



CognitiveTPG  
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## Cxi & Ci PRINTER SPECIFICATIONS

Specifications are provided for reference and are based on printer tests using CognitiveTPG brand ribbons and labels. Results may vary in actual application settings or when using products other than recommended CognitiveTPG supplies. CognitiveTPG recommends always qualifying any application with thorough testing.

### Standard Features

- ✓ **NEW!** Compact Industrial™ printer design, small footprint high performance
- ✓ **NEW!** Administrator Configuration Software
- ✓ **NEW!** Ethernet 10/100 Base-T interface
- ✓ **NEW!** Bi-directional USB Drivers
- ✓ **NEW!** LCD control panel: Back-lit, 2 line, 16 characters (Cxi only)
- ✓ **NEW!** Easy to navigate user setup menus (Cxi only)
- ✓ **NEW!** 200 MIPS, 180MHz, 32 bit RISC Processor
- ✓ **NEW!** 16 MB SDRAM memory
- ✓ **NEW!** 8 MB flash memory for firmware and stored objects
- ✓ **NEW!** Real Time Clock
- ✓ **NEW!** Hinged media cover to accommodate large capacity rolls
- ✓ **NEW!** Double clamshell design for simple media loading
- ✓ **NEW!** Rugged die-cast metal user interface
- ✓ **NEW!** Audible indicator for error warning or document alert
- ✓ 203 dpi print resolution (8 dots/mm)
- ✓ Upgradeable firmware and stored objects
- ✓ Direct thermal printing
- ✓ CPL programming language
- ✓ Parallel, Serial, USB-A, USB-B, and Ethernet communication ports
- ✓ **NEW!** USB-A Host Control with HID Class & Memory Storage Device
- ✓ Adjustable position transmissive and reflective index sensing technology to accommodate a wide variety of print media
- ✓ Cognitive® printer driver for Windows™ XP & 2000 operating systems
- ✓ NiceLabel® SE - Windows™ based WYSIWYG on-screen label design and print application demo software

### Optional Features

- 2" and 4" Print width models
- Thermal Transfer Printing
- 300 dpi Print Resolution (12 dots/mm) - 2" & 4" models
- **NEW!** Only 2" 300dpi printer on the market

### Printing Specifications

Nominal Printer Size	2" Ci or Cxi		4" Ci or Cxi	
	203 dpi Standard	300 dpi Optional	203 dpi Standard	300 dpi Optional
Print Resolutions	203 dpi Standard	300 dpi Optional	203 dpi Standard	300 dpi Optional
Max Print width	2.118" (53.8mm)	2.205" (56.0mm)	4.094" (104.0mm)	4.153" (105.5mm)
Print Speeds	4-6 ips Ci 4-8 ips Cxi	2-6 ips Ci 2-6 ips Cxi	4-6 ips Ci 4-8 ips Cxi	2-6 ips Ci 2-6 ips Cxi
Max Print Lengths	322" (8179 mm)	218" (5537 mm)	322" (8179 mm)	153" (3886 mm)
Print Position Tolerance	±0.0625" (1.6mm) Left and right			

### Media Specifications

**Media Types:** Direct thermal or thermal transfer labels, tags, wristbands, static labels, and receipt paper.

**Media Thickness:** 0.010" thickness max.

**Index types:** Reflective and transmissive sensors to detect gaps between labels, die-cuts, black-marks, notches, and holes

**Media Format:** Continuous fanfold (external) or roll with optional inter-sheet perforations for easy media separation

**Media Web Width (label and liner):**

2" Printer: 0.5" (12.7mm) to 2.84" (72mm)

4" Printer: 2.4" (60.96mm) to 4.63" (117.6mm)

**Minimum label length:** 0.375" (9.5mm) with .125" gap

**Maximum media roll size:** 7.750" (194mm) O.D. on a 1.5" (38.1mm) ID. Core

### Media Indexing

**Indexing Sensing Methods:** Continuous, gap, bar, notch, and hole

**Gap and notch sensing standards:** Minimum Inter-label gap: 0.125" (3.18mm)

**Gap Sensing Width Range:**

2" Printer: User adjustable 1" right of center to 1.2" left of center

4" Printer: User adjustable from center to 2.2" left of center

**Black mark sensing standards:** Black mark length (parallel to inside media edge): 0.125"(3.18mm)- 1.0"(2.54mm)

**Black Mark Sensing Range:** User adjustable in increments of 0.2" left and right to within 0.5" of edge of the maximum media web width.

### Ribbon Specifications

**Ribbon width:**

2" Printer: 2.4" (61mm) Max.

2" Nominal Length: 6500" (165m) Max.

4" Printer: 4.25" (108mm) Max.

4" Nominal Length: 5500" (140m) Max.

**Ribbon Types:** Wax, Wax/Resin, and Premium Resin varieties

### Label Roll Changes per Ribbon

Label Roll OD	Label Roll ID	2" Label Rolls per Ribbon Roll	4" Label Rolls per Ribbon Roll
5"	1.5"	2.4	2
7"	1.5"	1	.85

\* 7: Label Roll OD = Equivalent to 8" Roll /Label Capacity

## Font Specifications (CPL)

- **Bitmapped:** 7 styles with up to 10x10 magnification, variable boldness and spacing.
- **International AGFA Fonts:** Sans-serif font in 7 pt. sizes, up to 4x4 magnification, variable boldness and spacing.
- **Scalable Vector Fonts:** 3 ultra font styles for smooth characters in any size and boldness.
- **Rotations:** 0, 90, 180, 270 degrees

## Bar Code Symbolologies & Specifications

UPCA	ADD 2	EAN 8	128C
UPCE	ADD 5	EAN 13	CODE128
UPCE1	CODE 39	PLESSEY	EAN128
POSTNET	I 2OF5	128A	CODABAR
Maxicode mode 0	CODE 93	128B	MSI
PDF417	DataMatrix	QR Code	Aztec
UPCA+	MSII	S20F5	D20F5
RSS			

## Cognitive Programming Language (CPL)

- Communicates in printable ASCII characters
- Compatible with mainframe, mini, and PC hosts
- Downloadable objects include graphics and bitmap fonts
- Automatic serialization of fields
- Format inversion (white on black)
- Four position field rotation (0°, 90°, 180°, 270°)
- Programmable label quantities with print and pause control
- Status messages to host upon request

## Communications Specifications

**Parallel Interface:** Centronics parallel interface (requires custom cable)

**High-speed serial interfaces:**

- Serial RS-232 (requires custom cable)
- Configurable baud rate (1,200 – 115,200 baud)
- Software (XON/XOFF) or hardware (DTR/DSR) communication handshake protocols

**USB 2.0 compatible interface**

**Ethernet 10/100 Base-T interface**

## Electrical Specifications

Auto-detectable 90-264VAC, 24VDC 150W power supply

## International Environment Compliance

- Compliant with the following international environmental directives:
- Directive 2002/95/EC on the restriction of Use of certain Hazardous Substances in Electrical and Electronic Components (RoHS)
  - Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE)

## International Regulatory Compliance

- **Printer and Power Supply:** UL, FCC Class A, CCC, CE, CISPR22/CB.
- **Power Supply Only:** CSA GS/TUV/VDE/PSE

## Environmental Specifications

**Operating environment:**

41° to 104°F (5° to 40°C)

20% to 85% non-condensing R.H.

## Physical Specifications

Characteristic	2" Cxi or Ci Printer	4" Cxi or Ci Printer
Height	7.1" (181mm)	7.1" (181mm)
Width	5" (127mm)	6.9" (175mm)
Depth	10.04" (255mm)	10.04" (255mm)
DT Weight	5.02 lbs (Cxi) 4.91 lbs (Ci)	5.91 lbs (Cxi) 5.88 lbs (Ci)
TT Weight	5.23 lbs (Cxi) 5.00 lbs (Ci)	6.10 lbs (Cxi) 6.00 lbs (Ci)

## Software

- **C Series Administrator:** Printer with USB/Serial bi-directional configuration software, included with printer requires Windows driver installation.
- **C Clean Driver Utility:** Self contained driver cleanup utility that entirely removes old drivers.
- **Windows™ OS Drivers:** Printer drivers that allow applications running on Windows operating systems to print to CognitiveTPG printers.

## Accessories

Part Number	Description
370-002-01	Auto-Ranging power supply
370-003-01	US Power Cord
115-008-02	Parallel Cable
115-006-02	Serial Cable
115-007-02	5VDC Serial Adapter
115-005-01	USB Cable
470-054-01	Spindle 2", Large Media Roll
470-055-01	Spindle 4", Large Media Roll

## Preventative Maintenance

CognitiveTPG recommends cleaning the printer on a regular basis using standard CognitiveTPG printer parts and cleaning supplies. Consult your User's Guide for further details.

### Cleaning

The exterior is cleaned with a lint-free cloth, and if necessary, a mild detergent solution in a damp cloth. It is recommended that interior components are cleaned with the authorized cleaning supplies listed below every 20,000 inches (508 m) or blown air to remove any particles. The printhead should be cleaned every 5000 inches if preprinted labels are used. The platen should be cleaned at the same interval, using the same cleaning materials as applied to the printhead

### Cleaning Supplies

The following cleaning supplies have been qualified and approved for use with the Cxi and Ci printers.

- Cleaning Pen (12 ea), p/n: 14-00-0002

## Warranty

**Printer:** 24 months from date of purchase (Requires registration and excludes printheads)

**Print head:** 6 months or 500,000 inches using CognitiveTPG's approved media

### MTBF (Mean time between failures)

2,000,000 inches (Does not include printhead dots out condition)

## Support

- World Wide Web: [www.cognitivetpg.com](http://www.cognitivetpg.com)
- E-Mail: [support@cognitivetpg.com](mailto:support@cognitivetpg.com)
- Telephone: (800) 732-8950 x4 or 607-274-2500 x4