

BIXOLON®

*Faster, Smarter and more Capable
BIXOLON Direct Thermal Label Printer*

SLP-D420 Product Guide



3.Feb.2010

Faster, Smarter and more Capable, SLP-D420



Faster

- Fast printing speed 6 IPS, 152mm per second
- Fast processing 32 bit CPU
- High speed USB 2.0

Smarter

- USB, Serial, Parallel all in one board, Internal/external Ethernet
- Movable media sensor
- Low power consumption, Power saving mode
- Intelligent Leap-Over function
- Scalable fonts, Multiple programming languages
- IMB (Intelligent Mail Barcode), USPS 4 state
- Barcode oriented Windows drivers, Utility programs

more Capable

- 4MB flash memory, 8MB SDRAM
- 23 code pages
- Scalable fonts
- Free label design program
- External paper supplier

1. Advanced Hardware features

- Fast Print Speed 6 inches Per Second (**152mm per second**).
- Various Interfaces including USB, Serial & Parallel as Standard.
- Ethernet Option (Internal or external) Available
- High speed USB 2.0 supported.
- High resolution (300 dpi optional) of printing
- Bigger memory capacity **4MB flash memory & 8MB SDRAM**
- Easy-to-recognize Status indicators

2. Intelligent Firmware features

- **Vector font (Scalable font)** supported
- Multi programming languages (Automatic switching) : **SLCS, EPLII, ZPLII**
- **23 Code pages supported**
- Environment friendly **Lower power consumption, power save mode**

3. User Friendly Software features

- Barcode oriented Windows driver
- Easy-to-use Unified Label Utility program
- **Free label design program**

4. Value-added features

- **Peeler Standard**
- Easy-to-recognize Status indicators
- **Short label** (minimal height of label up to 5mm) printing supported
- **Intelligent leap-over™** (Detect empty label and leap over to next label)
- Various Options Auto-Cutter Type Model and External paper supply



Manufacturing

- Inventory control
- Asset Management



Logistics

- Shipping, receiving
- Delivery, Pallet



Healthcare

- Blood specimen
- Patient tracking
- Medicine labeling



Retail

- Shelf labeling
- Inventory control
- Product marking
- Coupon, Ticket, Lottery printing

Hardware Highlights

✓ **Fast and Intelligent**

- Fast printing speed 6 inches per second (**152mm per second**)
- Bigger memory capacity **4MB flash memory , 8MB SDRAM**
- High resolution printing
 - 203 dpi Standard
 - 300 dpi Optional



✓ **All in one board**

- Serial, Parallel and USB all in one standard
- Optional Ethernet version (SLP-D420E)
- Bi-direction communication with all interfaces
- Firmware download via Serial, Parallel and USB

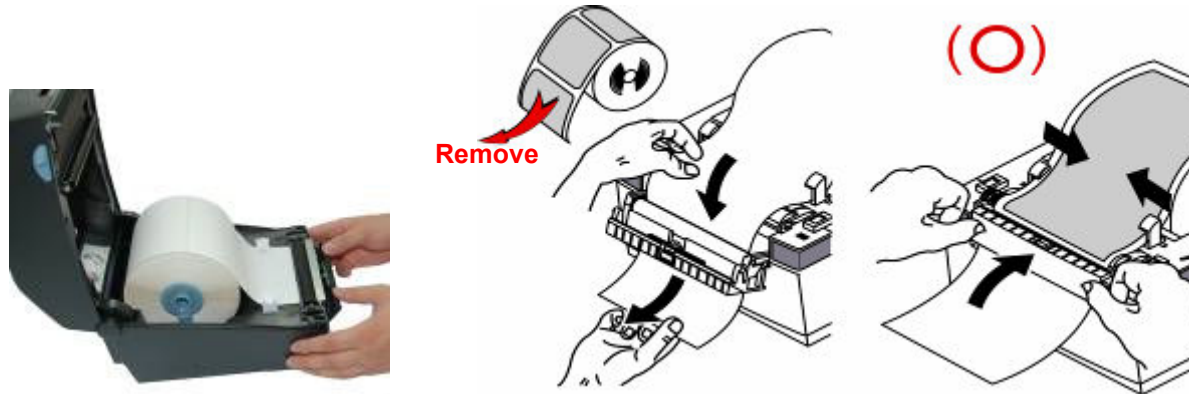


All In One board
(Serial / Parallel / USB)



Ethernet version (SLP-D420E)
(Serial / Ethernet / USB)

- ✓ Easy to use paper loading and peeling



✓ **Movable Media Sensor (Left ↔ Right)**



Transmissive sensor
(Gap, Media sensor)



Reflective sensor
(Black Mark Sensor)

✓ Easy-to-recognize Status indicator

LED Type		Printer Status
Status	Error	
Green On	Green On	Normal status, on standby to receive data from the host (e.g. PC)
Red On	Red Blinking	Ribbon cover opened
Red On	Orange Blinking	No paper
Red On	Green Blinking	Print stoppage due to TPH (print head) overheating
Off	Red On	On standby for user button input for automatic sensor level correction
Green Blinking	Red On	Print stoppage after input of Pause button, Press Pause button again to resume printing
Green On	Red Blinking	Print cancellation after input of Cancel button, Press Cancel button to return to standby mode, all data received deleted in Cancel mode
Green On	Off	Power Save mode activated

Firmware Highlights

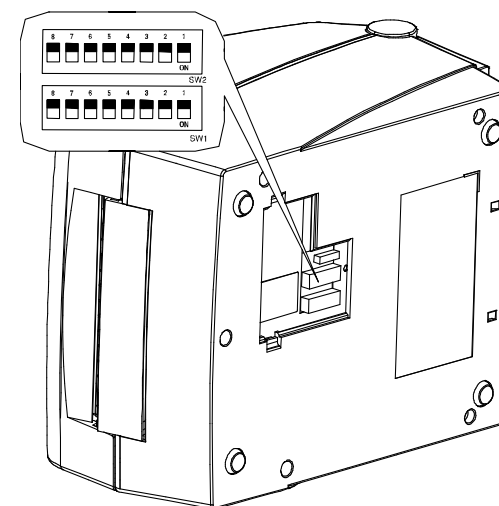
✓ **Multi Programming languages : Automatic switching**

1. SLCS : Bixelon-Samsung Commands, standard
2. EPL II : Eltron Commands, standard
3. ZPL II : Zebra Commands, standard

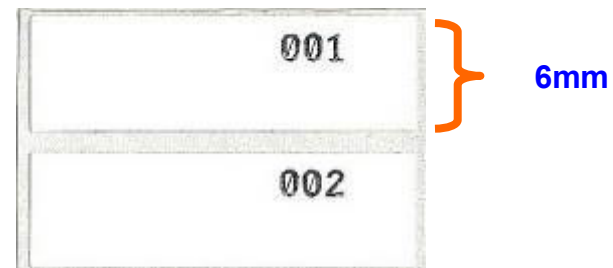
4. Optional manual switching commands
 - ESC/POS : Receipt printing, 6th switch of 1st bank – ON
8th switch of 2nd bank - ON
 - DPL : Datamax Commands, 5th switch of 2nd bank – ON

✓ **Simple to use but Variable to use Dip switch options**

- Printing speed selection
- Printing density selection
- Exhibition mode : Continuous specimens printing
- Media selection (Label or Thermal continuous)
- Auto-Cutter selection
- Back Feed option
- Baud rate selection
- Media detection (Detect Gap, Detect Black mark, Continuous)
- Emulation
- Busy Condition
- Paper end sensor status
- Long label split printing



- ✓ The minimal label height down to 6mm

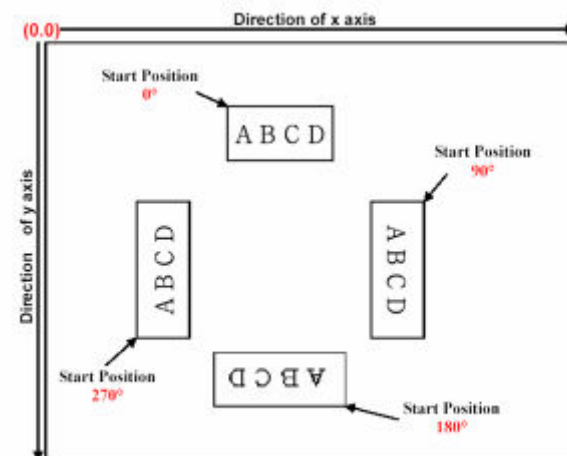


- ✓ Intelligent leap-over™



✓ Powerful Barcode types and Template function

- Bar Code : 1D, 2D (Maxi code, PDF417, QR-Code, Data Matrix), IMB, USPS
- Text Printing : Multiply, Bold, Reverse and Rotation functions
- Block Printing : Line, Box, Slope printing supported
Overwrite, Exclusive or Delete mode supported
- Graphic : PCX, BMP



Example of rotation

✓ **23 Code pages on standard printer**

- CP437(U.S.A), CP850(Latin 1), CP852(Latin 2), CP860(Portuguese), CP863(Canadian French), CP865(Nordic), WCP1252(Latin 1), CP865+WCP1252(European Combined), CP857(Turkish), CP737(Greek), WCP1250(Latin 2), WCP1253 (Greek), WCP1254(Turkish), CP855(Cyrillic), CP862(Hebrew), CP866(Cyrillic), WCP1251(Cyrillic), WCP1255(Hebrew), CP928(Greek), CP864(Arabic), CP775(Baltic), WCP1257(Balitic), 858 (Latin I + Euro)

✓ **Sheriff protection logic**

- After firmware download, printer checks the installed font version and print warning message if font and firmware versions are not compatible

✓ **Lower power consumption, power save mode**

- When the printer is not used, the Power Save mode is activated to save power.

If the printer is not used for more than 20 seconds, it enters the Power Save mode. (Factory setting)
when a command or external input is given, the Power Save mode is deactivated

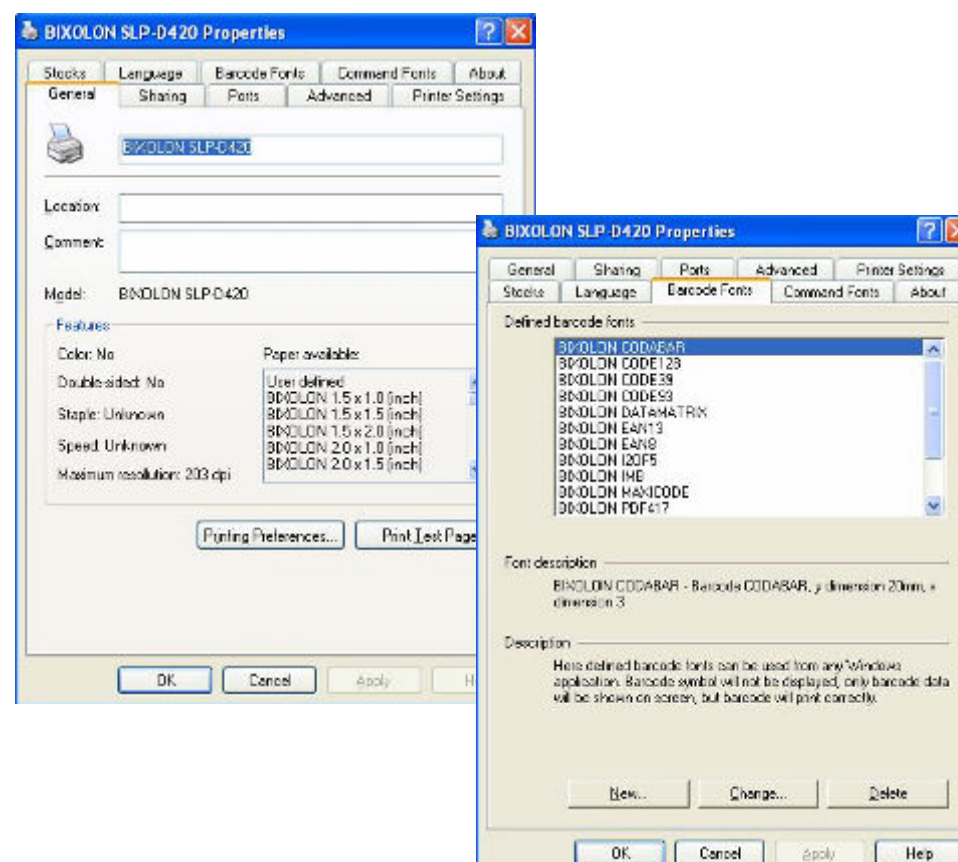


Software Highlights

✓ Full featured Windows driver

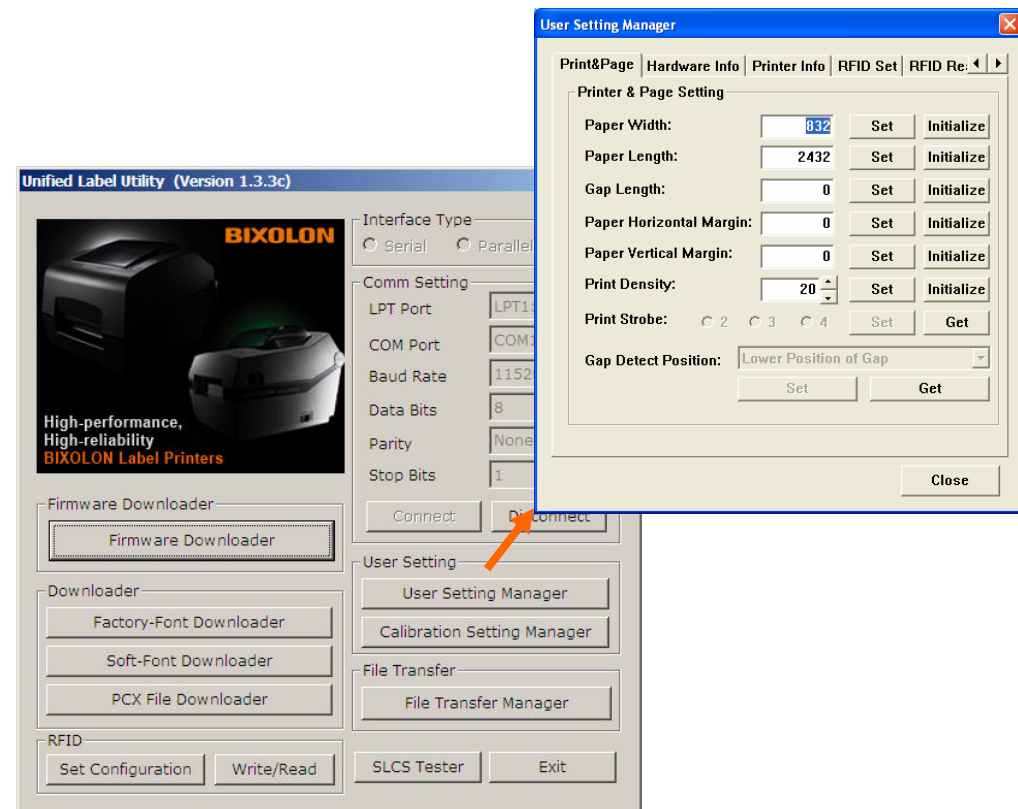
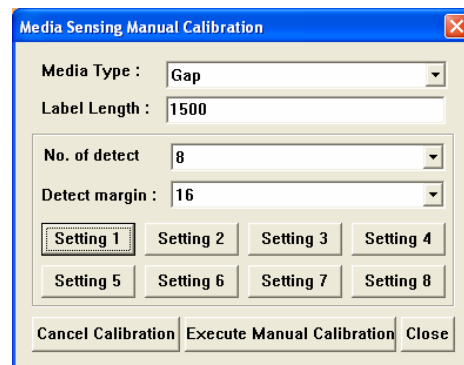
Windows Driver Highlights

Barcode font	✓
Font download	✓
Multi language	✓
Label size stock	✓
User setting saving	✓
Printer font	✓



✓ Easy-to-use Unified Label Utility program

- ✓ Firmware download
- ✓ Font download and save
- ✓ Language setting
- ✓ Paper setting
- ✓ RFID setting
- ✓ Getting and setting printer status
- ✓ Manual calibration
- ✓ Command test (SLCS Tester)

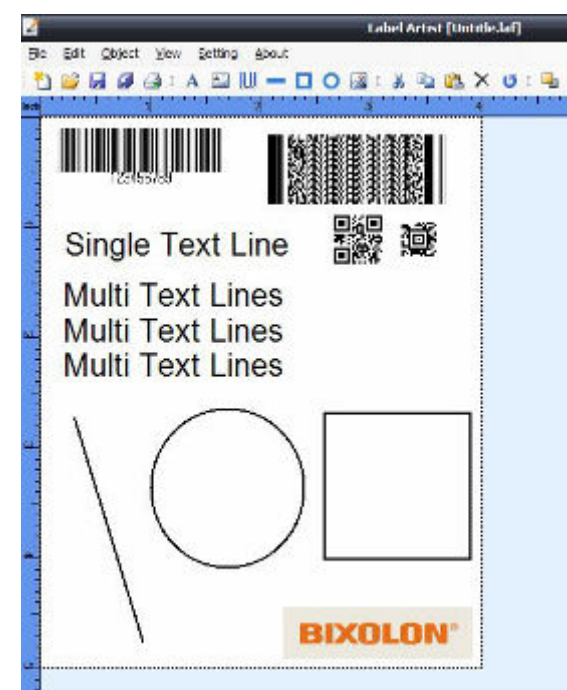


✓ Free label design program (Fully featured)

Compatible Label design Software		Windows driver	Language
TekInx	Label View	BIXOLON V4.5.4.2	EPL
Seagull	Bar Tender	Seagull V7.1.7	EPL
Euro Plus	Nice Label	BIXOLON V4.5.4.2	SLCS
Label Craft	Label Craft	No driver needed	SLCS
BIXOLON	Label Artist	Label Artist V1.0.2	SLCS



< BIXOLON Label Artist>



Options

✓ **Various options**



Serial + Ethernet + USB

Ethernet version (SLP-D420E)



Auto-Cutter Type (SLP-D420C)



External paper supply (LES-400)
(Max.ø 220mm)

Specifications

New

Items		Zebra G-Series	TEC B-SV4D	SEWOO LK-B30	SRP-770II	SLP-D420
Image						
Print	Speed	Max 127mm/s(GK) Max 152mm/s(GX)	Max 127mm/s	Max 152mm/s	Max 127mm/s	Max 152mm/s
	Resolution	203dpi / 300dpi(opt)	203dpi	203dpi	203dpi	203dpi / 300dpi(option)
	Width	104mm	108mm	104mm	104mm	104mm
Paper	Width	19 ~ 108mm	20 ~ 112mm	18 ~ 118mm	43 ~ 106mm	25 ~ 116mm
	Length	9.7 ~ 990mm	Max 609.6mm	Max 630mm	21 ~ 304mm	6 ~ 1000mm
	Roll O.D	Max 127mm	Max 127mm	Max 127mm	Max 130mm	Max 130mm
	Thickness	0.08 ~ 0.19mm	0.06 ~ 0.19mm	0.06 ~ 0.18mm	0.06 ~ 0.19mm	0.06 ~ 0.19mm
Memory		4MB Flash (Std) 8MB SDRAM(Std)	2MB Flash (Std) 8MB DRAM(Std)	4MB Flash (Std) 8MB SDRAM(Std)	2MB Flash 512KB SRAM	4MB Flash 8MB SDRAM
Interface		Serial, Parallel, USB	Serial, Parallel, USB	Serial, Parallel, USB	Serial, Parallel, USB	Serial, Parallel, USB Ethernet
Sensor		GAP, Black Mark (Fixed), Notch, (Movable-Option)	GAP, Black Mark (Movable), Notch	GAP, Black Mark (Movable), Notch	GAP, Black Mark (Fixed), Notch	GAP, Black Mark (Movable), Notch
Size (WxDxH mm)		171 x 210 x 152	200 x 232 x 169	190 x 254 x 169	184 x 221 x 171	190 x 243 x 171
Peeler		Option	Option	Option	Standard	Standard