



**ELDIM**  
ELECTRONICS FOR DISPLAYS AND IMAGING DEVICES

## Application Note: Region of interest

Abstract	This documents is an application note
Version	0.1
Status	Draft
Date	2020/07/22

Revision history

Version	Date	Content
0.1	2020/07/22	Initial version

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## 1 Introduction

A Region of interest (ROI) can be defined to capture only a part of the capture

## 2 Sequence with no ROI

ROI is disable

CONOSCOPE\_DEMO - 0.11.29 (2020/07/02)

CONOSCOPE\_LIB 0.12.39 (2020/07/13 debug\_01)

PIPELINE\_LIB 0.4.9 (2020/07/01)

MeasureDone

SetConfig	cfgPath	E:\TmpConoscope\15\Cfg
	capturePath	./Capture
	fileNamePrep	
	fileNameApp	
	exportFileNa	
	exportFormat	bin
	emulatedCamera	<input type="checkbox"/>
AE	AEMinExpoTimeUs	10
	AEMaxExpoTimeUs	980000
	AExpoTimeGranularityUs	1
	AELevel (percent)	80.00
AEMeasArea	AEMeasAreaHeight	200
	AEMeasAreaWidth	288
	AEMeasAreaX	3808
	AEMeasAreaY	2902
ROI	bUseRoi	<input type="checkbox"/>
Open		
Setup	sensorTemperature	25.00
	filter	BK7
	nd	1
	irisIndex	2

AppController SM

AppController SM

AppController SM

AppController SM

AppController

Wo:

AppController

AppController SM

AppController SM

AppController SM

AppController SM

AppController SM

AppController

20200717\_162420\_:

Wo:

AppController

AppController SM

AppController SM

AppController SM

AppController SM

AppController

Perform "Measure".

Export process data.

The result is in Capture folder (size is 6001\*6001)

(please refer to User Manual to open the capture)

3 Sequence with ROI

Following figure shows the configuration for a result image of 3000x3000 pixels

CONOSCOPE\_DEMO - 0.11.29 (2020/07/02)

CONOSCOPE\_LIB 0.12.39 (2020/07/13 debug\_01)  
PIPELINE\_LIB 0.4.9 (2020/07/01)

MeasureDone

SetConfig

cfgPathE:\TmpConoscope\15\Cfg

capturePath./Capture

fileNamePrep

fileNameApp

exportFileNa

exportFormatbin

emulatedCamera

AE

AEMinExpoTimeUs10

AEMaxExpoTimeUs980000

AEXpoTimeGranularityUs1

AELevel (percent)80.00

AEMeasArea

AEMeasAreaHeight200

AEMeasAreaWidth288

AEMeasAreaX3808

AEMeasAreaY2902

ROI

bUseRoi

XLeft0

XRight3000

YTop0

YBottom3000

Open

AppController

AppController SM

AppController SM

AppController SM

AppController SM

AppController

Worker

AppController

AppController SM

AppController SM

AppController SM

AppController SM

AppController

After “ExportProcess” capture is stored in Capture foldef

Name	Date modified	Type	Size
20200717_164126_filt_X_nd_1_iris_2_proc_1.bin	17/07/2020 16:41	BIN File	17 579 KB
20200717_164126_filt_X_nd_1_iris_2_proc_1.json	17/07/2020 16:41	JSON File	2 KB

Opening the image with ImageJ:

