RANGE BROCHURE

GAME CHANGER BIXOLON

Healthcare Printer Series

Enhancing Safety and Operational Efficiency





From Patient Safety to Asset Management

Empower healthcare workflows with BIXOLON's labelling solutions, purpose-built for medical environments.

Accurate, legible labelling is vital in healthcare for patient safety, regulatory compliance, and operational efficiency. From identifying patients and specimens to managing medications and assets, to accurate and durable labelling solutions that create the foundation for traceability and error prevention. BIXOLON's range of label printers specifically built for healthcare sector can be easily integrated with EMR, LIS, and pharmacy management systems for automated, streamlined workflows to help organizations improve safety, meet regulatory compliance while reducing maintenance requirements.

Patient Care & Safety

BIXOLON desktop label printers ensure fast and accurate printing of patient wristbands and identification labels. Their reliable performance and healthcare-grade design support hygienic, on-demand use at the point of care. By enabling positive patient identification, they help reduce errors and enhance overall patient safety.

Applications:

- Patient Identification

Clinical & Laboratory Diagnosis

In laboratory and diagnostic settings, BIXOLON printers provide consistent and accurate print precision for specimen labelling, ensuring that every sample is accurately identified and traceable. They ensure reliable tracking throughout collection and testing. This precision supports accurate results and compliance in laboratory workflows.

Applications:

- Specimen Labelling
- Lab Storage Labelling

Medication Management

By supporting barcode-based medication management, BIXOLON desktop label printers help prevent errors and support patient safety. The solutions produce clear, durable labels for unit-dose packaging, IV bags, and pharmacy dispensing. The thermal transfer technology provides resistance to smudging and solvents, keeping critical data legible.

Applications:

- Medication & Pharmacy Labelling
- Blood Bank & Transfusion Labelling

Equipment Management

For hospitals focused on operational safety, BIXOLON printers deliver reliable labelling solutions for instrument tracking and equipment management. They produce heat and chemical resistant labels that withstand autoclave sterilisation, disinfection, and repeated handling. These durable labels support the monitoring of surgical instruments throughout sterilisation cycles.

Applications:

- Sterile Instrument Tracking
- Asset & Equipment Tracking



Hospital Logistics & Supply Chain

Across the hospital supply chain, BIXOLON's labelling solutions streamline hospital logistics by producing shipping, storage, and transport labels. Their fast, reliable printing supports accuracy in specimen transport and supply distribution. This ensures smooth workflows and efficient inventory control across healthcare facilities.

Applications:

- Hospital Logistics Labelling

Why BIXOLON Healthcare Printers?

1 Disinfectant-Ready Housing
BIXOLON healthcare printers feature UV-resistant plastics for easy, frequent cleaning and resistance to discoloration.

2 Medical-Grade Compliant
The healthcare-grade (IEC 60601-1) power adapter ensures safe and reliable operation in patient care and bedside environments.

3 Easy Integration
Support for BPL-Z™, BPL-E™ and Ethernet, Wi-Fi connectivity enable direct integration into hospital systems and pharmacy systems.

4 Efficient Management & Security
Support for BIXOLON's printer profile management XPM™, XCM™ reduce IT overheads and enable encrypted data transmission (TLS, HTTPS) for protection of health information.

5 Regulatory Compliance
A range of barcode symbologies are supported to meet requirements for FDA UDI, ISBT 128 (blood labelling), and GS1 barcoding.

6 High Print Quality
Optional higher resolution of up to 300 dpi is ideal for small barcodes on vials, slides and medication labels.

BIXOLON Healthcare Printer Lineup

Designed to ensure accuracy, traceability, and hygiene across every point of patient care, BIXOLON's 2 and 4-inch desktop label printers are built with disinfectant-ready, antimicrobial housings resistant to UV discoloration, IEC 60601-1 medical-grade power supplies, making them ideal for hospital, laboratory, and pharmacy environments.

XD3-40d-H, 4-inch (118 mm) Direct Thermal Desktop Label Printer



Ideal for on-demand prescription, laboratory labelling

- Print speeds of up to 5 ips at 203 dpi
- USB, Serial, Ethernet connectivity
- Simple to set up through a single LED

XD5-40lld-H, 4-inch (118 mm) Direct Thermal Desktop Label Printer



Producing clear, short-term labels in pharmacy and hospital logistics

Print speeds of up to 8 ips at 203 dpi

- Optional 300 dpi resolution for fine print quality
- USB, USB Host, Serial, Ethernet, Bluetooth®, WLAN connectivity
- 2-inch Mono LCD display for easy setup

XD5-40llt-H, 4-inch (118 mm) Thermal Transfer Desktop Label Printer



Delivering reliable label printing for blood bags and asset tracking

- Print speeds of up to 8 ips at 203 dpi
- Optional 300 dpi resolution for fine print quality
- USB, USB Host, Serial, Ethernet, Bluetooth®, WLAN connectivity
- 2-inch Mono LCD display for easy setup

XD7-20d-H, 2-inch (60 mm) Direct Thermal Desktop Label Printer



Suitable for crisp, clear patient wristbands and small specimen labels

- Print speeds of up to 8 ips at 203 dpi
- Optional 300 dpi resolution for fine print quality
- USB, USB Host, Serial, Ethernet, WLAN, Bluetooth connectivity (Bluetooth®+WLAN option available)
- Optional 4.3-inch colour touch LCD display

Specifications

	XD3-40d-H	XD5-40IId-H, XD5-40IIt-H
Print Characteristics		
Print Method	Direct Thermal	XD5-40IId-H: Direct Thermal, XD5-40IIt-H: Thermal Transfer
Print Speed	Up to 5 ips (127 mm/sec)	Up to 8 ips (203 mm/sec), 6 ips (152 mm/sec)
Print Resolution	203 dpi	203 dpi, 300dpi
Print Width	Up to 104 mm	Up to 108 mm
Print Length	Up to 1,000 mm	Up to 1,000 mm
Sensor	Transmissive (Fixed), Reflective (Adjustable), Head Open	Transmissive (Fixed), Reflective (Adjustable), Head Open, Ribbon-End (XD5-40IIt-H only)
Media Characteristics		
Media Type	Gap, Black Mark, Notch, Continuous, Fan-Fold	Gap, Black Mark, Notch, Continuous, Fan-Fold
Media Width	15 to 118 mm	15 to 118 mm
Media Roll Diameter	Up to 127 mm	Up to 127 mm
Media Thickness	0.06 to 0.20 mm	0.06 to 0.20 mm
Supply Method	Easy Paper Loading	Easy Paper Loading
Inner Core	25.4 to 38.1 mm	25.4 to 38.1 mm
Physical Characteristics		
Ribbon Type	-	Wax, Wax/Resin, Resin, Outside (XD5-40IIt-H only)
Ribbon Width	-	33 to 110 mm (XD5-40IIt-H only)
Ribbon Length	-	Up to 300 m (XD5-40IIt-H only)
Core Inner Diameter	-	25.4 mm, 12.7 mm (XD5-40IIt-H only)
Dimensions (W x L x H)	181 x 222 x 168 mm (7.13 x 8.74 x 6.62 inch)	XD5-40IId-H: 194 x 248 x 169 mm (7.64 x 9.76 x 6.65 inch) XD5-40IIt-H: 210 x 284 x 188 mm (8.3 x 11.2 x 7.4 inch)
Weight	1.7 kg (3.75 lbs.)	XD5-40IId-H: 2.01 kg (4.43 lbs.) XD5-40IIt-H: 2.48 kg (5.46 lbs.)
Electrical	EnergyStar® Certified, External Power Adapter 100-240 VAC, 50/60 Hz (IEC 60601-1 Certified)	EnergyStar® Certified, External Power Adapter 100-240 VAC, 50/60 Hz (IEC 60601-1 Certified)
Display	-	FSTN LCD (200 x 100 pixels)
Performance Characteristics		
Memory	64 MB SDRAM, 128 MB Flash	512 MB SDRAM, 512 MB Flash
Interface	Standard: USB Optional: USB + Serial + Ethernet	Standard: USB + USB Host + Serial + Ethernet Optional: ① USB + USB Host + Serial + Ethernet + WLAN ② USB + USB Host + Serial + Ethernet + Bluetooth® --- WLAN: 2.4G/5GHz, 802.11a/b/g/n (Infrastructure, Ad-hoc, Wi-Fi Direct, SoftAP) - WEP40/104, WPA1/2 (PSK, EAP) Ethernet: 10/100Mbps
Real Time Clock	-	Supported (Optional)
Environment Characteristics		
Temperature	Operating: 0 to 41°C (32 to 105°F) Storage: -40 to 60°C (-40 to 140°F)	Operating: 0 to 41°C (32 to 105°F) Storage: -40 to 60°C (-40 to 140°F)
Humidity	Operating: 10 to 80 % RH Storage: 5 to 95% RH	Operating: 10 to 85% RH (Non-condensing) Storage: 5 to 95% RH
Software		
Emulation	SLCS™, BPL-Z™ (ZPL II®), BPL-E™ (EPL™), BPL-D™ (DPL, Optional)	SLCS™, BPL-Z™ (ZPL II®), BPL-E™ (EPL™), BPL-D™ (DPL), XML
Driver/Utility	Windows® Driver (Europlus/Seagull), Linux®/macOS® CUPS Driver, Virtual COM USB/Ethernet Driver, BIXOLON Utility, OPOS/JPOS Driver, Device Driver for SAP®, Network Auto Installer	Windows® Driver (Europlus/Seagull), Linux®/macOS® CUPS Driver, Virtual COM USB/Ethernet Driver, BIXOLON Utility, OPOS/JPOS Driver, Device Driver for SAP®, Network Auto Installer
Developer Tools	Windows SDK, Linux SDK, Xamarin® SDK, Web Print SDK (Android/iOS/Windows/macOS), Cordova™ Plugin, MAUI SDK, Flutter™ Plugin, React Native® SDK	Android™/iOS®/Windows SDK, Linux SDK, Xamarin® SDK, Web Print SDK (Android/iOS/Windows/macOS), XI (Optional), Cordova™ Plugin, MAUI SDK, Flutter™ Plugin, React Native® SDK
Design & Print	Label Artist-II™, Label Artist™ Web, Bartender® Ultralite for BIXOLON	Label Artist-II™, Label Artist™ Web, Label Artist™ Mobile (Android/iOS), mPrint App (Android/iOS), Bartender® Ultralite for BIXOLON
MDM (Optional)	-	BIXOLON Profile Manager - XPM™, XCM™ (Windows/Android)
Fonts/Graphics/Symbologies		
Fonts	Bitmap Fonts (10 SLCS, 16 BPL-Z, 5 BPL-E, 9 BPL-D), Scalable Fonts (1 SLCS, 1 BPL-Z, 1 BPL-D), 23 Code page, Unicode supported (UTF-8, UTF-16LE, UTF-16BE)	Bitmap Fonts (10 SLCS, 16 BPL-Z, 5 BPL-E, 9 BPL-D), Scalable Fonts (1 SLCS, 1 BPL-Z, 1 BPL-D), 23 Code page, Unicode supported (UTF-8, UTF-16LE, UTF-16BE)
Downloadable Objects	Supporting user-defined fonts (TTF, TTE, FNT), graphics, formats and logos	Supporting user-defined fonts (TTF, TTE, FNT), graphics, formats and logos
Barcode Symbologies	1D: Codabar, Code 11, Code 39, Code 93, Code 128, EAN-13, EAN-8, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Plessey, Postnet, GS1 DataBar (RSS-14), Standard 2-of-5, UPC/EAN extensions, UPC-A, UPC-E, IMB, ISBT-128 2D: Aztec, Codablock, Code 49, Data Matrix, MaxiCode, MicroPDF417, PDF417, QR code, TLC 39	1D: Codabar, Code 11, Code 39, Code 93, Code 128, EAN-13, EAN-8, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Plessey, Postnet, GS1 DataBar (RSS-14), Standard 2-of-5, UPC/EAN extensions, UPC-A, UPC-E, IMB, ISBT-128 2D: Aztec, Codablock, Code 49, Data Matrix, MaxiCode, MicroPDF417 PDF417, QR code, TLC 39
Accessories/Supplies		
Included in the Box	AC/DC Adapter, Power Cord, USB Cable	AC/DC Adapter, Power Cord, USB Cable XD5-40IIt-H: Holder Ribbon x 2, Core Paper (0.5-inch, 1-inch)
Options & Accessories	Peeler, External Paper Supply, Serial Cable	Peeler, Auto Cutter, External Paper Supply, Serial Cable
Compatible Supplies	-	B-ribbon™, B-band™ (XD5-40IIt-H only)

Specifications

	XD7-20d-H
Print Characteristics	
Print Method	Direct Thermal
Print Speed	Up to 8 ips (203 mm/sec)
Print Resolution	203 dpi
Print Width	Up to 54 mm
Print Length	Up to 2,000 mm
Sensor	Transmissive (Multi-position), Reflective (Adjustable), Head Open
Media Characteristics	
Media Type	Gap, Black Mark, Notch, Continuous, Fan-Fold
Media Width	15 to 60 mm
Media Roll Diameter	Up to 127 mm
Media Thickness	0.06 to 0.20 mm
Supply Method	Easy Paper Loading
Inner Core	12.5 to 38.1 mm
Physical Characteristics	
Dimensions (W x L x H)	111 x 219 x 160 mm (4.37 x 8.62 x 6.3 inch)
Weight	1.25 kg (2.76 lbs.)
Electrical	EnergyStar® Certified, External Power Adapter 100-240 VAC, 50/60 Hz IEC 60601-1 Certified Power Adapter
Display	4.3-inch Color Touch LCD
Performance Characteristics	
Memory	512 MB SDRAM, 512 MB Flash Flash memory expandable up to 1GB
Interface	Standard: USB + USB Host Optional: ① USB + USB Host + Serial ② USB + USB Host + Ethernet ③ USB + USB Host + WLAN[1] ④ USB + USB Host + Bluetooth® ⑤ USB + USB Host + WLAN[2] and Bluetooth® --- Ethernet: 10/100Mbps WLAN[1]: 2.4G/5GHz, 802.11a/b/g/n (Infrastructure, Ad-hoc, Wi-Fi Direct, SoftAP) - WEP40/104, WPA1/2 (PSK, EAP) WLAN[2]: 2.4G/5GHz, 802.11a/b/g/n/ac/ax (Infrastructure, Wi-Fi Direct, SoftAP)
Real Time Clock	Supported
Environment Characteristics	
Temperature	Operating: 0 to 41°C (32 to 105°F) Storage: -40 to 60°C (-40 to 140°F)
Humidity	Operating: 10 to 80 % RH Storage: 5 to 95% RH
Software	
Emulation	SLCS™, BPL-Z™ (ZPL II®), BPL-E™ (EPL™), BPL-D™ (DPL), XML
Driver/Utility	Windows® Driver (Europlus/Seagull), Linux®/macOS® CUPS Driver, Virtual COM USB/Ethernet Driver, BIXOLON Utility, OPOS/JPOS Driver, Device Driver for SAP®, Network Auto Installer
Developer Tools	Android™/iOS®/Windows SDK, Linux SDK, Xamarin® SDK, Web Print SDK (Android/iOS/Windows/macOS), XI(Optional), Cordova™ Plugin, MAUI SDK, Flutter™ Plugin, React Native® SDK
Design & Print	Label Artist-II™, Label Artist™ Web, Label Artist™ Mobile (Android/iOS), mPrint App (Android/iOS), Bartender® Ultralite for BIXOLON
MDM (Optional)	BIXOLON Profile Manager - XPM™, XCM™ (Windows/Android), SOTI® Connect supported
Fonts/Graphics/Symbologies	
Fonts	Bitmap Fonts (10 SLCS, 16 BPL-Z, 5 BPL-E, 9 BPL-D), Scalable Fonts (1 SLCS, 1 BPL-Z, 1 BPL-D), 23 Code page, Unicode supported (UTF-8, UTF-16LE, UTF-16BE)
Downloadable Objects	Supporting user-defined fonts (TTF, TTE, FNT), graphics, formats and logos
Barcode Symbologies	1D: Codabar, Code 11, Code 39, Code 93, Code 128, EAN-13, EAN-8, Industrial 2-of-5, Interleaved 2-of-5, Logmars, MSI, Plessey, Postnet, GS1 DataBar (RSS-14), Standard 2-of-5, UPC/EAN extensions, UPC-A, UPC-E, IMB, ISBT-128 2D: Aztec, Codablock, Code 49, Data Matrix, MaxiCode, MicroPDF417, PDF417, QR code, TLC 39
Accessories/Supplies	
Included in the Box	AC/DC Adapter, Power Cord, USB Cable
Options & Accessories	Peeler, Auto Cutter, Serial Cable
Compatible Supplies	-

Product and Services Portfolio

Applications	XD3-40d-H	XD5-40lld-H	XD5-40llt-H	XD7-20d-H
Patient Care & Safety				
Patient Identification				●
Clinical & Laboratory Diagnostics				
Specimen Labelling	●	●	●	●
Lab Storage Labelling		●	●	
Medication Management				
Medication & Pharmacy Labelling		●	●	
Blood Bank & Transfusion Labelling			●	
Equipment Management				
Sterile Instrument Tracking			●	
Asset & Equipment Tracking / Inventory Labelling			●	
Hospital Logistics & Supply Chain				
Hospital Logistics Labelling	●	●		

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