputs = 1,
max sensor readout speed (LS) = 6, max (HP) = 6
max horiz register speed = 20

channels: AD: ch 1 = NA-PAT, 2 = NA-PAT, 3 = NA-PAT
chan 4 = H-P02R, Desired baseline = 1000

Scheme: masternewton ver: 1, structure = 1
P02R34P_4H 1 1

02:52 TEC set -60°C (was -42, on @ program startup)
Vert shift = 4.25 msec, Horiz = 3 MHz, PreAmp = 4x
1 sec bac → 3320 ADU
02:55 0 viel on @ 5 Vdc, ~5.5A, ~30W + iris @ ~80cm to gray plaque

Fri 24-Mar-2017 HST = day 01

MLML RADIOMETRIC CALIBRATION LOG

EXPERIMENT HI-2017-03 LOCATION P35, rm 124

DATE 25 Mar 2017 OBSERVERS MF

INSTRUMENT CCD-20476 S/N CONFIG

COLLECTOR bare camera shutter DISTANCE 40cm to plaque
(mux / position / fiber)

SOURCE Oriel 60000 S/N CONFIG 12" gray plaque

PWR SUPPLY Oriel S/N CONFIG

MULTIMETER S/N SHUNT

LAMP VOLTAGE 5 Vdc CURRENT ~5.5A, 30W + iris ~80 cm to plaque

LAMP TIME ON 02:55 WARMUP OFF 03:08 TOTAL

WHERE NODE :: DEV : [DIR]

SETUP SKETCH / REMARKS

test new iKon-M CCD-20476
rcvd from Andor UK yesterday
mod DU934P-BR-DD-9XT
date Mar 2017
pwr sup = PS-25 @ II = deep cooling
shutter = 35/35 msec, Pre Amp = 4x
vert shift = 4.25 μsec, Horiz = 3 MHz

PROCESSED DATE: BY:

Time	Filename	Int Time/Bin Fact or Gain	Shunt Current mA	Lamp Voltage V	Humidity % R.H.	Temp. °C	Remarks
02:38	Pwr on						
02:52	TEC@-60°C (was @ -42 / on @ program startup)						
03:06	s20170325 01_20476	0.1 sec					sig
307	b 01	0.1					bac ~3309 ADU
308	lamp off						
310	d20170325 01_20476	0.1					drk
310	b 02	1 sec					bac 3305
	b 03	10					3307
	b 04	30					3310
	b 05	60					3361
	b 06	90					3368
	b 07	120					3382

03:21 TEC off

Mon 27 Mar 2017 HST = Day 02

MLML RADIOMETRIC CALIBRATION LOG

EXPERIMENT HI-2017-03 LOCATION P35, rm 124

DATE 28 Mar 2017 OBSERVERS MF

INSTRUMENT CCD-20476 S/N CONFIG

COLLECTOR bare camera shutter DISTANCE 40cm to plaque
(mux / position / fiber)

SOURCE Oriel S/N CONFIG Gray Plaque

PWR SUPPLY S/N CONFIG

MULTIMETER S/N SHUNT

LAMP VOLTAGE CURRENT

LAMP TIME ON 03:10 WARMUP OFF 04:18 TOTAL 68 min

WHERE NODE :: DEV : [DIR]

SETUP SKETCH / REMARKS

This camera will NOT power on without turning ON the TEC @ -42°C!

Need to collect more than one scan to look for hot/cold pixels!

SF oxed four 7x

PROCESSED DATE: BY:

Time	Filename	Int Time/Bin Fact or Gain	Shunt Current mA	Lamp Voltage V	Humidity % R.H.	Temp. °C	Remarks
03:18	camON, set TEC OFF						
	let camera un-cool...						
03:47	s 20170328 01:07	0.1 sec					sig
50	d 01:07	0.1					dark = lamp blocked
52	b 01:07	0.1					bac
55	b 08:14	1 sec					
57	d 8:14	1					
401	d 15:21	2 sec					
403	b 15:21	2 sec					
406	TEC @ -20°C						
411	s 22:28	0.3 sec					
13	d 22:28						
15	b 22:28						

04:17 TEC = OFF