

## Model 181-4000 Radiographic/Fluoroscopic QA Kit

The Radiographic/Fluoro Kit contains the necessary test instruments for doing routine quality control tests of radiographic, fluoroscopic, and tomography x-ray units. Each test tool within the kit is designed to evaluate one of the many important imaging parameters within the x-ray system.

Instructions for all the tools are in a hardcover binder for easy location and availability. The instructions are “cookbook” easy so that personnel will find the procedures easy to do and understand. The user will be able to immediately begin recording data on the sample quality control forms that are included with the instructions.

### Model 181-4000 includes:

#### Model 4000M+, Non-invasive X-Ray Beam Analyzer

Simultaneously measures dose, dose rate, kVp and time, calculated mAs, stores waveform. Suitable for mammographic, conventional radiographic and fluoroscopic machines

#### Model 112B, Focal Spot Test Tool

Measures resolution from 0.84 to 5.66 lp/mm, consists of a six inch acrylic cylinder with a 12 group bar pattern target mounted on top.

#### Model 115A, Half-Value Layer Attenuator Set

Consists of 1 x 2 mm, 2 x 1 mm, 2 x 0.5 mm, 1 x 0.2 mm, and 3 x 0.1 mm, 10 x 10 cm attenuators, 99.0% pure aluminum 1100 alloy.

#### Model 117, Aluminum Step Wedge

High-purity aluminum alloy, 11 steps 3 mm high and 12.7 mm deep.

#### Model 132, Tomographic Test Tool

Set of six 9 cm diameter acrylic disks, consisting of one resolution disc, one position/thickness disc, one uniformity/ beam path disc, and spacers, 1, 2 and 4 cm thick.



#### Model 141, High Contrast Resolution Test Tool

18 x 18 x 1 cm plastic with 8 wire mesh patterns inside, 16 to 60 mesh.

#### Model 143D, Film/Screen Contact Test Tool

Perforated brass, 37 x 44.5 cm plate with 2.4 mm holes spaced 4 mm center to center.

#### Model 144, Grid Alignment Test Tool

Consists of three lead blockers with precise hole locations, one large, two small

#### Model 151, Low Contrast Resolution Test Tool

Consists of two aluminum blocks, one lead blocker and one aluminum resolution plate. 18 x 18 x 4.5 cm.

#### Model 162A, Beam Alignment Test Tool

Acrylic cylinder, 7 cm diameter, 16 cm high provides a simple test of the x-ray beam alignment. When used with model 161B collimator test tool misalignments of 1% to 2% can be visualized.

#### Model 161B, Collimator Test Tool

Etched brass plate 20 x 25 cm, evaluates the collimator light field and x-ray field congruence according to CDRH specifications.

#### Model 090, Tape Measure

#### Model 781A, QA Handbook

Contains instruction manuals for all devices supplied in the kit, procedures for various tests and sample quality control forms.

#### Model 080B, Carrying Case

The 181-4000 kit is packaged in a 22 x 40 x 61 cm foam-lined carrying/storage case. The kit and case weigh a total of 25 kg (55 lbs).