



## X-Check FLU X-ray Test Phantom

*Test object for constancy tests of  
fluoroscopic and indirect radiographic  
X-ray equipment*

### Features

- ▶ Suitable for constancy tests of fluoroscopic and indirect radiographic X-ray equipment
- ▶ Complies with IEC 61223-2-9\*
- ▶ Simulates the patient with respect to attenuation and hardening of the radiation beam
- ▶ Provides information related to the imaging geometry and quality by containing specific detailed test components
- ▶ Suitable for overcouch, undercouch and wallstand installations
- ▶ Can be used together with the dosimeter e.g. CONNY II or DIADOS

X-Check FLU is a test object for constancy tests of fluoroscopic and indirect radiographic X-ray equipment. The test object includes special structures and attenuation plates according to the IEC standard 61223-2-9\*. It consists of a structure plate, a 30 mm thick acrylic attenuation phantom, a 1.3 mm Cu plate and parts to assemble it as a measuring stand. Instead of the included acrylic phantom, a 25 mm Al absorber, which is available as an option, might be used. This absorber can be slid into the collimator rails.

The complete measuring stand as shown in the picture above includes all test devices and structures, so that all characteristics can be tested simultaneously.

For the required entrance dose measurements the dosimeters CONNY II or DIADOS are recommended. The delivery includes a case and a manual in English. The X-Check FLU is also available in a combined package RAD/FLU which includes an additional structure plate to cover both applications, direct X-ray radiography and fluoroscopic/indirect radiography.

### Specification

- ▶ Type of product X-ray test object according to IEC 61223-2-9\*
- ▶ Application Constancy tests of fluoroscopic and indirect radiographic X-ray equipment
- ▶ Structures
  - 10 mm grid (radiologically viewable)
  - 2 grey-scale test fields, producing an image of a disk within a square
  - low-contrast test, 19 circles producing contrasts from 0.5 % to 20 %
  - line group test pattern (L659098)
- ▶ Attenuation plates
  - 30 mm PMMA (acrylic)
  - 1.3 mm copper
- ▶ Dimensions
 

Structure plate	9 mm x 300 mm x 300 mm 0.35 in x 11.81 in x 11.81 in
PMMA phantom	30 mm x 300 mm x 300 mm 1.18 in x 11.81 in x 11.81 in
Cu plate	1.3 mm x 300 mm x 300 mm 0.05 in x 11.81 in x 11.81 in
- ▶ Height over all 220 mm; 8.66 in
- ▶ Weight 6 kg; 13.2 lbs approx. including attenuation phantoms

### Ordering Information

- L981319 X-Check FLU base package  
test object for constancy tests of fluoroscopic and indirect radiographic X-ray equipment
- L981321 X-Check RAD/FLU base package  
test object for constancy tests of radiographic and fluoroscopic X-ray equipment

### Options

- T10007 CONNY II Dosimeter, battery operated
- L981912 Absorber 25 mm Al for overcouch tubes with rail distance 177 mm
- L981913 Absorber 25 mm Al for overcouch tubes with rail distance 170 mm
- L991069 DensiX densitometer, power supply required
- L653003 Magnifying Glass

\*IEC 61223-2-9: "Evaluation and routine testing in medical imaging departments: Constancy tests - Equipment for indirect radiography and indirect radiography"