

CATALYST V8e

LASER MARKING SYSTEM



Print Technology
8 laser diodes



Print Width
13 – 104 mm (0.5" – 4.1")



Cutting Technology
Digital contour cutter
& pizza-wheel cutter



Software
BarTender UltraLite
(Windows) included



Print Speed
Up to 25.4 mm (1") in 12 s

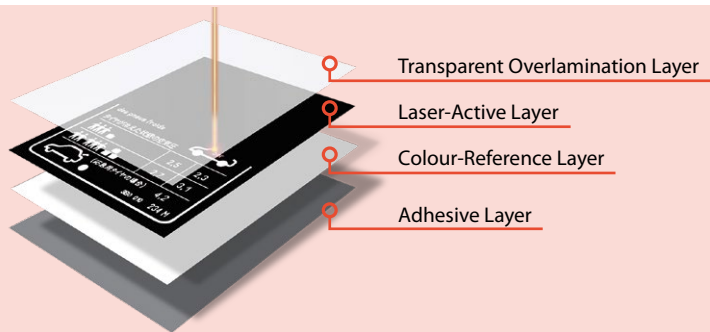


Compatible with
Windows



Facts about the Catalyst V8e

The Catalyst V8e combines marking onto highly durable, pre-laminated label substrates with a built-in digital die-cutting system to produce labels of any shape or size. Produce labels for harsh service applications such as UDI labels for medical devices, aerospace and solar panel labels, serial tags for outdoor power equipment, vehicle and marine spare parts, asset tags, barcode/QR code labels, warning labels, instruction panels, and other industrial labels that need to withstand harsh environmental conditions for many years.



Unique Materials and Imaging Technology

The Catalyst V8e uses innovative fibre-coupled laser diodes to image onto durable Schreiner® Color Laser Film (CLF), which is pre-laminated for maximum label resistance to environmental factors. The lamination helps to prevent the label degradation due to environmental damage and chemical exposure. Unlike traditional laser label systems, the Catalyst V8e features phase-change technology to eliminate smoke and fumes during imaging. This makes it ideal for indoor desktop use with-out the need for costly extraction systems and trained operators.

A more sustainable solution than thermal transfer

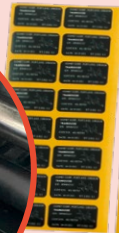
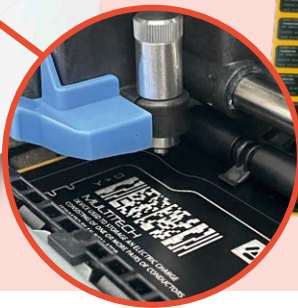
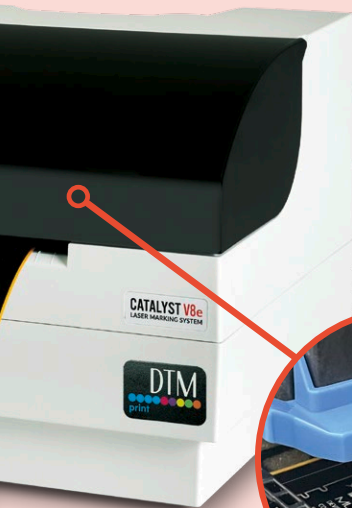
The other way to produce on-demand, less durable labels is the lamination of a resin thermal transfer print onto a polyester label. However, this method is more complicated, labour-intensive and less environmentally friendly. First, ribbons must be purchased and kept in inventory. Afterwards a laminate label must be accurately applied by hand, leaving liner waste. The print ribbon and liner must be disposed of properly. There may also be a security risk as the waste ribbon contains the negative image of the print. Thermal transfer ribbons are difficult to recycle and often end up in landfill. Therefore, Catalyst's ribbon-free technology is a far more sustainable solution for the planet.

When you buy a Catalyst V8e from DTM Print or an authorised partner, you're not just buying the product, you're buying first-class service. Our expert support is always on hand to ensure smooth and efficient performance. In addition, DTM Print offers free 3 year warranty after product registration, giving you added security and protection for your investment.



Dual, built-in contour cutter

The Catalyst V8e has an integrated contour cutter to produce labels in any size or shape. You only ever need one continuous roll and can produce any label in the shape you want, saving a lot of storage space and helping you to stay flexible. Conventional laser systems use a laser beam to cut the label, which produces extremely harmful toxic fumes and therefore requires a costly filtering system. Catalyst V8e uses a drag knife cutting plotter and can be used in any environment. By eliminating the need for a filter system, it is easy to transport and, with a 12-volt or mains power supply, is extremely easy to use in any working environment.



User friendly & low maintenance

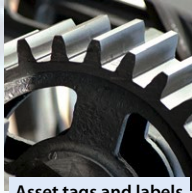
Catalyst V8e is easy to deploy, operate and maintain. Upgrade versions of BarTender UltraLite are available for obtaining additional features and connectivity, including database interfaces, SAP, Oracle, and other ERP integrations. Data interfaces include USB 2.0 and wired Ethernet.

Maintenance is minimal, mostly limited to keeping the inside of the machine free of dust generated during the digital die-cutting process. Laser diodes and fibre-optic couplers have a long life cycle and can be replaced if ever required.

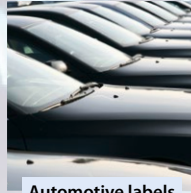
Customised Laser Marking ... right on your workbench



IUID labels



Asset tags and labels



Automotive labels



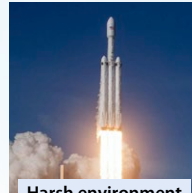
Medical
laboratory labels



Solar panel labels



Security labels



Harsh environment
labels

- **IUID labels**
For US Department of Defense's MIL-STD-130N labelling requirements
- **UDI ("Unique Device Identification") labels**
For asset tracking for medical devices according to FDA specifications
- **Asset tags and labels**
To protect and identify valuable equipment and devices
- **Automotive labels**
For VIN and rating plates and under-hood use
- **Medical laboratory labels**
With both low and high temperature and chemical resistance, labels can be used virtually anywhere from freezers to autoclaves
- **Solar panel labels**
Able to withstand outdoor exposure to wind, rain and UV light
- **Security labels**
Prevents the label from being removed and provides evidence of tampering if attempted
- **Harsh environment labels**
Any other labels such as safety warning labels that are used in harsh outdoor weather conditions

Labels produced with the Catalyst V8e Laser Marking System can withstand harsh outdoor weather conditions for many years: extreme sunlight/UV exposure, extreme temperatures from cryogenic cold to glowing heat, high abrasion including blowing sand and dirt, tampering due to available tamper-evident features and chemicals (such as grease, oils, gasoline and many other chemicals).



Extreme temperatures
from cryogenic cold
to glowing heat

Extreme sunlight/
UV exposure

Harsh outdoor weather
conditions

Despite its many advantages, laser marking of durable label film has always been a complicated and expensive process. It required highly-trained operators, a large capital investment, a lot of maintenance and a secur work area for safe operation. The Catalyst V8e Laser Marking System changes all that. It is designed to be used right on your desktop or workbench, making the laser marking process simple and convenient. It works just like any other Windows-based printer.

The Catalyst V8e contains a high-powered, solid-state laser. It offers all the benefits of highly durable laser label marking, but at a much lower cost and with far greater simplicity than ever before. Labels produced on the Catalyst V8e are designed to replace etched metal plates and thermal transfer laminated polyester barcode labels.

Color Laser Film (CLF) from **schreiner** ProTech

Schreiner Color Laser Film (CLF) label stock is the perfect solution for demanding industrial applications. This premium polyester composite is designed for the high level of parts marking and identification, ensuring excellent adhesion and performance even in the harshest conditions.



How does it work?

The Catalyst V8e penetrates the transparent laminate layer of each CLF label without damaging or contacting it. The reference layer (white) appears. This conversion does not release any particles or gases, reducing the need for cleaning and maintenance of the laser equipment, resulting in smokeless and emission-free marking.

Available sizes

For maximum flexibility, DTM Print offers continuous material for contour cutting as well as pre die-cut film labels in various sizes to meet your requirements. Pre die-cut labels from DTM Print are completely emission-free and perfect for clean room and controlled zone applications. Contour cutting of continuous material produces very low emissions. Another advantage is that storage costs are reduced as you don't need to stock label rolls in different sizes.

Paint Mask Label

For precise painting processes, DTM Print offers the Schreiner CLF with paint mask. The labels are intended for use with the Catalyst V8e to ensure that information is readable both before and after the painting or coating process. The paint mask label has multiple layers, which enable clean and precise paint edges and prevent overspray or paint bleed. This solution increases the quality of the finished product and improves the efficiency of complex production processes by reducing the need for manual rework.



The Catalyst V8e automatically recognises the CLF label material roll for a simple workflow. This is because each roll comes with a memory chip that ensures real-time monitoring of the remaining material. In addition, DTM Print performs a thorough quality check on each label roll.



Would you like to get more samples?
Send us an e-mail to sales@dtm-print.eu

Technical Specifications



Print Method	Fibre-optic coupled laser diodes
Print Resolution	300 x 300 dpi / 600 dpi interpolated
Print Speeds	Approx. 12 sec/label (25.4 x 101.6 mm (1" x 4"))
Laser Specifications	Wave length: 980 nm; Beam Divergence: 11.3°; Pulse Duration: 20 uSec typical; Maximum Power: 10 Optical Watts/laser; Class 1 Laser
Print Width	Pre die-cut: 13 mm - 127 mm (0.5" - 5") Digital die-cut: 13 mm - 104 mm (0.5" - 4.1")
Media Width	Pre die-cut: 54 mm - 130 mm (2.125" - 5.125") Digital die-cut: 121 mm (4.75")
Print Length	13 mm - 305 mm (0.5" - 12")
Media Types	Schreiner Color Laser Film (CLF), black with white print, Schreiner CLF with extra paint protection layer
Media Sensing	Moveable see-through sensor for die-cut labels; reflective sensor for labels and tags with black mark (bottom); can use continuous material for contour cutting
Media Feed	External
Supply Roll	152 mm (6") maximum diameter on 76 mm (3") core
Cutter	Built-in die-cutting knife blade; built-in "pizza-wheel" style label cutter
Indicator Lights	Power, Media
Controls	Pause, Feed, Unload
Operating Systems	Windows 7 and later
Data Interface/Connections	USB 2.0, Ethernet 10/100/1000
Label Design Software	BarTender UltraLite (Windows); other versions available for more features and integrations
Power Requirements	100-240 V AC, 50/60 Hz; 12 V DC, 5.0 A
Certifications	Agency approvals: UL, UL-C, CE, FCC Class A; laser safety: CDRH and IEC 60825-1 UL: Class 1 Laser Product; UKCA
Weight	5.7 kg
Dimensions (WxHxD)	345 mm x 242 mm x 432 mm
Operating Temperature	10 °C to 35 °C
Operating Humidity	10 % to 60 % RH (non-condensing)
What's in the Box	Catalyst V8e Laser Marking System, BarTender UltraLite, USB 2.0 cable, EU power cord and instructions BarTender UltraLite and printer driver can be downloaded from the DTM Print website
Recommended Accessories	DTM Print Label Re-/Unwinders
Warranty	36 months (after product registration, for devices purchased in EU/EFTA countries and UK)
Manufacturer	Primera Technology, Inc.



Scan the QR code to see all technical specifications.

Visit **dtm-print.eu** for detailed information.



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COMPREHENSIVE ADVICE?

✉ sales@dtm-print.eu

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