

"Faster than the eye" – No seam gets away from the profileobserver compact

With up to 10,000 images per second the profile**observer** compact detects, measures and documents geometries and surface defects automatically and directly during the production process. This „eagle eye“ has every weld or solder seam or even other geometric profiles in its sights. The possibilities of seam tracing as well as error detection with high depth of focus are unique.

...and this seam will hold

Many times faster than the human eye, this camera-based inspection procedure for automatic quality assurance is at the highest level. Surface defects, edge notches, cracks, splashes and more are detected fast and reliably. The profile**observer** compact is also perfectly suited for measuring joint gaps. The possibilities of seam tracing, ranging from the detection of increases in seam height to seam width to seam position, are unique. The surface geometry of a weld seam is displayed in real-time. All seam parameters determined, such as seam tilting or collapse, angle and position of the seam as well as surface pores are indicated by the profile**observer** compact as a graphic.

High depth of focus makes it flexible

The high depth of focus – resolution of 10µm in rough industrial environments – makes precise measuring results possible with a high level of dynamics and great distance to the object of measurement. The profile**observer** compact can therefore be used very flexibly and is e.g. also easily integrated into existing production chains.

„compact“

With dimensions of only 60 x 68 x 237mm the profile**observer** compact is really compact. The housing boasts a size 50 percent less than the profile**observer** for the steel industry (heavy industry). Due to the compactness the device is best suited for applications with robots and altogether a lot of weight could also be saved with the associated arm and flange. Due to the reduced construction design the profile**observer** compact is versatile and can be used flexibly.

Further development „inclusive“

Width, length, tilting or over-arching of the seam are just a few of the numerous parameters, that the profile**observer** compact can inspect. The software is also continuously further developed in collaboration with the customers. This way, for example, visualization concepts for rework stations, which in some cases are several hundred meters away, have also been developed. At the stations the position of the possible defect is indicated, in order to be able to repair or reject the component there quickly and without having to search. Here too, the evaluation of the seams can be sent for every component (that is provided with a serial number).

You can find detailed descriptions about the profile**observer** compact [here](#).