

Description of the OIT configuration and parameters

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The parameters in the table below can be set using the `SetSpecificSingleParameter` method in the software interface. To do this, the interface DLLs has to be integrated into the programming environment and the programming lines mentioned below must be executed.

All the examples relate to the Visual Studio 2010 programming environment and to the C# (C sharp) programming language.

Below is an example program for integrating and triggering the OIT:

```
class Program
{
    static void Main(string[] args)
    {
        PF.Foundation.VsxFactory.PFVsxFacoryVCCustom sensor;
        sensor = new PF.Foundation.VsxFactory.PFVsxFacoryVCCustom();
        sensor.Connect("192.168.2.3", 50005);

        sensor.SetSpecificSingleParameter(1, "Command", "TriggerStart", "1");

        System.Threading.Thread.Sleep(1000);

        sensor.Disconnect();
    }
}
```

Configuration Overview OIT

Config ID	Parameter ID	Value	Config Version		Description	From Firmware
			from	to		
System	UDP	0,1	1		Enable UDP Result	
	PortOut	1-65536	1		Port TCP/IP	
	PortOutUdp	1-65536	1		Port UDP	
	SensorName	string	1		User-definable string	
	ImageTransfer	ALL_IMG ERROR_IMG GOOD_IMG	1		Which images are transferred to the connected client	
	ImageTransferActive	0,1	1		Enable transfer of VSX image message after each cycle	
	ImageBuffer	ALL_IMG ERROR_IMG GOOD_IMG	1		Which images are buffered , buffer is implemented as FIFO of 10 images	
	BadImageTransfer	Image A Image B	1		In 2 image mode this parameter select the image which transfers to the connected client. First captured image (A = bright one), or the second captured image (B = dark one).	

Configuration Overview OIT

Config ID	Parameter ID	Value	Config Version		Description	From Firmware
			from	to		
Camera	ExposureTime	10-20000	1		Exposure time in ms	
	Gain	0-255	1		Manual input of the exposure time in ms (AutoExposure must be deactivated).	
	StartLive	1	1		Starts continues capturing of images on sensor. You need to stop it by StopLive! Don't send other commands between start and stop!	
	StopLive	1	1		Stops the continues captureing	
	CheckImages	0,1	1		If set, each image captured in live mode are checked by the decoder	
	DisplayPause	100-10000	1		Pause between end of decoding to next capture image in live mode in ms	
Command	TriggerStart	1	1		Starts one trigger	
	GetLastImg	1	1		Requests last captured image	
	GetErrImg	1	1		Requests error image	
	ResetCounter	1	1		Resets all counter values	
	SetDefaultParams	1	1		Sets default parameters	
	ShowImage1	1	1		Requests last captured image A (bright one)	
Control	ShowImage2	1	1		Requests last captured image B (dark one)	
	EdgeMode	TRIGGER_EDGE_POS TRIGGER_EDGE_NEG	1		Set the trigger signal polarity: rising or falling edge if DirectMode = TRIGGER_DIRECT_EDGE high or low active if DirectMode = TRIGGER_DIRECT_LEVEL	
	TriggerReleaseOption	0/1	1		If set, sensor needs an external input signal to release the next trigger.	

Configuration Overview OIT

Config ID	Parameter ID	Value	Config Version		Description	From Firmware
			from	to		
Decoder	XStart	0-751	1		Horizontal distance of upper left corner of ROI	
	YStart	0-479	1		Vertical distance of upper left corner of ROI	
	RoiWidth	64-752	1		Width of ROI	
	RoiHeight	64-480	1		Height of ROI	
	DecoderPlate	INSPECTION_CB3_PLATE INSPECTION_CB1_PLATE	1		Sets type of plate to read	
	CaptureTwoImages	0,1	1		If set, sensor captures 2 images. If first read fails, sensor tries a second decode on the second captured images	
	ReducedFlashTimePercent	1-100	1		Set reducing exposure time for the second image in percent.	
	SuppressDuplicates	0,1	1		If set, sensor signals bad, if the same code reads again at next trigger	
	TimeoutDecode	0- 65534	1		Timeout for decoder in ms	
	CodetypeCB3	8 – 12	1		Set decode depth of CB3 code plate	
	Orientation	ORIENTATION_0DEG ORIENTATION_180DEG ORIENTATION_0DEG_MIRRORED ORIENTATION_180DEG_MIRRORED	1		Set orientation of CB3 code plate in image	
	CodetypeCB1	CODETYPE_6x6 CODETYPE_6x6_MIRRORED	1		Set orientation of CB1 plate in image	
Graphics	ShowClusters	0,1	1		Request graphical data for each found cluster after decoded image	
	HoldClusters	0,1	1		Vision Configurator do not clear last clusters from displayed image	