

# Cognition® Enterprise Edition

## Forms Processing Solution



### **Quickly and accurately transform paper documents into valuable intelligence.**

In today's fast-paced business environment, the need has never been greater for organizations to efficiently manage the thousands of forms, faxes and paper images they must handle every day. That's why so many have turned to Scantron's Cognition software. This forms processing solution automates the slow, labor-intensive data entry process. The result is efficient and accurate automated forms processing, data collection and input environments that scale to fit the needs of any size company. Cognition works by collecting paper forms and documents and digitizing them, then delivering them to the right databases and other business applications as needed.

#### **Fast**

Cognition takes just a few seconds per form, depending on form complexity and hardware specifications. (That's more than 20 times faster than a professional typist.)

#### **Precise**

Cognition recognizes handprint (ICR), machine print (OCR), bar code, checkboxes and checkmarks (OMR) with unerring precision.

#### **Accurate**

Cognition provides correct and valid data and image capture using configurable recognition options that allow crosschecks, validation rules, and business logic. You can also add application-specific capabilities or create custom validation rules and logic to fit any project requirement.

#### **Efficient**

Cognition's high processing speed, quality of recognition, automatic control of output results and competitive pricing makes it not only the best value, but the most efficient automatic data capture system available.

### **Cognition Enterprise Edition for multiple workstations.**

The Cognition Enterprise edition is a client-server application designed for enterprise-level forms processing. It features a flexible architecture that uses multiple workstations to distribute and streamline processing, and can be easily expanded as needs increase.

It integrates seamlessly with databases and can be easily incorporated with other document management applications using the Application Programmers Interface (API).

Enterprise edition provides a complete solution for organizations that process a variety of forms and need to read bar code, checkboxes and checkmarks (OMR), machine print (OCR), and handprint (ICR) from department forms and surveys.



## Scan

- TWAIN scanner support
- ADF support and manual input feeding
- Page orientation detection
- Import of graphic formats (TIFF, JPG, PCX, DCX, PNG & BMP)
- Image pre-processing, deskewing and “noise” cleaning
- Compensation of linear distortions using “cornerstones” (for faxed forms etc.)

## Recognize

- Build-in template designer
- Template auto-identification
- Various reference elements: blacksquares, text, lines, images
- OCR/ICR “Fountain” Image Transformation Technology
- Hand-print, machine print and mixed text
- Mark sense (OMR): check boxes, radiogroups, any type of mark
- Bar code recognition: EAN13, EAN8, Check Code 3, Check Interleaved 25, Code 39, Code 128
- 18 languages for hand-print recognition: English, German, French, Italian, Russian, Polish, Ukrainian, Bulgarian, Czech, Slovak, Lithuanian, Spanish, Dutch, Finnish, Romanian, Turkish, Croatian and Hungarian
- Bordered text: framed, text over comb, underlined

- Multi-line text
- Field position detection
- Supports several styles of handwriting: European, American, Russian, Japanese, and Thai
- Scan & Read / Open & Read modes
- Background recognition
- Interpretation of checkboxes marked by mistake (“shaded areas”)

## Verify

- Standard validation and automation rules
- Spell check
- Contextual checking
- Pre-defined data types: names, addresses, etc.
- User-defined data types
- Checks against databases
- Context and group verification and in-form data validation

## Export

- Database (ODBC)
- File ( XML, TXT, CSV, DBF, XLS )
- Standard picture export
- Automation export

## Minimum Server Requirements

- PC with Pentium 300 MHz processor (Windows Server 2003, XP); Pentium 200 MHz processor (Windows: 2000, NT 4.0)
- Microsoft Windows Server 2003, Server 2000 (SP2 or higher), XP, 2000 Professional (SP2 or higher), Cyrillic support is required for the Russian interface
- 256 MB (MS Windows Server 2003, XP), 128 MB (MS Windows XP, MS Windows 2000)
- 15 MB of hard-disk space for Server, 75 MB for MSDE, 375 MB if installation files are copied onto server for remote installation, additional disk space to store batches
- Microsoft Internet Explorer 5.0 or higher
- Mouse or other pointing device
- CD-ROM drive
- SVGA monitor (resolution 600 x 800 or higher)
- USB port (MS Window: Server 2003, 2000, XP) for hardware protection key

## Minimum Station Requirements

- PC with Pentium 350 MHz processor (MS Windows: Server 2003, XP); Pentium 200 MHz processor (MS Windows: 2000, NT 4.0, Me, 98)
- Microsoft Windows Server 2003, XP, Server 2000 (SP2 or higher), MS Windows 2000 Professional (SP2 or higher), Me, 98. Cyrillic support is required for the Russian interface.
- 128 MB RAM (Windows Server 2003, XP); 64 MB RAM (Windows Server 2000, Me, 98)
- 170 MB of hard-disk space for minimal installation (one interface and one data type); 5 MB of hard-disk space for minimal installation of each additional station; additional hard-disk space to create local batch copies
- Microsoft Internet Explorer 5.0 or higher
- Mouse or other pointing device
- CD-ROM drive (in case of CD-ROM installation)
- SVGA monitor (resolution 600 x 800 or higher)
- 100% TWAIN-compatible scanner (for Scanning Station)



Please visit us at [www.scantron.com](http://www.scantron.com) for a complete overview of Cognition's system requirements or call us at (800) 722-6876 for more information.