CATALYST
LASER MARKING SYSTEM

Produce the Most Durable Tags and Labels at Fast Speeds

PRIMERA
TECHNOLOGY, INC.

Next Generation Performance From Primera®

Several years ago, Primera was the first company in the world to produce a low-cost, desktop roll laser label marking system. Today, we are proud to introduce a significant new development in laser label marking systems: The Catalyst-series by Primera.

Comprised of three models, all produce identical output but at different throughput speeds. By far, they are the most affordable and efficient printers of their kind.

Catalyst-Series Model Comparison

	CATALYST V2 LASER MARKING SYSTEM	CATALYST V4 LASER MARKING SYSTEM	CATALYST V8 LASER MARKING SYSTEM
Number of Laser Diodes	2	4	8
Time to Print a 4"W x 1"H Label	48 seconds	24 seconds	12 seconds

Dual, Built-In Cutters

Other laser label imaging systems use the high-powered laser to cut out special sizes and shapes, creating even more smoke, dust, and fumes. Catalyst is different, utilizing the same proven Digital Die-Cutting technology that is used in other Primera printers. Another built-in horizontal cutter separates the web after X number of labels or after every family sheet is printed and die-cut.

Transparent Overlamination Layer

Laser-Active Layer

Color-Reference Layer

Adhesive Layer
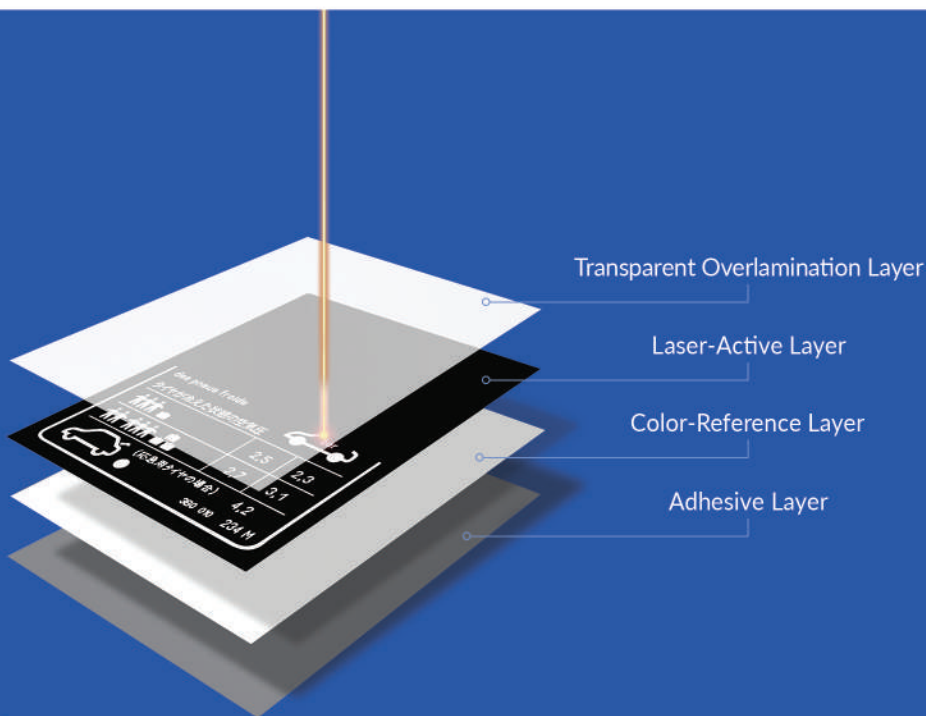
Unique Materials and Imaging Technology

Catalyst uses a patent-pending, bundled package of fiber-coupled laser diodes for imaging onto Schreiner® Color Laser Film (CLF). This unique material is pre-laminated, resulting in the most durable laser-imaged labels. Lamination helps prevent the labels' degradation from environmental damage such as blowing sand and other abrasion and chemical influences.

The lasers in Catalyst create images by a process called phase-change. This technology is very different from the ablation process used in other laser label systems. During the imaging process, there is zero smoke or fumes. This characteristic is significant as it eliminates the need for expensive and noisy smoke extraction systems along with the maintenance those systems require. Instead, Catalyst is suited perfectly for indoor use on a desktop. There are no issues with smoke or fumes. Plus, the labels come out pre-laminated, which is unique to CLF materials.

User-Friendly Design, Operation, and Maintenance

Catalyst-series printers are simple to deploy, operate, and maintain. With the self-installing printer driver and PrintHub™ for Windows, it's fast and easy to get up and running quickly. BarTender® UltraLite software is included. Many upgraded versions of BarTender are available for obtaining additional features and connectivity, including integrations with SAP®, Oracle®, and other ERP software. Data interfaces include USB 2.0 and wired Ethernet.

Maintenance is minimal, limited mostly to keeping the machine's interior clear of dust generated during the digital die-cutting process. Laser diodes and fiber-optic couplers have a long life and are replaceable if ever needed.

A More Sustainable Solution Than Thermal Transfer

The other way to produce on-demand, durable labels is laminated resin thermal transfer on a polyester label. However, this method is more complicated, labor-intensive and not environmentally preferable.

First, ribbons must be purchased and kept in inventory. Then, an operator loads the ribbons into a printer and prints labels. Laminate must be hand-applied with accuracy. While printing, the printer winds up the waste ribbon and the ribbon must be disposed of properly. But that's a problem. Thermal transfer ribbons are not recyclable. Instead, they end up in landfills. Catalyst's no-ribbon technology is, therefore, a far more sustainable solution for the planet.

A Global Leader in Specialty Printing Technology

Catalyst was designed and is manufactured in the USA by Primera Technology, a global leader in specialized digital printing technology for more than 45 years. Our support teams are second to none, offering phone and chat assistance for extended hours and even on Saturdays, with chat sessions in virtually any language. You can rest assured that you will be well cared for by our sales and support people throughout your ownership of a Primera product. Technical support is free for the life of the product.

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Catalyst is ideal for producing labels for these and other high-durability applications.

- Asset Management Labels
- UID/IUID MIL-STD 130N Labels & Tags
- UDI Labels & Tags for Healthcare & Medical Labels
- Outdoor-Durable Product Labels
- Automobile, Aircraft/Helicopter, Marine Parts Labels
- UL/ANSI-969 Rating Plate and Serial Tag Labels
- Medical Laboratory Labels for High/Low-Temp Applications
- Labels for ATV's, Snowmobiles, RV's, Golf Carts, Scooters & More
- High-Temperature Appliance Labels
- Solar Panel, Light Pole & Outdoor Utilities Labels

- Windshield Parking/Permit Labels
- Outdoor Power Equipment Serial Number Labels
- Labels for Pumps, Valves, Motors, Other Industrial Components
- Paint Mask Labels For Vehicles, Industrial Equipment
- High-Value Asset Tagging and Tracking
- Tamper-Evident Applications – Label Is Altered If Removal Is Attempted
- Almost all other harsh-environment applications where strong strong resistance to temperature, UV exposure, chemicals and abrasion is required

CATALYST LABEL MARKING SYSTEM SPECIFICATIONS

Print technology:	Fiber-optic coupled laser diodes
Print resolution:	300 x 300 dpi
Min. print/cut width:	0.5" (13mm)
Max. print/cut width:	4.1" (104mm)
Max. print/cut height:	12" (305mm)
Media width:	4.72" (120mm) – Die-Cut
Media type:	Schreiner Color Laser Film (CLF)
Supply roll:	6" (152mm) O.D. 3" (76.2mm) core
Media colors available:	Black with white print
Media sensing:	See-through and black mark sensors for pre-die cut labels, TOF sensing for digital die-cutting
Label design software:	BarTender UltraLite Software included; other versions available for more features and integrations
Operating system:	Windows 7/8/10+
Indicator lights:	Pause, Feed, Unload
Data interfaces:	USB 2.0, Ethernet 10/100
Electrical rating:	12VDC, 5.0 Amps
Power requirements:	100-240 VAC, 50/60 Hz
Agency approvals:	UL, UL-C, CE, FCC Class A
Laser safety certifications:	CDRH and IEC 60825-1
UL laser certification:	Class 1 Laser Product
Weight:	12.5 lbs. (5.7kg)
Dimensions:	13.6" W x 9.5" H x 17" D (345mm W x 242mm H x 432mm D)

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