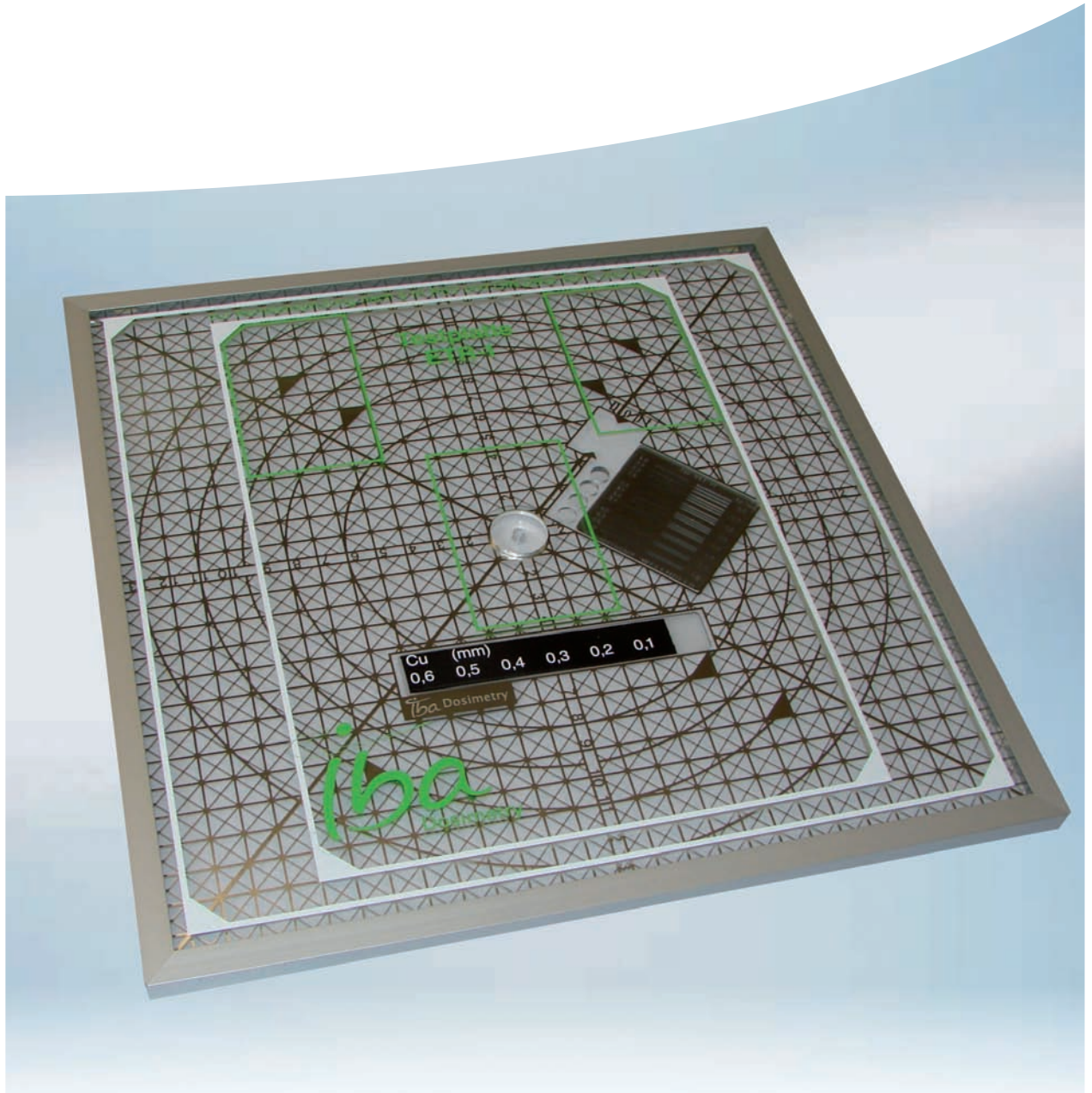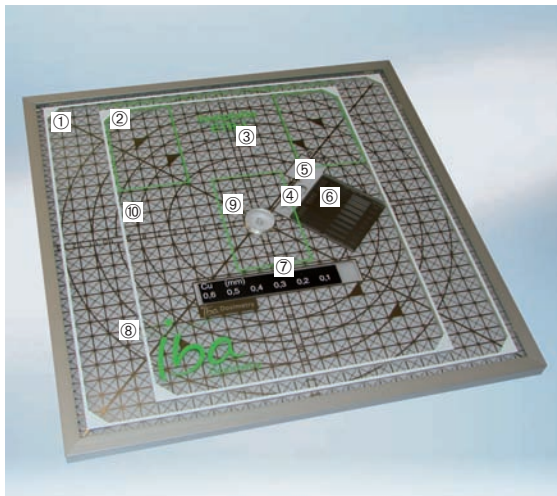![iba Dosimetry logo]

Test Tool ETR 1 |

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The **ETR 1** is a multi-purpose test tool. With a single exposure on X-ray film made by using this tool, you can check all of the following criteria reducing your time for QA:

Exposure Geometry

① ② ③ ⑨ ⑩ e. g. for checking

- Adjustment of image intensifier sizes
- Alignment of the light field edges to the x-ray field
- Alignment of the light field center with the center of the image
- Adjustment of exposures made with a spotfilm device
- Decentering of the beam path (difference: center of the image vs. the perpendicular ray)
- Alignment of the cassette with the center of the image (film)
- Magnification (scale length of the test pattern vs. the actual scale length)

Film-Screen Contact

(and integrity ⑧) to check the definition

Resolution

critical resolution of the image receiver unit ⑥

Contrast

recognition of low contrast ⑦ ④

Optical Density ⑤

- Alignment mark 35 x 35 cm cassette size ①
- Alignment mark 24 x 30 cm cassette size ②
- Centimeter scale ③
- Low contrast details ④
- Measuring area for optical density ⑤
- Resolution test 0.6-5.0 Lp/mm ⑥
- Copper step wedge ⑦ (height of one step = 0.1 mm Cu)
- Diagonal grid for checking the definition ⑧
- Center ring r=1 cm with a thread for the centering cone ⑨
- Center rings for image intensifier sizes (visible fields) ⑩