

## SVS2 in space!

*The SVS2 vision sensor has been chosen for quality control on connectors utilized in the aerospace industry.*



### Application

The application consists in carrying-out a quality control on connector pins for aerospace use. The very small objects (approximately 12mm), mounted on specific supports, undergo a burning process.

The control requires:

1. the check of the orientation of the pin on the support
2. the control that the pin has been correctly burned.

### Solution

Two control stations were necessary to solve the application. Each station has a SVS2 vision sensor with 12mm optics and a SIL SPOT illuminator with infrared LED (highlighting the presence of pin burning).

The first SVS2 verifies the presence and orientation of the pin on the support using position and contrast tools.

The pin, when orientated correctly, has light-coloured rings at the bottom. On the contrary the inspected area is completely dark.

The second SVS2, verifies the presence of the burn along the pin. Thanks to the infrared illuminator, the area that has undergone treatment is brighter than the unmachined pin. The non-conform area can be precisely determined using a brightness control.

Other two position and edge counting controls make a second check on the presence and orientation of the pin.