



**NI OCR**

20072370643F-0112

NI OCR OCR

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monospace

# Windows

- —/
- —
- —
- —
- —

# Windows

""National Instruments"

\*?prog\*programprogrammatically  
progress

1?extnexttext

example AND (program OR VI)example  
programexmaple VI5





- **AND—**
- **OR—**
- **NOT—2**
- **NEAR—**

- —
- —programprogramsprogrammatically  
progress
- —

# Windows

1.

2.

3.



1

4. **OK**

**PDF**

PDFPDFAdobe Reader

# OCR

NI OCR                      NI Vision AssistantNI Vision Builder AINI  
Vision Builder for Automated Inspection

OCR

1. → → **National Instruments** → **Vision** → **OCR Training**

2. → <Ctrl>

3.

## Vision Assistant

Vision AssistantOCR Vision AssistantOCR

1. → <Ctrl>

2.

3. OCR/OCV → **OCR/OCV**                      **OCR/OCV**

4. OCR/OCV

# **Vision Builder AI**

Vision Builder AIOCR Vision Builder AIOCR

1. Vision Builder for Automated Inspection:  
Configuration Help
2. Inspection Steps    **Identify Parts**    **Read/Verify Text**
3. Read/Verify Text Setup    **Mode**    **New Character Set File**



# OCR

OCR

- OCR
- .
- \_\_\_\_\_

# OCR

OCR

1. OCR

2. →

3.

- **NI Vision Vision Assistant**

a. <Vision>\Images\OCR Tutorial <Vision>NI  
Vision

b.

- NIOCRExample1.tif
- NIOCRExample2.tif
- NIOCRExample3.tif
- NIOCRExample4.tif
- NIOCRExample5.tif

<Ctrl>

c.

- **Vision Builder AI**

a. <Vision Builder AI>\DemoImg\OCR <Vision Builder  
AI>Vision Builder AI

b.

- NIOCRExample1.tif
- NIOCRExample2.tif
- NIOCRExample3.tif
- NIOCRExample4.tif
- NIOCRExample5.tif

<Ctrl>

c.

4. NIOCRExample1.tif

5. OCR  ROI

ROI

OCRROI

RO

---

6. BACE30

7. NIOCRExample2.tif

NIOCRExample1.tifROI NIOCRExample2.tif  
ROI OCR

8. **2ROI**OCR

9. **0** 1

1

10. B8F1E9

11. NIOCRExample3.tif

OCR NIOCRExample1.tifROI NIOCRExample2.tif

12. ROI

13. B7ODF4

14. NIOCRExample4.tif

OCR NIOCRExample1.tifROI NIOCRExample3.tif  
NIOCRExample4.tif3OCRA2

15. A2

16. 50

17. B85AA6

18. NIOCRExample5.tif

OCR NIOCRExample1.tifROI NIOCRExample4.tif

19.



20. B8CE72

## OCRROI

- —ROI
- —ROI
- —ROI<sub>xy</sub>
- —ROI
- —
- —01000
- —010001000

OCROCR0

OCR

1.

OCROCR

2.

—

3. →

NIOCRTutorial.abc **OK**

OCRNIOCRTutorial.abc

/

1. OCR
2. → 1<Ctrl>

3.

4.

5. ROI



OCRROI

ROIROI3

3

—  
6. 22OCRROI2OCR

7.

8. ROIROI

9.

10. 22

11. 310

12. →

13. —

ROIAPR32APROOCR

APR

OCRROIAPRO

PB

P

1. OCR
2. → 1<Ctrl>

3.

4.

5. ROI

OCRROI

ROIROI3

3

6. 22OCRROI2OCR

7.

8.

NI OCR



1. OCR
2. → 1<Ctrl>

3.

4.

5. ROI

OCRROI

ROIROI3

3

6. 22OCRROI2OCR

7.

8. OCR

9.

10.

# OCRROI

OCRROI

ROI —<Shift>

ROI —

ROI 1

• —

• —

2OCR

1. 22

- —ROI
- —ROINI OCR
- —ROI
- —ROI

2

2.

3.

4. **ROIROI**

5. **()** OCRROI

2OCR

ROI22

**2**

22

2

2

2

1. 2OCR

2. 2

3. 2 22

2

OCR22

OCR 2



ROI22

## ROIOCR

- —OCR
  - —
  - —
  - —ROI
  - —ROI (x)
  - (x)—
  - (y)—
- ROI 22

1.

2.

3.



OCR



4. /

5.

6. ROI

010001000



## OCRROI

- —ROI
- —ROI
- —ROI<sub>xy</sub>
- —ROI
- —
- —01000
- —010001000

OCROCR0

1. →

2.

3. **OK**

4. <Delete>

5. OCV

OCR /

6. 1



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OCR LabVIEW

OCR LabWindows/CVI

OCR Microsoft Visual Basic

OCR

OCR

1.

- —OCR
- —OCR

2. OCR        /%100

3. OCR

4. 01000

5. OCR

OCRLabVIEWLabWindows/CVIMicrosoft Visual BasicOCR  
OCR

- LabVIEW—[OCR First Example](#)<LabVIEW>  
examples\Vision\2.Functions\OCR\OCR First Example.vi  
<LabVIEW>LabVIEW
- LabWindows/CVI—[OCR First Example](#)  
<CVI>\samples\Vision\2.Functions\OCR\OCR First Example.prj  
<CVI>LabVIEW
- Microsoft Visual Basic—[OCR First Example](#)  
<Vision>\Examples\MSVB\2.Functions\OCR  
<Vision>\Examples\MSVB.NET\2.Functions\OCR <Vision>NI  
Vision

# OCR LabVIEW

OCR First Example    OCR    OCR

OCR First Example

1. <LabVIEW>\examples\Vision\2.Functions\OCR\OCR First Example.llb  
OCR First Example VI                      <LabVIEW>LabWindows/CVI
2. VI
3. **Open Character Set File**OCR  
NIOCRTutorial.abc
4. **Open Image**            NIOCRExample\*1            **Open**
5. **ROIRead**
  - **Read String**
  - **Time (ms)**OCR
6. **Return**

# OCR LabWindows/CVI

OCR First Example    OCR    OCR

OCR First Example

1. <CVI>\samples\Vision\2.Functions\OCR\OCR First Example.prj  
    <CVI>LabWindows/CVI
2. **Build** → **Configuratio** → **Debug**            **Run** → **Debug OCR First Example.exe**
3. **Open Character Set File**OCR  
    NIOCRTutorial.abc
4. **Open Image**            NIOCRExample\*1            **Load**
5. **ROIRead**
  - **Read String**
  - **Time (ms)OCR**
6. **Quit**

NI90NINI

NI(RMA: Return Material Authorization)NINI

NININI

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[ni.com/patents](http://ni.com/patents)

- NI Vision Concepts Manual—
- NI Vision for LabVIEW VI Reference Help —LabVIEWVINI Vision
- NI Vision for LabWindows/CVI Function Reference Help —LabWindows/CVINI Vision
- NI Vision for Visual Basic Reference Help—Visual Basic NI Vision
- NI Vision Assistant—NI Vision Assistant
- NI Vision Builder for Automated Inspection: Configuration Help— Vision Builder AI

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# OCR Microsoft Visual Basic

OCR First Example    OCR    OCR

OCR First Example

1. <Vision>\Examples\MSVB\2.Functions\OCR  
    <Vision>\Examples\MSVB.NET\2.Functions\OCR    OCR First  
    Example.vbp            <Vision>NI Vision
- 2.
3. **Open Character Set File**OCR  
    NIOCRTutorial.abc
4. **Open Image**            NIOCRExample\*1            **Open**
5. ROI
  - **Read String**
  - **Time (ms)**OCR
6. **Quit**

|  |                      |
|--|----------------------|
|  |                      |
|  | 972 0 3 6393737      |
|  | 39 02 413091         |
|  | 91 80 41190000       |
|  | 44 (0) 1635 523545   |
|  | 1800 300 800         |
|  | 43 662 457990-0      |
|  | 31 (0) 348 433 466   |
|  | 800 433 3488         |
|  | 82 02 3451 3400      |
|  | 1800 226 5886        |
|  | 41 56 2005151        |
|  | 46 (0) 8 587 895 00  |
|  | 34 91 640 0085       |
|  | 386 3 425 42 00      |
|  | 662 278 6777         |
|  | 886 02 2377 2222     |
|  | 86 21 6555 7838      |
|  | 420 224 235 774      |
|  | 45 45 76 26 00       |
|  | 49 89 7413130        |
|  | 90 212 279 3031      |
|  | 0800 553 322         |
|  | 81 3 5472 2970       |
|  | 47 (0) 66 90 76 60   |
|  | 385 (0) 9 725 72511  |
|  | 33 (0) 1 48 14 24 24 |
|  | 512 683 0100         |
|  | 32 (0) 2 757 0020    |
|  | 55 11 3262 3599      |
|  |                      |



|  |                    |
|--|--------------------|
|  | 48 22 3390150      |
|  | 351 210 311 210    |
|  | 1800 887710        |
|  | 27 0 11 805 8197   |
|  | 01 800 010 0793    |
|  | 961 (0) 1 33 28 28 |
|  | 7 495 783 6851     |