

FLUKE®

Biomedical

Nuclear Associates

56-515 & 56-516

Moti X-Ray Mask

Users Manual

**Fluke Biomedical
Radiation Management Services**

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Section 1

Introduction

1.1 Product Description

This new radiation shield provides complete protection to the eyes, thyroid and neck of x-ray personnel while allowing full visibility and freedom of movement, especially during special procedures. It forms a stationary window in front of the wearer's face. The head is free to move in any direction while the mask remains fixed to the shoulders. Eyeglasses can be worn without any interference. When used with a lead apron, the combination shields the entire body from scattered radiation.

The mask consists of a curved, optically clear, leaded-acrylic window mounted in a rugged plastic frame. The windows 0.35 mm lead equivalence provides significant absorption (81.9 to 96.6%) of heavily filtered, 3-phase, diagnostic x-ray beams. A Velcro connection-closure makes the mask easy to put on and take off.

Table 1-1. Exposures (In mR) at Fixed 72" Distance

KV Setting	No Filtration		0.50 mm Lead Apron		X-Ray Mask	
	mR	%abs.	mR	%abs.	mR	% abs.
60	170	0.00	1.64	99.0	5.86	96.6
80	319	0.00	6.7	97.9	24.4	92.4
100	495	0.00	20.6	95.8	54.9	88.9
126	800	0.00	44.7	94.4	113.	85.9
150	970	0.00	70.5	92.7	176.	81.9

1.2 Donning the Mask

The mask is held in place by attaching its soft Velcro-surfaced base to mating Velcro applied to the shoulders of a lead apron.

The 56-515 X-Ray Mask (without apron) includes a kit for affixing the mating to your own lead apron.

In the 56-516 X-Ray Mask/Apron combination, the Velcro has been pre-sewn to the apron's shoulder supports.

1.3 Maintenance

To remove smudges from the mask, wipe with a damp cloth. To remove stains, use a professional non-abrasive plastic cleaner. If the lens fogs up, clear with any eyeglass defogger.

Avoid excessive exposure to heat or sunlight. To protect against scratches, store the mask so that the lens does not touch any surface or object.

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