Image processing with
VisionLine for marking

Keeping an eye on everything

01
High process reliability

02
Modular setup

03
Easy operation

TRUMPF

01

High process reliability
Save time and money and still get maximum marking quality

VisionLine automatically detects the component position and forwards this information to the control. It is ensured that the marking process is always performed at the right position. The system also informs the user if the component is missing or if it has already been marked. The number of reject parts is minimized. A check of the marked code can be done very easily. What's more, the camera focus can be adjusted independent of the laser focus using the automatic focus setting unit.

02

Modular setup
Optimal adjustment for every application situation

The new image processing offers an impressive variety of possibilities. Regardless of whether the camera is looking through the scanner lens or is laterally installed, whether one or two cameras are being used, everything is possible. You can find the correct marking position on the new component with camera 1 and read out the marking on the previous component with camera 2. Lighting conditions are optimally considered by VisionLine and with the stitching function, that is, the concatenation of images, you have even the largest component perfectly in view.

03

Easy operation
Systematic user guidance through individual work steps

Using the intuitive user interface and predefined pattern library, it is easy to integrate VisionLine in the production process. After selecting the feature to be detected, choosing the code to be read and setting a few parameters, the operator can immediately start working with the program.

> ### Everything in view with the TRUMPF image processing solution VisionLine

In its third generation, the new VisionLine image processing now also offers the recognition of a comprehensive group of patterns. With the **Adjust, Detect, Trace** and **Trace Pro** modules, you can select automatic focus search, pattern recognition, the reading of codes as well as grading.

VisionLine, the TRUMPF image processing solution

Available marking lasers	TruMark series 3000/5000
Available focal lengths	f = 160 mm, f = 163 mm, f = 254 mm
Available marking work stations	TruMark Station 5000
Supported codes	4-state, BC412, Codabar, Code 30, Code 93, Code 128, EAN 8, EAN 13, EAN 4, GS1-128, GS1 Databar, Industrial 2/5, Interleaved 2/5, UPC-A, UPC-E, Data Matrix, QR, Aztec, PDF417, Maxicode
The smallest readable module size	30 µm*
Typical image processing time	200 ms*
Typical position recognition accuracy	20 µm in the image center*

*Depending on type of objective and lighting.
Subject to alteration. Only specifications in our offer and order confirmation are binding.