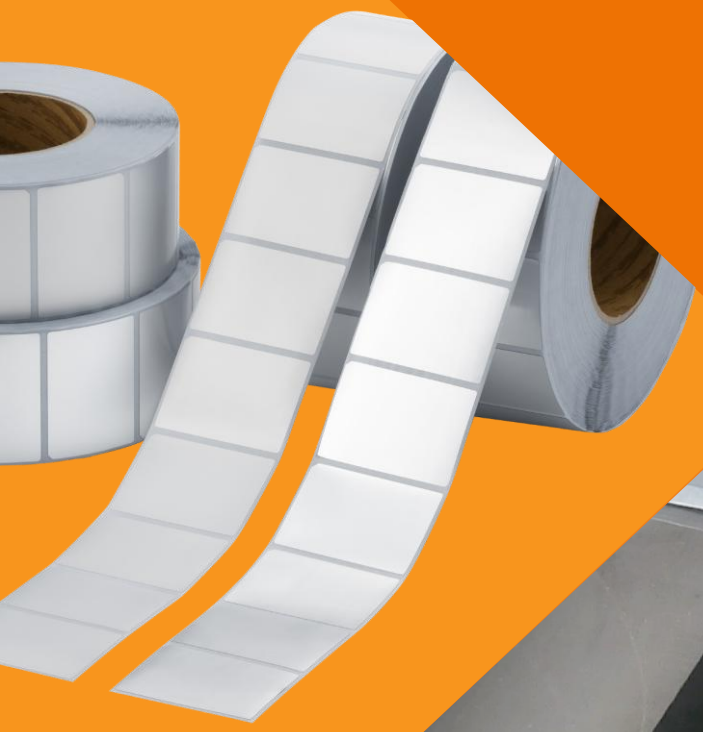
BROCHURE

GAME CHANGER
BIXOLON

# Laser Printing Solution

## 4-inch Laser Label Printer and Media





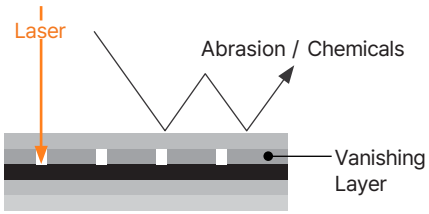
# Permanent Labels. Zero Consumables.

### When labels must last, choose laser.

BIXOLON's XLR-40 4-inch laser label printer uses advanced laser technology to create unerasable, scratch-resistant labels without ink, toner, or ribbon. Built for environments where labels require longevity, the XLR-40 provides the perfect solution for asset identification, compliance labelling, and long-term traceability.

## Why XLR-40?

The laser prints on the mid-layer of B-laser Label™ Media. The outer surface acts as a protective barrier, making the output resistant to abrasion, chemicals, and extreme temperatures. The XLR-40 ensures product traceability and authenticity for long-term maintenance and after-sales service.




### Permanent & Unerasable

Laser-marked content is sealed beneath a protective layer-resistant to wear, UV exposure, moisture and extreme temperatures.

### Lower TCO

No ribbons or printheads is required to replace. Less maintenance means minimal downtime. Reduces overall costs by up to 20% compared to thermal transfer printers.

### Eco-Friendly & Safe

Prints without fume emissions, keeping the workspace clean and safe.

Waste-free with no consumables, long-life labelling support ESG compliance (RoHS, REACH).

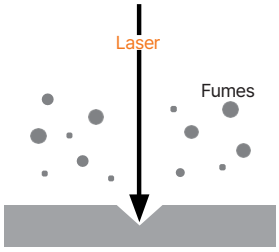
## What's the Difference between Laser Printers and Laser Markers?

Laser label printers and laser markers both produce permanent, unerasable outputs, however, laser printers do not generate fumes while printing.




XLR-40

VS




General Laser Marker






# Key Features

## Permanent, Unrivaled Durability

- **Ultra-High Print Quality**
  Resolutions of up to 2,000 dpi
- **Unmatched Longevity**
  Stable laser printing performance over time
  (100,000 hours of laser lifetime)
- **Customisable Laser Labels**
  Slitting and Die-cut options available in all types of media
- **Label Design Software**
  Fully compatible with Bartender®
- **No over-lamination required**
  Skip protective films and extra steps enhancing work efficiency

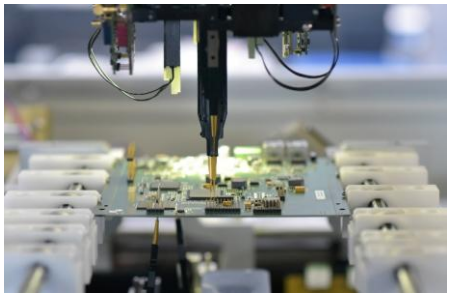
# Applications

## Built for Demanding Environments

- Outdoor Equipment: Solar photovoltaics, pole transformers, and equipment exposed to UV rays, high temperature and humidity
- Consumer Electronics: Smudging-proof labels for long-term warranty and traceability
- Healthcare: UDI and serial numbers that withstand sterilization and harsh chemicals








# XLR-40

## 4-inch Laser Label Printer



## Specifications

### Print Characteristics
**Print Method**
Laser
**Print Speed**
** Up to 3,000 mm/sec
**Print Resolution**
2,000 dpi
**Printing Area**
108 x 108 mm
**Sensor**
Transmissive (Adjustable)

### Media Characteristics
**Media Type**
Gap
**Media Width**
17 to 114 mm
**Media Roll Diameter**
Up to 180 mm
**Media Thickness**
0.08 to 0.5 mm
**Supply Method**
Easy Paper Loading
**Inner Core**
76 mm

### Laser Characteristics
**Laser Type**
Fiber
**Laser Power**
Up to 20 W
**Wavelength**
Up to 20 W
**Cooling Method**
Air-cooled
**Wavelength**
1064 nm
**Pulse Energy**
XLR-40J: 0.8 mJ
XLR-40M: 0.7 mJ
**Frequency Range**
XLR-40J: 1 to 600 kHz
XLR-40M: 30 to 60 kHz

### Physical Characteristics
**Dimensions (WxLxH)**
290 x 510 x 405 mm
(11.42 x 20.07 x 15.94 inch)
**Weight**
XLR-40J: 31 kg (68.3 lbs.)
XLR-40M: Appr. 31.2 kg (68.8 lbs.)
**Electrical**
Internal Power Adaptor 100-240 V, 50/60 Hz
**Display**
STN/Blue LCD (Black light LED)

### Performance Characteristics
**Interface**
USB

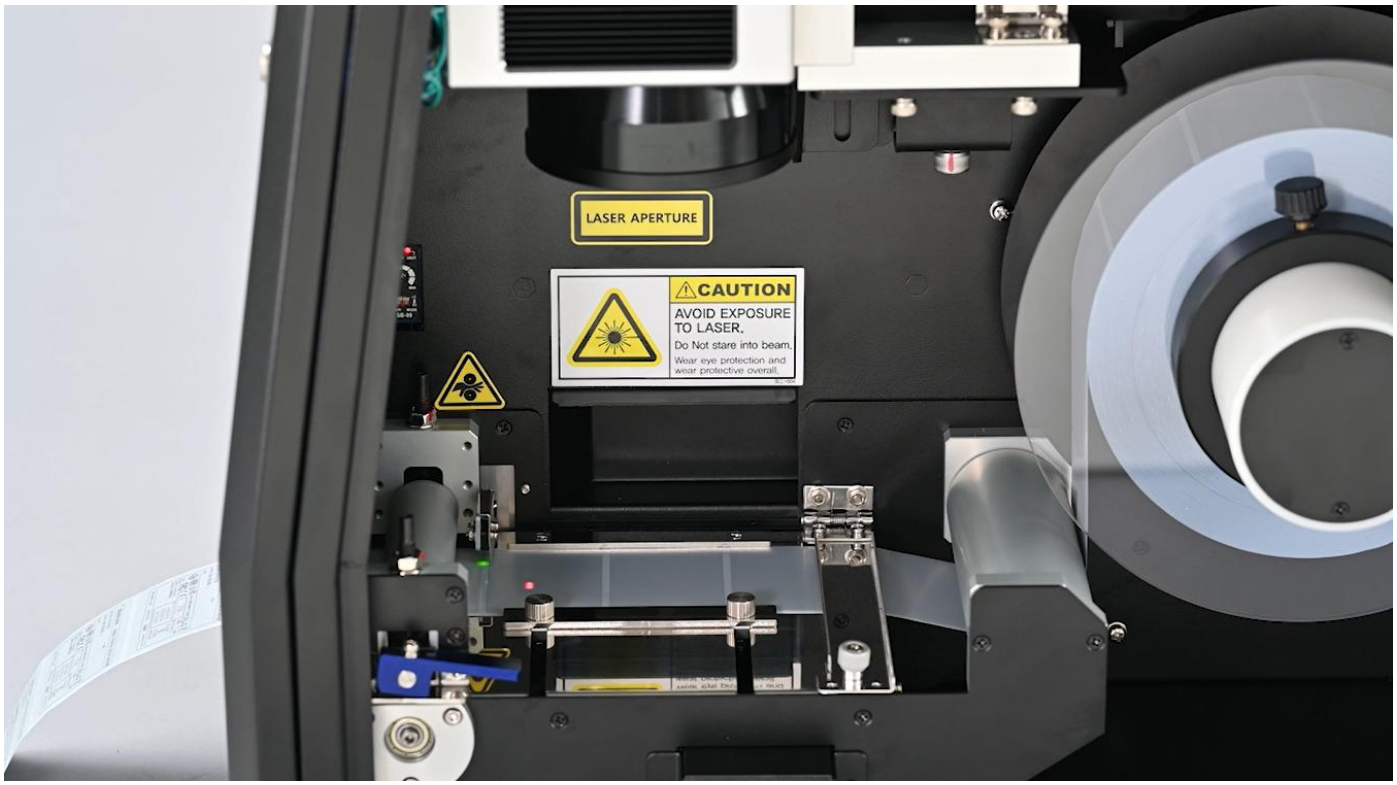
### Environment Characteristics
**Temperature**
Operating: 10 to 35°C (50 to 95°F)
Storage: -10 to 60°C (50 to 140°F)
(non-condensing condition)
**Humidity**
Operating: 10 to 80% RH
Storage: 5 to 90% RH
(non-condensing condition)

### Software
**Driver/Utility**
Windows® Driver

### Fonts/Graphics/Symbologies
**Fonts**
TTF Windows Font
**Graphics**
Bitmap, Jpg

### Accessories
**Standard**
Power Cord, USB Cable

** Printing speed is based on scanner performance (up to 3,000 mm/sec) and includes both printing (laser ON) and non-printing (laser OFF) movements. Actual printing time may vary depending on factors such as content, marked area, jump distance, resolution and acceleration/deceleration conditions.



# B-laser Label™

## Laser Label Media



With excellent resistance to wear, heat, humidity, oils, and other harsh conditions, BIXOLON's PET-based B-laser Label™ is offered in four types. Designed for optimal compatibility with the XLR-40 laser label printer, it also comes with reliable manufacturer support. The media can be purchased as jumbo roll, while custom slitting and die-cutting services are also available.

# Key Feature

### Features

Matte silver PET based laser label

### Surface Printing

- XLR-40 (Laser Label Printer)
- Label printing machine (Rotary, Thermal Transfer)

### Data Printing

Laser Print (Laser Type: Fibre)

# Product Data

| | MP | MR | GP | GR |
|---|---|---|---|---|
| Colour | Matt Silver | | Glossy Matt Silver | |
| Material | Polyester (PET) | | | |
| Thickness | 50μm (+Adhesive20 → Total → 70 μm±5 μm) | 85μm (+Adhesive20 → Total → 105 μm±5 μm) | 50 μm | 85 μm |
| Adhesive Strength | 1000 gf/25mm | | | |
| Liner | Glassine (Thickness 53 μm, Weight 65 g) | | | |






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