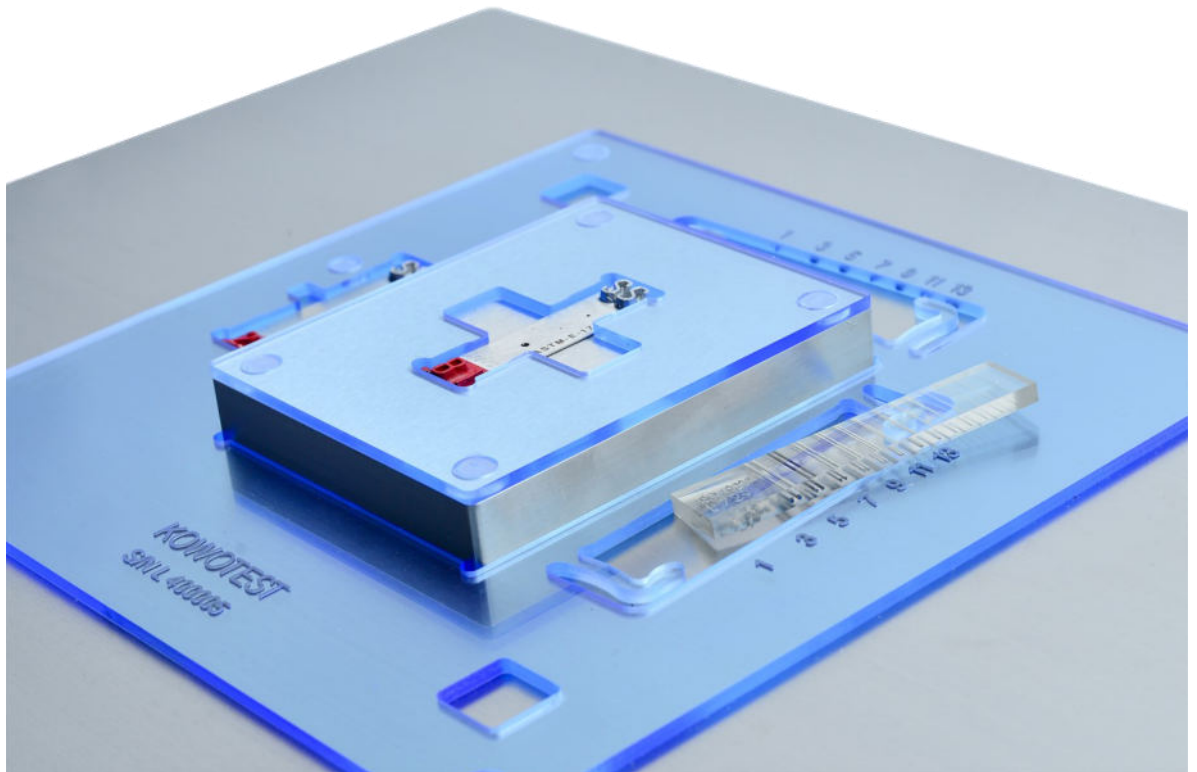


# Duplex Plate Phantom

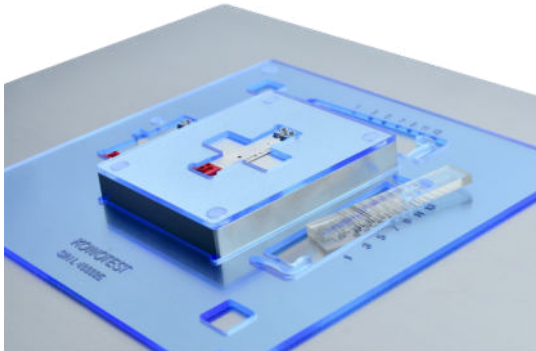
## Duplex Plate Phantom Heavy Metal - HM Light Metal - LM according to ASTM E2737



Duplex Plate Phantom Type 2  
for Performance Evaluation  
and Long-Term-Stability Tests of DDAs

# Test Phantom for Long-Term Stability Tests of DDA Systems (DR)

The Type 2 Duplex Plate Phantom enables to test relevant parameters of DDA systems like Basic Spatial Resolution, Contrast Sensitivity, SNR and Signal Level for initial performance evaluation and long-term stability. These test required and described in detail in ASTM E2737 have to be performed periodically for checking process control and lang-term stability.



## Specification:

### IQI, Gauge

- A Base Plate - thin
- B Top Plate - thick
- C Hole Type IQI - .SS 25 / AL .50
- D Hole Type IQI - SS .81 / AL 2.0
- E ROIs - Thin Plate
- F ROIs - Thick Plate
- G Duplex Wire Type IQI

### Test, Check

- HM 5 mm / LM 12 mm
- HM 15 mm / LM 38 mm
- Contrast Sensitivity (edge or hole)
- Contrast Sensitivity (edge or hole)
- Signal to Noise Ratio, Signal Level
- Signal to Noise Ratio, Signal Level
- Basic Spatial Resolution, Unsharpness

### Dimensions:

- 400 x 300 x 15 / 38 mm
- 15.75 x 11.81 x 0.59 / 1.50 inch

## Advantages of Type 2 compared to Type 1 Duplex Plate Phantom

### Hole Type IQI on top plate is located in the center of the plate:

Low scatter radiation and much lower gradient on the IQI for improved repeatability of contrast sensitivity tests

### Free areas beside long side of the Hole Type IQI:

Allowing contrast sensitivity evaluation also at the edge of the IQI improved repeatability compared to evaluation at the holes of IQI

### Region of Interest (ROI) on top plate close to Hole Type IQI:

Lowest gradient in ROI for improved repeatability on SNR and Signal Level tests

### Cut-outs in plastics for ROIs:

ROIs clearly visible on the X-ray image. Easier evaluation

### Two Duplex Wire Type IQIs can be inserted:

Portrait and landscape axis can be evaluated in one image

### Duplex Wire Type IQIs can be removed:

Use for other applications possible

## Scope of Supply:

### Duplex Plate Phantom Type 2 Heavy Metal (HM) in wooden case

Complete with Hole Type IQI ASTM E1742 - SS size .25 and .81  
Test Certificates, Declaration of Conformity

### Duplex Plate Phantom Type 2 Light Metal (LM) in wooden case

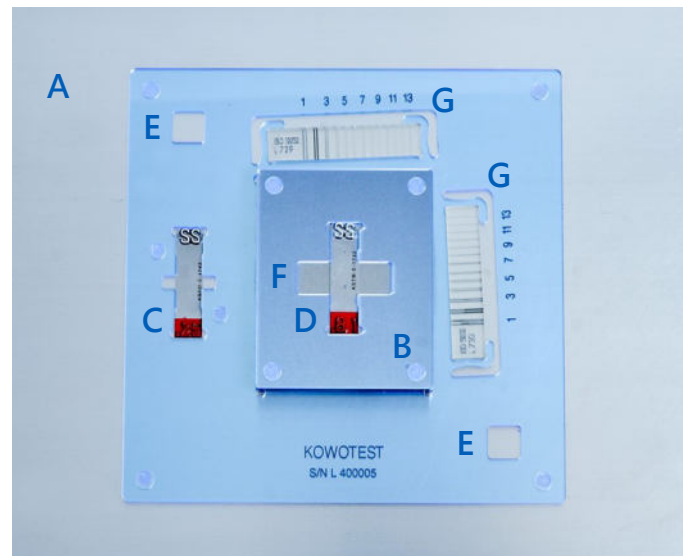
Complete with Hole Type IQI ASTM E1742 - AL size .50 and 2.0  
Test Certificates, Declaration of Conformity

### Optional :

Holder for Duplex Plate Phantom Type 2, stainless steel  
for clamping and easy positioning of both versions - HM and LM

Duplex Wire Type IQI acc. to ASTM E2002, ISO 13232-5 - D13

*Duplex Wire Type IQIs not included but required.*



Article No.: 11 00177

Article No.: 11 00178

Article No.: 11 00179

Article No.: 11 00155

