

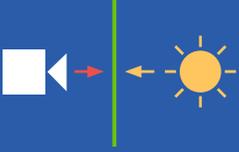
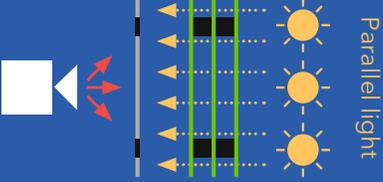
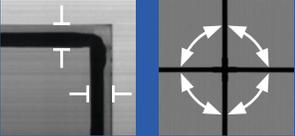


# Quality Checker IG

Defect detection and measurement  
in final control of insulated glasses

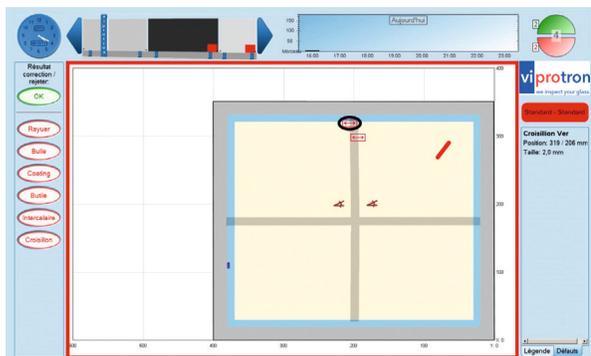


# Quality Checker IG

	WORKING PRINCIPLE	CONCEPT
<b>Illumination and detection channels</b>	Brightfield channel transmission  Simulation of a bright diffuse sky	Telecentric brightfield channel in transmission  Parallel light projection
<b>Detection with special focus on:</b>	 Defects with clear contour / contrast	 Spacer position and muntin bar alignment

## OBJECTIVES

- Final quality check of the complete IGU after assembly
- Ensure the agreed upon quality level is achieved
- Analyze defect causes within the process
- Use the complete documentation of all quality relevant control results for internal and external purposes



Operator view

## SYSTEM

- Installation between the press and the sealer in an IG line
- Reliable defect detection in telecentric brightfield for detection of standard glass defects like scratches, bubbles, inclusions, dirt, PIB residues in the visible area, etc.
- Telecentric detection confirms alignment of spacers and muntins as well as control of the mentioned optical defects
- Intuitive operator interface allows for clear visualization of the glass defects
- Meets the requirements under ASTM C1036, EN 1279 or JIS R3209 for the defect detection of architectural glass
- Quality recipes can be modified and developed to specific customer needs

### PATENT NUMBERS

US 9,766,188 B2  
 DE 102013105693.8  
 Int. PCT/EP2014/061456

**WE ARE SETTING THE STANDARDS**