

The Merger3D Tool

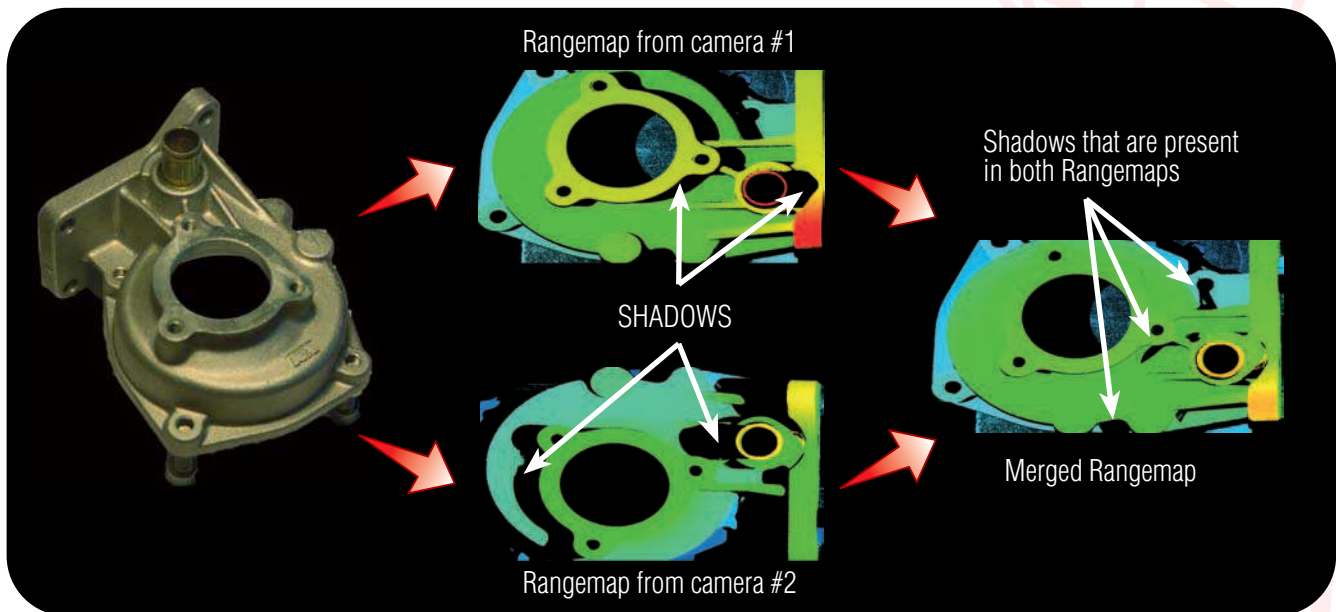
SAL3D Tools

The **AQSENSE SAL3D Merger3D Tool** allows the minimization of the occlusions or shadows that typically appear in laser triangulation applications. A second camera can see most of the hidden areas that the first camera can't see. The tool performs a quick and smooth merging of the two rangemaps coming from both cameras, with very little CPU effort, significantly increasing the laser triangulation acquisition quality.

Features:

- Occlusions minimization
- Very smooth rangemap merging*
- No extra CPU burden

* Cameras must be synchronized



Merger3D: Merging Sample Code

```
grabber_base.grab ();
grabber_aux.grab ();
while ( !endProcess () )
{
    grabber_base.wait ();
    sal3d:Frame frame_base (grabber_base.frame ());
    sal3d:Profile profile_base (finder_base (frame));

    grabber_aux.wait ();
    sal3d:Frame frame_aux (grabber_aux.frame ());
    sal3d:Profile profile_aux (finder_aux (frame));

    sal3d:Profile profile_merged = sal3d:Merger::average(
        profile_base, profile_aux, mconfig);

    // Process the new profile, maybe accumulating into a rangemap
}
grabber_base.freeze ();
grabber_aux.freeze ();
```

Please, refer to the SAL3D product sheet for O.S. and compiler compatibility