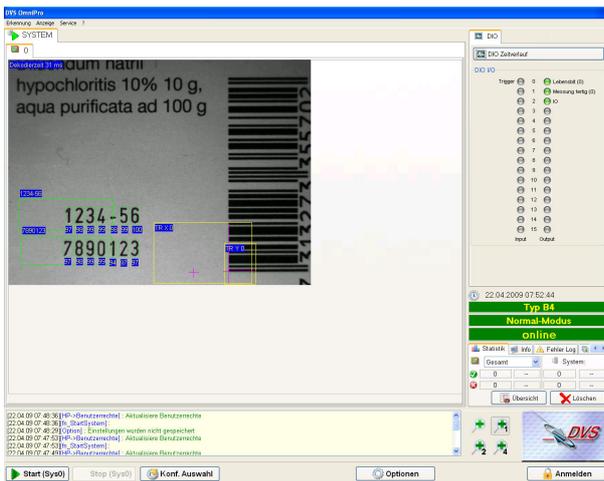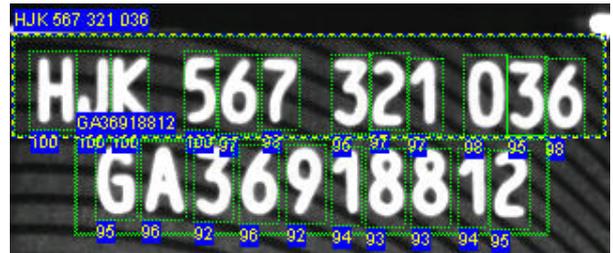## OCV Software module

The OCV (Optical Character Verification) Software Module is developed for high speed label controls. The software can, due to its sophisticated algorithms, be used for a variety of text and labels inspection tasks.

Character recognition is achieved by means of comparison of the actual characters (letters, numbers, etc.), against a comparison string. Comparison is based on pattern recognition. The comparison string can be parameterized in a fixed manner, or can be transmitted to the Vision System by means of TCP/IP.
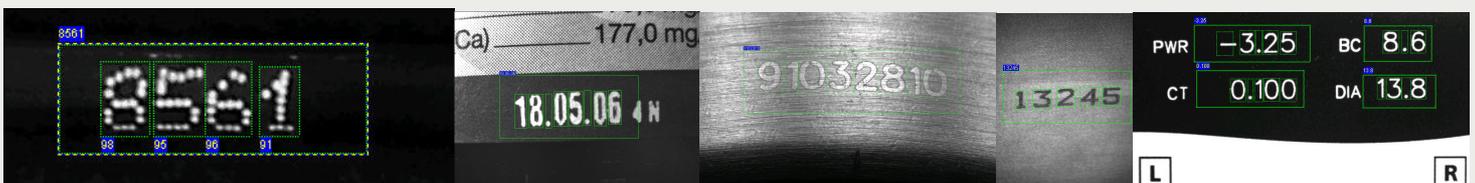

Recognition example

OCV recognition

- Multiple auxiliary functions enable quick and effective teaching, for example automatic character suggestion or image batch processing.

- Ambiguity test for permutable characters. The similarity test can be parameterized manually or automatically.

Features

- Adjustable search direction
- Quick search function
- Background can be hidden through a free parameterized mask
- Fonts can be allocated to different search areas
- Two fonts can be combined
- Import and export function for fonts
- Default values for the quality and contrast search parameters, changeable for every search pattern
- Uniqueness can be activated and set up (similarities are considered)
- Test function, amongst others for series of images, to test parameter values (feature for effective reteaching)
- Offline recognition, parameterized recognition tasks can be tested on stored images
- Histogram function of quality and contrast of the search result, per AOI
- Similarity chart, specifying all character samples with similar samples, the percental similarity level being adjustable

keeping an eye on quality