

Image processing with
VisionLine for marking

Keeping an eye
on everything



01

Brilliant appearance

02

Simple operation

03

High productivity

04

**Prepared for
every task**

01

Brilliant appearance

thanks to modern lighting functionality

Smart Capture can be used to create homogeneous lighting conditions on a wide range of materials. This creates the ideal conditions for marking highly reflective surfaces – with excellent contrast effects. An even greater reduction in reflections can be achieved with the VisionLine Light Diffuser.

02

Simple operation

thanks to intuitive user interface and feature library

Using the image processing software is now even easier: From setting up a new component to using predefined features and specifying parameters such as exposure times – you can quickly achieve the desired result.

03

High productivity

thanks to sensitive cameras with high resolution

With VisionLine, you have sensitive cameras with high resolution, which contribute to efficient production thanks to short exposure times and fast image capture. The ability to focus throughout the entire marking volume independently of the laser focus allows sharp image capture at all times for the best results.

04

Prepared for every task

thanks to modular design and individual functions

You are optimally prepared for finding and checking the marking position and the distance to the workpiece.

360° process control from import to quality check

The standard package already includes:

- Real-time view during manual component positioning
- Automatic distance measurement in the entire marking area

Add further functionalities as required:

VisionLine Detect: Feature detection (e.g. circles, lines, crosses)

VisionLine Model: Learning and retrieving simple and complex geometries. This ensures that the marking process is always carried out in the correct position.

VisionLine Code: Reads and grades barcodes and 2D codes

VisionLine OCR: Reads and grades text and numbers



Further information on image processing solutions: www.trumpf.com/s/image-processing-marking-applications



TRUMPF VisionLine image processing

Available marking lasers		TruMark Series 3000	TruMark Series 5000	TruMark 6030	TruMark 7050		TruMicro Mark Series 2000
Available focal lengths	mm	160 250 254	160 163 254	300 450	160	255	300 450
Available marking workstations		TruMark Station 5000, TruMark Station 7000 ^[3]					TruMark Station 7000
Supported codes		BC412, Codabar, Code 39, Code 93, Code 128, EAN 8, EAN 13, EAN 14, GS1-128, GS1 Databar, Industrial 2/5, Interleaved 2/5, UPC-A, UPC-E, Data Matrix, QR, Aztec, PDF417, Maxicode					
Supported fonts		System font (e.g. Arial, Calibri, Cambria, Courier, Times New Roman), Machine font (e.g. OCR-B)					
Smallest readable module size ^[2]	µm	30					
Typical image processing time ^[2]	ms	200					
Typical accuracy position detection ^{[1], [2]}	µm	30 60		50 150	40 60	50 80	50 150

^[1] In the image center, at the edge of the image. ^[2] Depending on the lens type and lighting. ^[3] Not available: TruMark 3230 in the TruMark Station 5000 and TruMark Station 7000, TruMark 5020 in the TruMark Station 7000, TruMark 7050 in the TruMark Station 5000. Subject to alteration. Only specifications in our offer and order confirmation are binding.

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