The HVL Filter Holder is designed to simplify the routine HVL measurement process and eliminates the need to tape HVL filters to the collimator housing. Filters are protected from damage since they are not in direct contact with the application and removal of heavy medical/surgical tape.

The filter holder consists of a poly-carbonate base plate, 9.5” x 9.5”. The material can easily be modified to accommodate the two most common collimator track sizes. The base may also be attached with the provided velcro-type strips for odd sized collimators. An acrylic pocket is permanently bonded to the center of the base plate. It is open on one side and holds a Standard or High Purity Al filter set.

Filter options include:
- Model L-330 Standard Aluminium HVL Filter Set
- Model L-343 Ultra High Purity Aluminium HVL Filter Set (Mammography)
- Model L-433 Copper HVL Filter Set

HVL Filter Holder

Quick check on image/video resolution

With a misaligned fluoroscopic image intensifier system, any portion of the fluoroscopic field that falls outside the image receptor does not contribute to the useful image and can lead to unnecessary exposure to the patient. The Fluoroscopic Beam Alignment device provides a simple but critical measurement to identify a misaligned fluoroscopic system. The device when placed in the center of the image receptor is designed to correct or optimize fluoroscopic collimation.

The Fluoroscopic Beam Alignment device consists of an aluminum plate with 4 sliding brass strips set in recessed channels. The strips define the border or visible area of the image receptor and are adjustable with respect to the center of the measurement plate. A plastic overlay provides a vertical displacement of the brass strips. Holes drilled in half-inch intervals through the anterior of each channel are filled with higher density material. Visibility of the plugs on the fluoroscopic image permits their use as a means of centering the device.

Fluoroscopic Alignment Device

Quick check on an image/video resolution

Quick check on an image/video resolution

The Fluoroscopic Resolution Test Tool provides a quick general check on Image intensifier or digital video system resolution.

The Filter L619 contains resolution values from 30 LPI to 100 LPI. The model features four plates’ positions are purposely arranged to permit better visualization of the sometimes subtle changes in mesh thickness.

Fluoroscopic Resolution Test Tools

Test fluoroscopic system output

The Model L706 provides the necessary patient phantom attenuation material to test the exposure rate output of any standard or digital fluoroscopic system.

The Patient Penetrometer Kit is designed to work with most any X-ray exposure or multimeter measurement device.

The four plates of high-purity (1100) aluminum simulate the attenuation of 25cm of water or a very large adult abdomen at 90 kvp. Two of the plates simulate a child abdomen or adult chest. The 7” x 7” “stop plates” allow the user to evaluate the automatic brightness control at maximum output. A 7” x 7” x 0.032” contrast gradient plate with four holes, each twice the area of the previous smaller hole, is placed between the 0.95 cm (3/8”) aluminum plate (two above and two below) to determine the contrast gradient of the image system.

Patient Penetrometer

Quick check on CR/DR imaging systems

The CR/DR Test Tool is designed for the evaluation of filmless digital CR (Computed Radiography) and DR (Digital Radiography) imaging systems. The CR/DR tool is a valuable asset to the QA technologist and the Medical Physics for determining the source of an image quality problem or complaint.

CR/DR Test Tool

For voluntary compliance with NEMA XR 21

The NEMA-SCAI phantom is designed to evaluate and standardize cathereterization image quality. It is the result of collaborative efforts between the Society for Cardiac Angiography and Interventions and the National Electric Manufacturers Association. The phantom specifically enables voluntary compliance with the recently published performance standard NEMA XR 21.

The Model 901 is manufactured from PMMA with X-ray absorption properties similar to soft tissue at diagnostic energies. It contains a variety of static and dynamic test targets for objective assessment of resolution, motion unsharpness and radiation exposure. The sectional design allows for configuration in a wide range of thicknesses from 5 cm to 30 cm simulating fluoroscopy from infants to large adults patients. The phantom is ideal for routine assessment of the entire imaging system.

CR/DR QA Phantom

Solid assessment tool for x-ray image quality programs

The Radiography Fluoroscopy QA Phantom is designed to provide physicians with an opportunity for a comprehensive review of their Radiography / Fluoroscopy facility, image quality programs.

The Radiography / Fluoroscopy QA Phantom can be used for initial QA assessment and routine monthly QA testing to help ensure patients are receiving the best possible X-ray examinations.

The CIRS Model 903 is manufactured from PMMA equivalent epoxy that offers the same X-ray attenuation properties as acrylic with significantly greater durability.

The overall phantom measures 25 cm wide x 25 cm long x 20.7 cm high and consists of three attenuation plates, one test object plate and a detachable stand for easy, reproducible set-up. Test objects include high-resolution copper mesh targets from 12 – 80 lines per inch and two separate contrast-detail test objects.

Optional accessories are available to evaluate ionizing contrast visibility and linearity as well as digital subtraction effectiveness under various conditions.

Features:
- Suitable on CR, DR & Fluoroscopy systems
- Durable PMMA-equivalent epoxy
- Multiple configurations
- Assessments: - Entrance skin dose - Minimum detectable contrast (%)
- Low contrast resolution - Optical density - High contrast resolution - DSA function and arterio-vein visibility

Model 903

Radiography Fluoroscopy QA Phantom

Quick check on image/video resolution

The RD/FL Phantoms are tools used to assess the overall radiographic and fluoroscopic image quality and performance of a standard imaging system.

The Model L-656 RD/FL Digital Test System resolution.

The Model L-647 radiographic film is ideal for quick checks on automated chest systems.

Test fluoroscopic system output

The RD/FL/Flo test tool is designed for the evaluation of the general diagnostic fluoroscopic beam correction alignment device.

This QA device incorporates a variety of testing parameters. When used daily, the model 770 tracks geometry (region of interest) symmetry, line pair resolution as well as low and high contrast performance. Measurements of the various targets allow for evaluation of both the monitor and printed film image.

RD/FL Contrast/Resolution Test Tools

Quick check on CR/DR imaging systems

The RD/FL Phantoms are tools used to assess the overall radiographic and fluoroscopic image quality and performance of a standard imaging system.

The Model L-656 RD/FL Digital Test System is designed to work with most any X-ray exposure or multimeter measurement device. The four plates of high-purity (1100) aluminum simulate the attenuation of 25cm of water or a very large adult abdomen at 90 kvp. Two of the plates simulate a child abdomen or adult chest. The 7” x 7” “stop plates” allow the user to evaluate the automatic brightness control at maximum output. A 7” x 7” x 0.032” contrast gradient plate with four holes, each twice the area of the previous smaller hole, is placed between the 0.95 cm (3/8”) aluminum plate (two above and two below) to determine the contrast gradient of the image system.

RD/FL Test Tools

The RD/FL Phantoms are tools used to assess the overall radiographic and fluoroscopic image quality and performance of a standard imaging system.

The Model L-656 RD/FL Digital Test System is designed to work with most any X-ray exposure or multimeter measurement device. The four plates of high-purity (1100) aluminum simulate the attenuation of 25cm of water or a very large adult abdomen at 90 kvp. Two of the plates simulate a child abdomen or adult chest. The 7” x 7” “stop plates” allow the user to evaluate the automatic brightness control at maximum output. A 7” x 7” x 0.032” contrast gradient plate with four holes, each twice the area of the previous smaller hole, is placed between the 0.95 cm (3/8”) aluminum plate (two above and two below) to determine the contrast gradient of the image system.

RD/FL Contrast/Resolution Test Tools

Quick check on image/video resolution

The RD/FL Phantoms are tools used to assess the overall radiographic and fluoroscopic image quality and performance of a standard imaging system.

The Model L-656 RD/FL Digital Test System is designed to work with most any X-ray exposure or multimeter measurement device. The four plates of high-purity (1100) aluminum simulate the attenuation of 25cm of water or a very large adult abdomen at 90 kvp. Two of the plates simulate a child abdomen or adult chest. The 7” x 7” “stop plates” allow the user to evaluate the automatic brightness control at maximum output. A 7” x 7” x 0.032” contrast gradient plate with four holes, each twice the area of the previous smaller hole, is placed between the 0.95 cm (3/8”) aluminum plate (two above and two below) to determine the contrast gradient of the image system.

RD/FL Contrast/Resolution Test Tools

Quick check on image/video resolution

The RD/FL Phantoms are tools used to assess the overall radiographic and fluoroscopic image quality and performance of a standard imaging system.

The Model L-656 RD/FL Digital Test System is designed to work with most any X-ray exposure or multimeter measurement device. The four plates of high-purity (1100) aluminum simulate the attenuation of 25cm of water or a very large adult abdomen at 90 kvp. Two of the plates simulate a child abdomen or adult chest. The 7” x 7” “stop plates” allow the user to evaluate the automatic brightness control at maximum output. A 7” x 7” x 0.032” contrast gradient plate with four holes, each twice the area of the previous smaller hole, is placed between the 0.95 cm (3/8”) aluminum plate (two above and two below) to determine the contrast gradient of the image system.

RD/FL Contrast/Resolution Test Tools

Quick check on image/video resolution

The RD/FL Phantoms are tools used to assess the overall radiographic and fluoroscopic image quality and performance of a standard imaging system.

The Model L-656 RD/FL Digital Test System is designed to work with most any X-ray exposure or multimeter measurement device. The four plates of high-purity (1100) aluminum simulate the attenuation of 25cm of water or a very large adult abdomen at 90 kvp. Two of the plates simulate a child abdomen or adult chest. The 7” x 7” “stop plates” allow the user to evaluate the automatic brightness control at maximum output. A 7” x 7” x 0.032” contrast gradient plate with four holes, each twice the area of the previous smaller hole, is placed between the 0.95 cm (3/8”) aluminum plate (two above and two below) to determine the contrast gradient of the image system.

RD/FL Contrast/Resolution Test Tools

Quick check on image/video resolution

The RD/FL Phantoms are tools used to assess the overall radiographic and fluoroscopic image quality and performance of a standard imaging system.

The Model L-656 RD/FL Digital Test System is designed to work with most any X-ray exposure or multimeter measurement device. The four plates of high-purity (1100) aluminum simulate the attenuation of 25cm of water or a very large adult abdomen at 90 kvp. Two of the plates simulate a child abdomen or adult chest. The 7” x 7” “stop plates” allow the user to evaluate the automatic brightness control at maximum output. A 7” x 7” x 0.032” contrast gradient plate with four holes, each twice the area of the previous smaller hole, is placed between the 0.95 cm (3/8”) aluminum plate (two above and two below) to determine the contrast gradient of the image system.