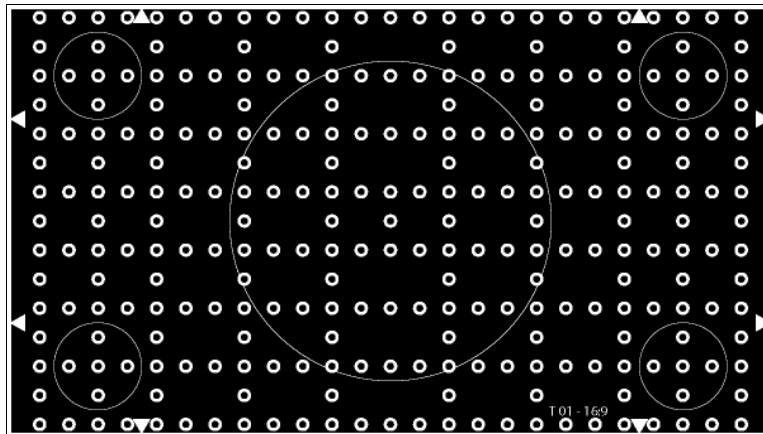# GEOMETRY (BALL) TEST CHART 16:9

TRANSPARENCY

The test chart is designed to measure geometry of cameras and monitors.

In a black surrounding area bright circular rings are arranged as a grid in such a way that at ideal geometry their center points are located in the intersection points of a 25/15 grid raster lines of electronic test generators. The division of the circular ring rasters is thus 40 lines per total image. The small circular rings have an outer diameter of 3% and inner diameter of 1.5 % of picture height. In addition there are a large white circular line (diameter 75% of picture height) in the center of the image and 4 white circular lines in the image corners.

Utilization

For checking the geometry of cameras the test chart as shot by the camera has to be superimposed on the monitor with an electronically generated grid of 15 horizontal and 25 vertical lines. The larger circular lines allow a rough visual appraisal of the geometry without using an electronically generated grid.

The test chart is also available in a positive version, black circular ring on a white background area.

Standards

- Pflichtenheft 8/1.1 der öffentlich-rechtlichen Rundfunkanstalten der Bundesrepublik Deutschland "Richtlinien für die Messung der Pflichtenheftsbedingungen an Videogeräten"
- IEC 611461-2 Video cameras (PAL/SECAM/NTSC) - Methods of Measurement - Part 2: Two- and three-sensor professional cameras, 1997
- EN 50132-2-1 CCTV surveillance systems for the use in security applications