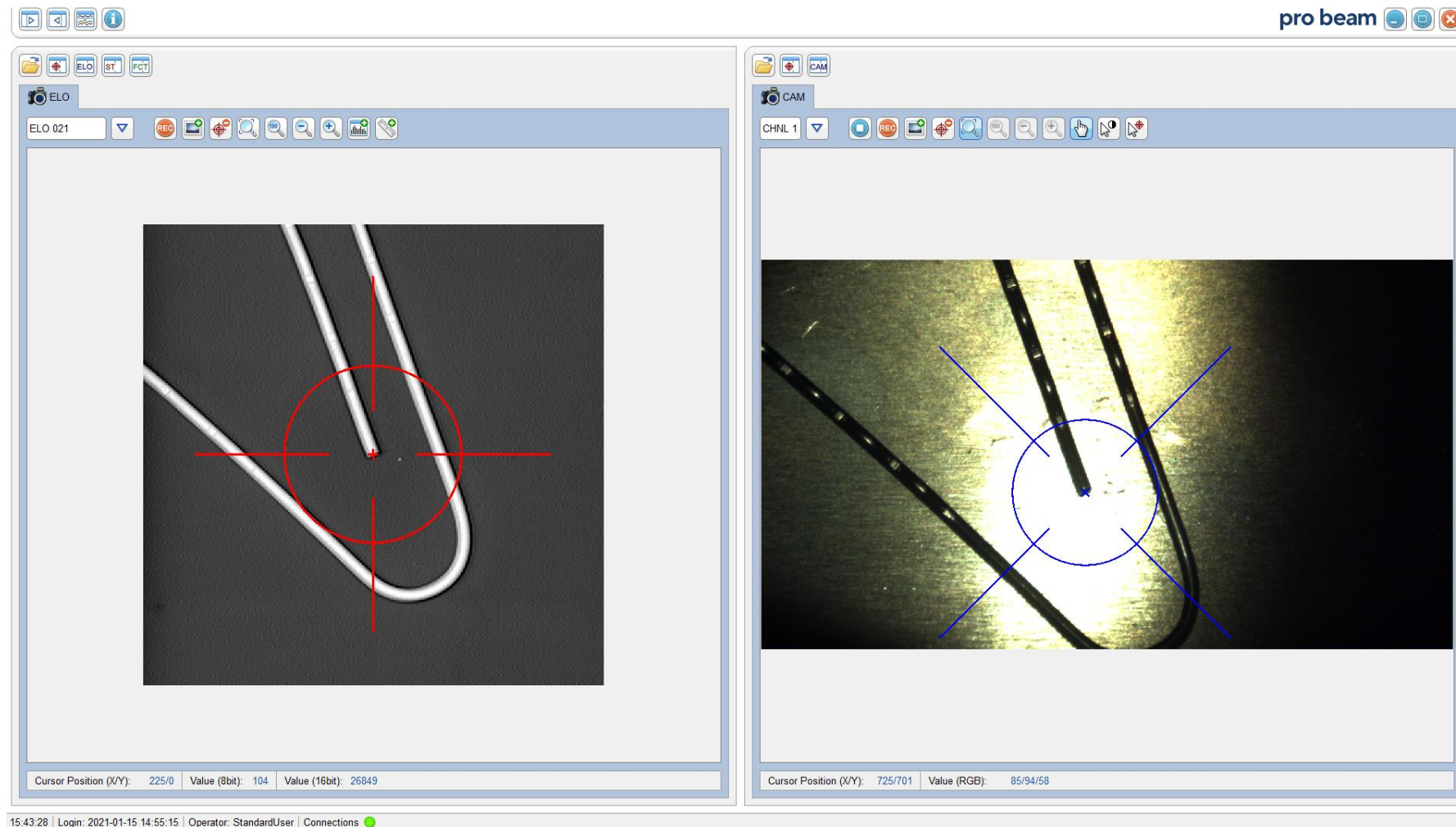


Introduction to teaching with EB-Vision

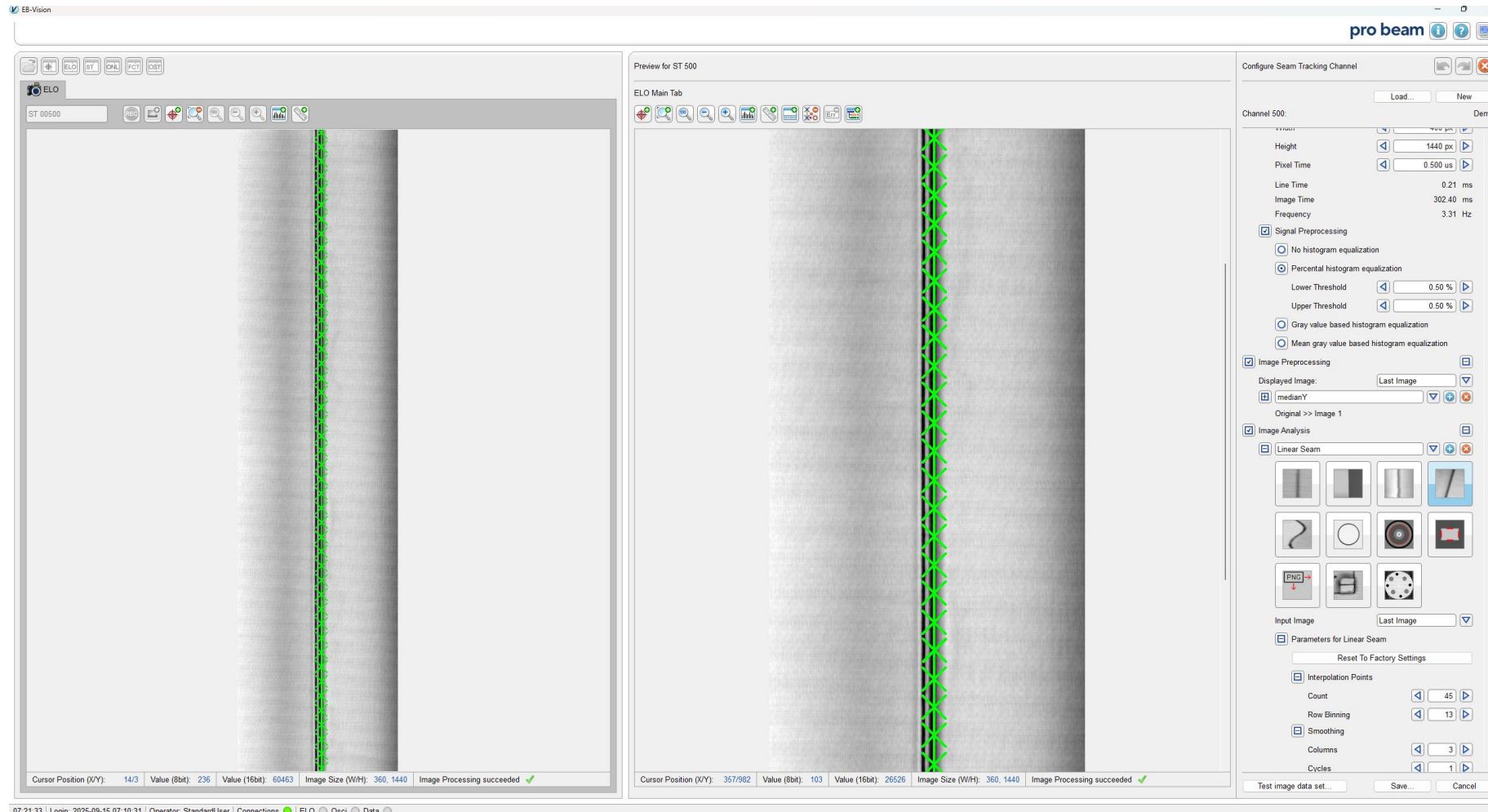
Ole Schmidt, R&D

pro-beam GmbH & Co. KGaA
Innovation Club Welding, September 2025

www.pro-beam.com

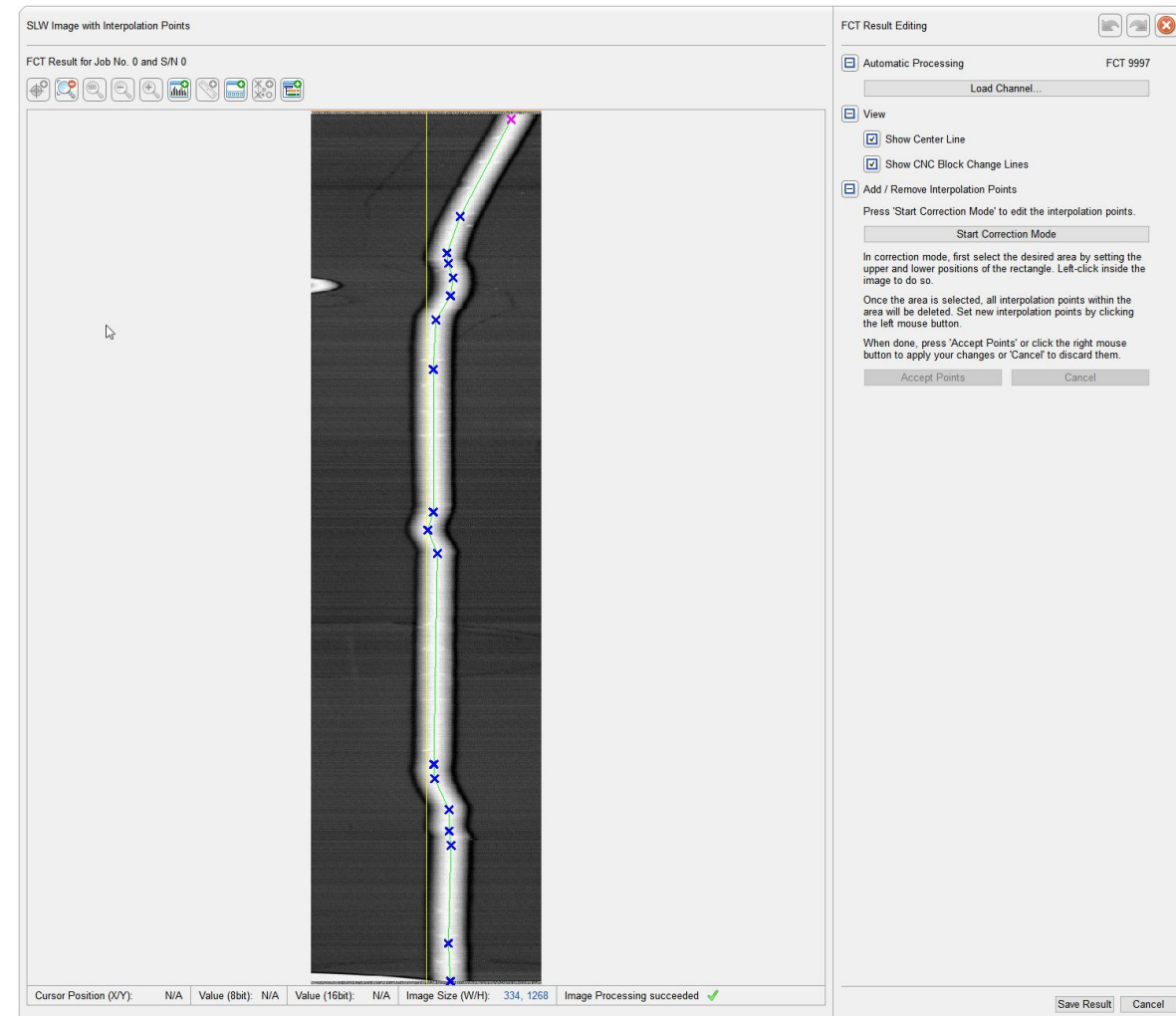


- Teaching done „offline“ (welding is done in a following step)

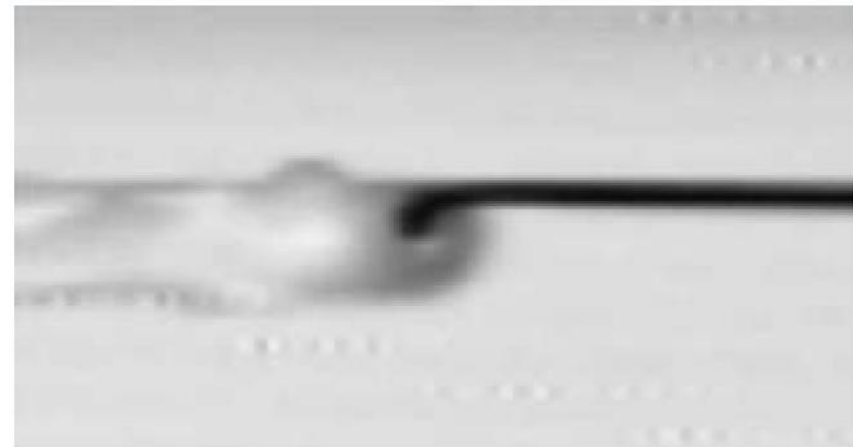
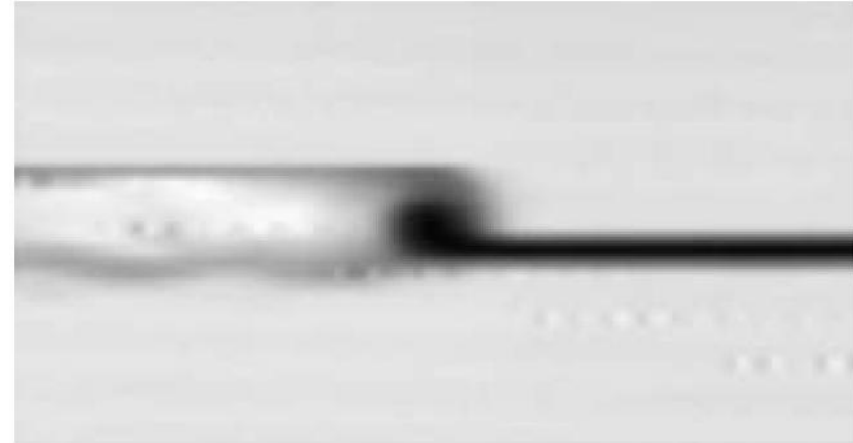


- Teaching still offline, but automatic positioning for well known shapes

- Teaching still offline
- Based on Scanning-Like-Welding image with vertical joint alignment



- Short interrupt of welding process to obtain ELO image
 - Typical settings:
 - Acquisition interval 10 Hz
 - Image capture time 1 ms
- Allows for manual correction during welding process
- To be used when optical camera is not useful anymore



- Given a start point on the seam and a starting direction we can automatically follow the seam independent of its shape

