# MODEL L-601, 618 & 619 FLUOROSCOPIC RESOLUTION TEST TOOL August 2019

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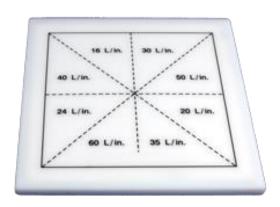
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#### **Overview**

he Fluoroscopic Resolution Test Tool is an acrylic plate containing eight groups of copper and brass mesh screening. Three models are offered, each with different resolution values. These mesh groups are purposely arranged in a nonsequential rotational pattern to permit better visualization of the sometimes subtle changes in mesh thickness. These test tools provide a quick general check on image intensifier or digital video system resolution.

Model Number	Resolution	Part Number
601	20-70 LPI	99-9407
618	30-100 LPI	99-9408
619	60-150 LPI	99-9409



## **General Procedure**

As previously noted, it is preferred that system evaluation be performed at least monthly. More frequent evaluations are suggested to prevent any unexpected imaging problems before actual clinical procedures are performed with the equipment. For more sensitive procedures, like C-arm studies in the OR, consideration should be given to utilizing the test tool before each use of the equipment.

## Instructions

- 1. Place the test tool on the (fluoro) table or imaging receptor. Collimate so only the test tool is visible on the image display.
- 2. Position the imaging unit approximately 30.5 cm (12 in.) above the table. The same height should be used for every evaluation.
- 3. During fluoroscopy, utilizing radiation safety methods (lead gloves/ apron), center the test tool under the image intensifier. Approximately 70 kVp is recommended for the Fluoro kV.
- 4. Evaluate the fluoroscopic image and determine the smallest mesh pattern that is clearly visible. This result should be documented.

### Results

A properly functioning fluoroscopy system should be able to resolve at least the 30 mesh at the center of the image in the smallest mode. From image to image, the smallest mesh visible should not decrease by more than one step. Change in resolution greater than one step should be reported, and corrective action (service) should be scheduled.