	Title: C-RED 2 camera test report Document: TR-CR2-2020-135 Issue: 1 Classification : commercial in confidence	Page : 1 Date : 11/09/2020
---------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------	-------------------------------

### Fill the Test Report

## C-RED 2 test report Certificate of Conformity

**commercial reference:**  
**serial number:**

**C-RED 2**  
**CR2-2020-135**


<b>MAC address:</b>	70:B3:D5:B0:90:CB
<b>firmware version:</b>	3.3.2
<b>FPGA version:</b>	2.8.6
<b>hardware version:</b>	3 3.3.72
<b>Matlab scripts version:</b>	4.0.0-2-gc9779a2/0.1.0-7-g8afdeac
<b>hardware ID:</b>	01-00001c2c9303

**reference documents**

RD1: C-RED2\_UserManual\_20180322.pdf  
RD2: C-RED2\_TestProcedure\_v100.pdf

**Test report informations:** All measurements reported here were performed at -40°C. Noise data were acquired with camera looking at a 300 K hot mirror.

**Certificate of Conformity:** It is certified that the supply detailed above is conform in all respects to RD1 specifications, drawings and order relative thereto. The supply has been inspected and tested following RD2 measurement procedures. The referred test report shows that the product complies with requirements.

	Title: C-RED 2 camera test report Document: TR-CR2-2020-135 Issue: 1 Classification : commercial in confidence	Page : 2 Date : 11/09/2020
---------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------	-------------------------------

		Description	Units	Values
CDS mode	High gain	System gain (at 400 fps)	e-/ADU	2.37
		Mean noise at integration time = 50 $\mu$ s	e-	22.22
		Mean noise at maximum integration time = 2.49 ms (1/400 fps)	e-	31.19
		Mean dark (at 400 fps)	e-/s/pix	373.62
		Full well capacity	e-	32780.18
		Linearity (10%-90% FW)	%	0.16
	Medium gain	System gain (at 400 fps)	e-/ADU	7.74
		Mean noise at maximum integration time = 2.49 ms (1/400 fps)	e-	46.81
		Full well capacity	e-	119839.89
		Linearity (10%-90% FW)	%	0.28
	Low gain	System gain (at 400 fps)	e-/ADU	88.92
		Mean noise at maximum integration time = 2.49 ms (1/400 fps)	e-	71.81
		Full well capacity	Me-	1.37
		Linearity (10%-90% FW)	%	0.21
IMRO mode	High gain	System gain (at 400 fps)	e-/ADU	1.78
		Mean noise in (96 x 96) cropping mode, frame rate $\approx$ 18.8 fps, #NDR = 256	e-	33.44
		Mean noise in full frame, frame rate $\approx$ 10 fps, #NDR = 40	e-	37.92

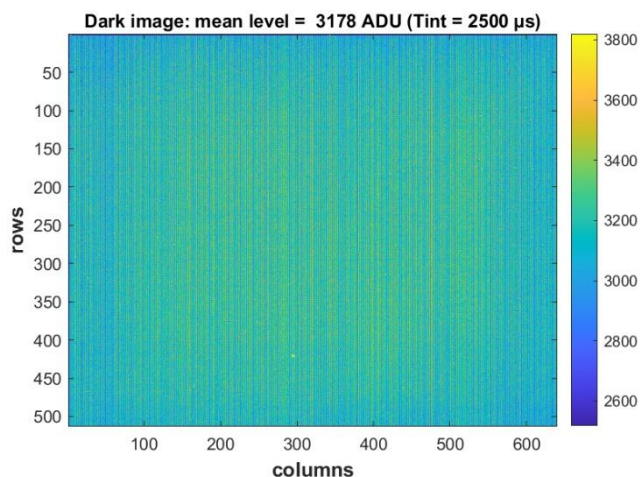
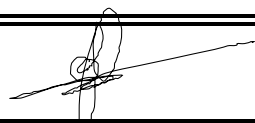


Figure 1: C-RED 2 image acquired in dark conditions and in CDS mode, high gain at 400 fps, camera looking at a 300 K hot mirror.

	Name	signature	Date
Quality Control validation	<i>mekati</i>		11/09/2020