



Fundamentals of Industrial Measurement Technology

Homogeneity Measurements



Blobs



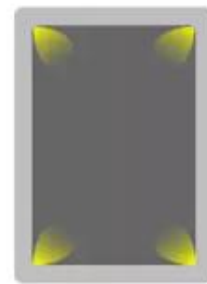
Small-scale blobs



Large-scale blobs



Edge mura



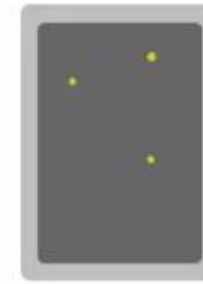
Corner mura



Line mura



LED mura



Spot mura

ProDSP Post Series Nr.17.



Homogeneity Testing = Measurement of Spectral Characteristics

When testing displays and LED panels, a fundamental task is checking the **quality** and **homogeneity** of the emitted image.





Performed tests

- **Pixel defect detection**
 - Identifying burned-in, stuck, or non-functioning pixels
- **Mura testing**
 - Mapping spots, discolorations, and luminance variations





Specialized measurement system is required

- **Pixel High-resolution camera**
 - Pixel defects can only be isolated this way
- **Dark environment**
 - All external light must be eliminated
- **Special image-processing software**
 - Often more expensive than the camera itself





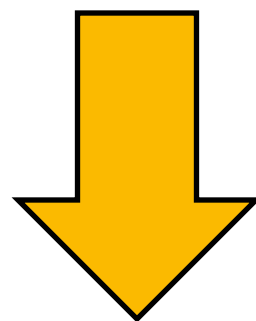
Typical equipment

- Pixel Technoteam LMK6-5 Color
- Keyence vision cameras





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systems?** 🔍



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