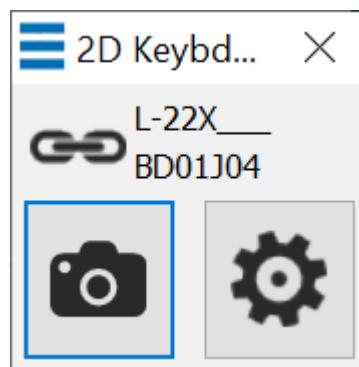



Opticon2DKeybdImg

Opticon 2D keyboard wedge take picture application





The information in this document is subject to change without notice.

Document History

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Revision History

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Edition	Date	Page	Section	Description of Changes
1st	12/05/2017	-	-	Initial release
2nd	12/07/2019			M-11 added, more information on scanner firmware.
3rd	24/11/2020			NLV-5201 added

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1 Getting Started

This is the user manual for the Opticon2DKeybdImng software for the MDI-3100 and MDI-4100 based 2D scanners.

1.1 Supported 2D Scanners

At this moment supported 2D scanners

MDI-3100 based scanners		MDI-4100 based scanners	
	L-50X		L-22X
	M-10		L-46X
	OPI-3601		L-51X
	NLV-3101		NLV-5201
MDI-5x00 based scanners			
	M-11		

1.2 Supported firmware versions

At this moment supported firmware versions, the xx stands for a 2-digit version number.

MDI-3100 based scanners	Remarks
BA01Jxx	With this version number it is not possible to trigger an image by the trigger button.
BA18Jxx	Has trigger support to capture an image.

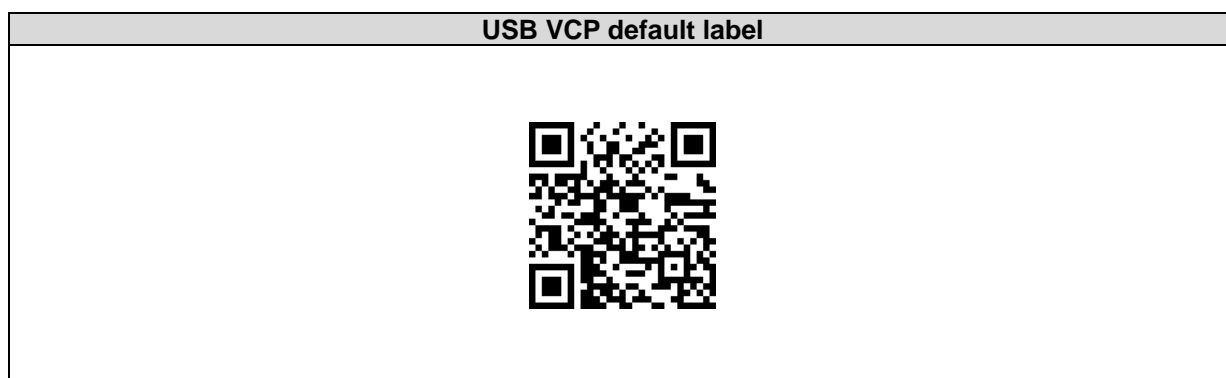
MDI-4100 based scanners	Remarks
BD01Jxx	MDI-4100 firmware version starting from BD01J04 have trigger support to capture an image.
BD52Jxx	NLV-5201 firmware

MDI-5100 based scanners	Remarks
BD50Jxx	The M-11 has automatic trigger support default enabled. The application disables auto trigger when going to into preview or capture mode. After the capture is done or preview is cancelled auto trigger will be enabled again.
BD55Jxx	

1.3 Initial setup

Plugin the USB cable in the PC.

The Opticon 2D scanner needs to be in USB VCP mode to create a USB serial COM port in the PC. If the Opticon 2D scanner has been setup as USB VCP scan the barcode below to change to USB VCP default.



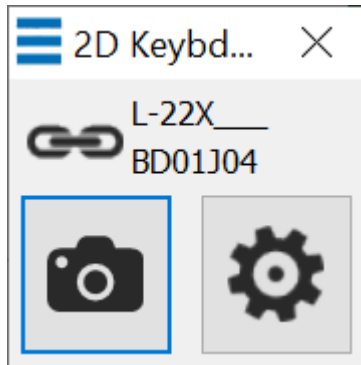
The Opticon 2D imager is now ready to be used with the OpticonKeybdImag software.

Start the OpticonKeybdImag software.

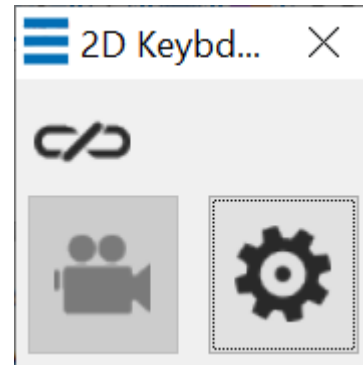
2 Application description

The Opticon2DKeybdImag application can read data from the connected scanner and translate it as HID keyboard information. When the viewer button is clicked the application can handle video and image output from the scanner to take a picture. After a picture is taken the application will return to HID keyboard mode.







2.1 Main application dialog



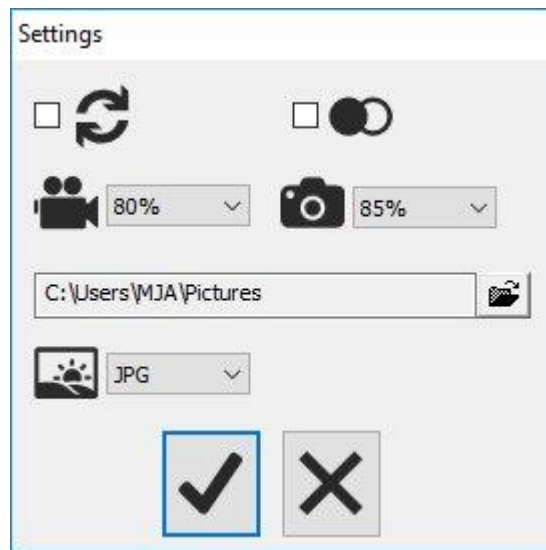
Main application dialog
with L-22X connected with firmware version
BD01J04











Main application dialog
nothing connected

Item	Item name	Description
	Connection status	No scanner connected.
	Connection status	Scanner is connected and the USB VCP opened.
L-22X__	Scanner name	Displays the name of the connected scanner
BD01J04	Scanner firmware	Firmware version of the connected 2D scanner
	Start capture image button	Click to start the capture image viewer. The connected scanner has built in trigger support to capture an image.
	Start capture image button	Click to start the capture image viewer. The connected scanner has no capture image trigger support.
	Start keyboard mode button	Click to closes the capture image viewer and scanned barcodes will be transmitted as keystrokes
	Settings button	Click this button to open the settings dialog.

2.2 Settings dialog



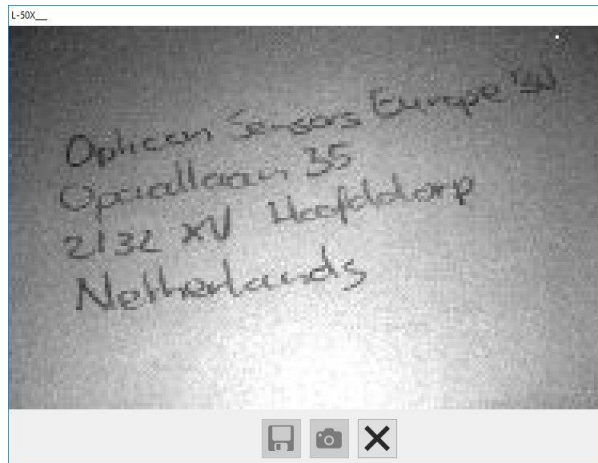
Settings dialog

Item	Item name	Description
	Rotate checkbox	When checked the output image will be rotated 180°.
	BW adaptive filter checkbox	When check the grey scaled image/video output is filtered to a monochrome black and white output.
	Video quality combobox	Set the video output quality. Increasing the video output quality can result in slower video performance.
	Image quality combobox	Set the image output quality. Increasing the image output quality can result in slower image download from the camera sensor.
	Storage Folder button.	Clicking this button will open the folder selection dialog. Default folder is the "my pictures" folder.
	Image format combobox	Select the image storage format. Supported formats are: BMP, JPG, PNG, GIF and TIFF.
	Validate button	Validate the changed settings and closes the dialog.
	Cancel button	Cancel the changes and close the dialog.

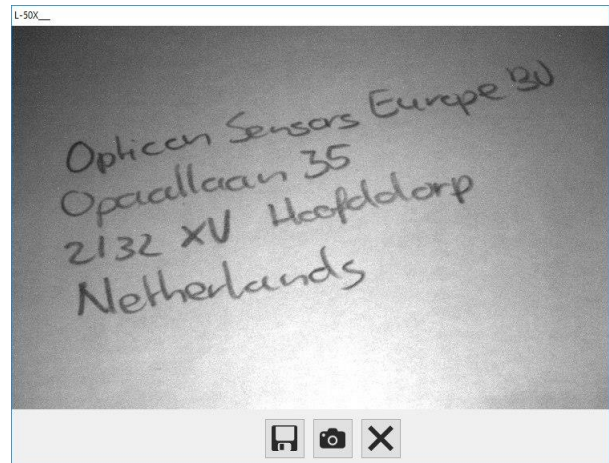
2.3 Viewer dialog

In the viewer dialog the application will show a low-quality video to be able to position the scanner.




2.3.1 Scanner with trigger support connected



Viewer dialog video output
Scanner has trigger support

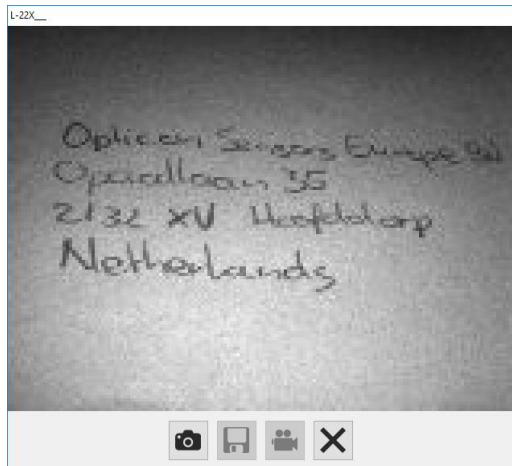


Viewer dialog after picture is taken
Scanner has trigger support

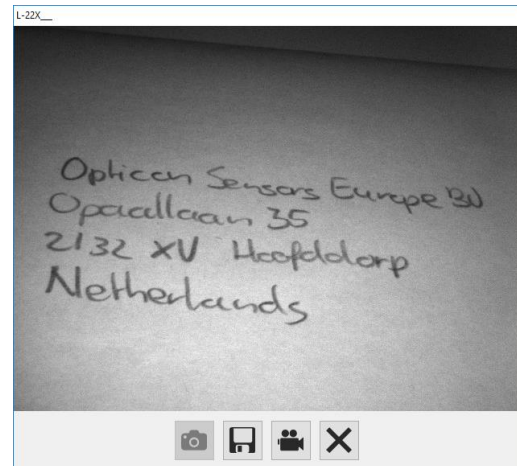
Item	Item name	Description
	Save image button	Save the captured image. The image will be saved at the selected location and with the selected image format from the Settings dialog. The naming format is: (Scanner name) Year Month Day Hour Minute count. Count start from 0 and if in the same minute another picture is taken count will increase. After the image is saved the viewer will be closed.
	Restart video button	Click this button to restart video output.
	Close button	Close the dialog.

When a picture has been captured or the dialog is closed the Opticon2DKeybdImag application will return to keyboard output mode.





2.3.2 Scanner without trigger support connected



Viewer dialog video output
Scanner has no trigger support



Viewer dialog after picture is taken
Scanner has no trigger support

Item	Item name	Description
	Capture image button	Click to capture an image.
	Save image button	Save the captured image. The image will be saved at the selected location and with the selected image format from the Settings dialog. The naming format is: (Scanner name) Year Month Day Hour Minute count. Count start from 0 and if in the same minute another picture is taken count will increase. After the image is saved the viewer will be closed.
	Restart video button	Click this button to restart video output.
	Close button	Close the dialog.

When a picture has been taken or the dialog is closed the Opticon2DKeybdImag application will return to keyboard output mode.