

Random darker or brighter stripes with Matrix Vision Cameras

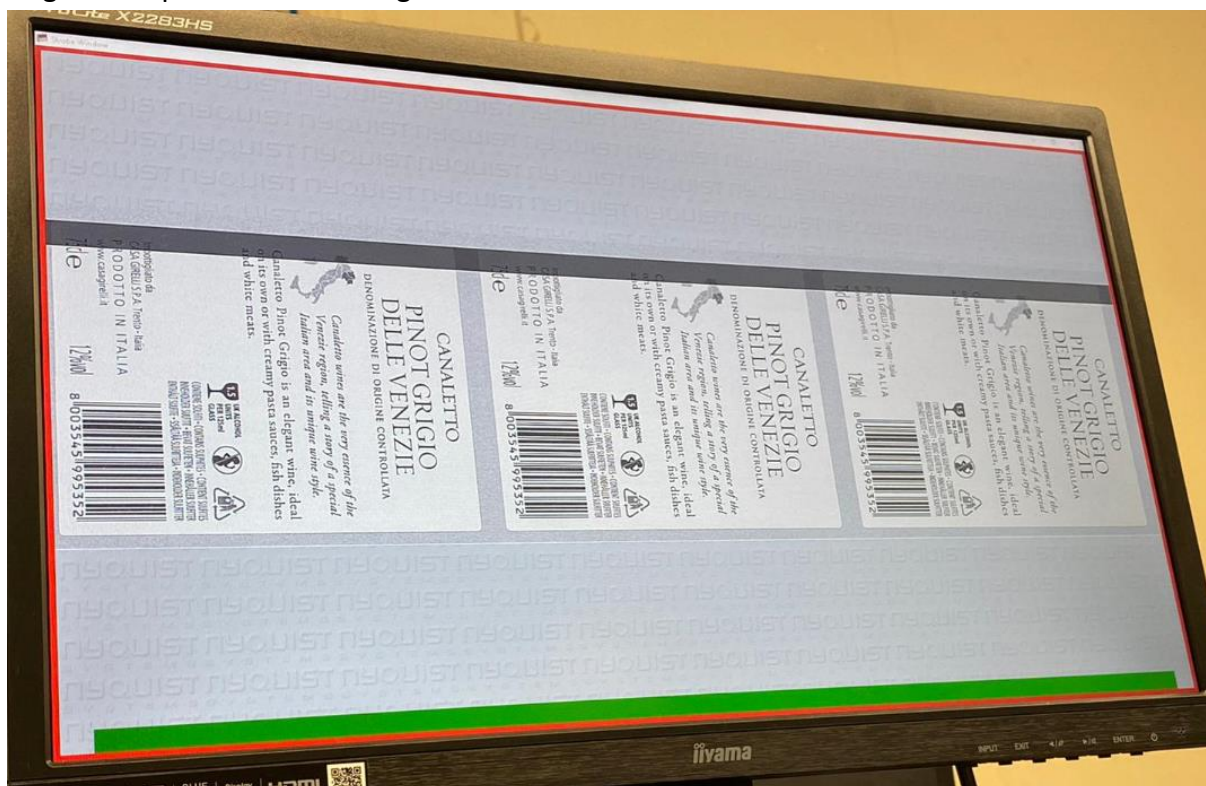
Version: 1.2

Content

1	Problem.....	1
2	Solution.....	2
3	History.....	3

1 Problem

Up to now we had rare cases, where Matrix Vision cameras showed randomly darker or brighter stripes in the live image.



This document is protected by copyright and must neither be copied
nor duplicated nor be made available to a third party
Nyquist Systems GmbH

This can pop up in dependency to flash durations. When the problem can be solved with slightly increased flash duration, this is the easiest way. When the flash duration is perfect for inspection, but the problem is still there, the following described parameter changes can help.

2 Solution

Check first in the NYCAMConfig folder for SW version 7.2 the configuration file IlluminationSettings.xml and for SW version 7.3 or 7.4 the configuration file StrobelIlluminationSettings.User.xml. Search the parameter ExposureTimeOffsetInMicrons and change the value to 51, when a different value is stored.

When the problem is not already fixed, there is one parameter in the camera configuration files, which should be checked.

All Matrix Vision Cameras have two Configuration Files with the following naming convention:

bluefox_mvBlueFOX3-M2032aC_Stripes_FF009213.xml

bluefox_mvBlueFOX3-M2032aC_Stripes_FF009213_ReflectiveBright.xml

Green marked is the camera type and blue marked is the serial number. Only the files containing a serial number need to be checked. There are two files for each camera if scan mode “reflective bright” is used. Search for TimerDelay:

```

156   TimerSelector   Timer1
157   TimerSelector   Timer1
158   TimerTriggerActivation RisingEdge
159   TimerSelector   Timer1
160   TimerSelector   Timer1
161   TimerDuration    50
162   TimerSelector   Timer2
163   TimerDuration    20000
164   TimerSelector   Timer1
165   TimerSelector   Timer1
166   TimerDelay       25
167   TimerSelector   Timer2
168   TimerDelay       0
169   TimerSelector   Timer1
170   mvGainMode       Default
171   GainSelector     AnalogAll
172   Gain             6.1
173   GainSelector     DigitalAll

```

Depending on the type of the camera the following values should be entered for TimerDelay, **but only for this single position below TimerSelector Timer1** in the .xml file:

Type	Timer Delay	Kind of camera
bluefox_mvBlueFOX3- M2089aC	42	4k
bluefox_mvBlueFOX3-M2032aC	38	2000
bluefox_mvBlueFOX3-M2032C	25	2000 fast
bluefox_mvBlueFOX3-M2051C	20	2500

If the above parameters matched and the problem still exists, it should be checked if the system is also equipped with a contour light. This should be switched off when it is not needed.

Contact Nyquist Systems if nothing has helped.

3 History

Version	Changes	Author	Control	Approval
1.0	First revision	Andreas Volz	Stephan Krebs	Stephan Krebs
1.1	Play with the camera parameters instead of fix values.	Andreas Volz	Stephan Pittino	Stephan Pittino
1.2	Fixed values for the different camera types	Andreas Volz	Alexander Schiller	Stephan Pittino