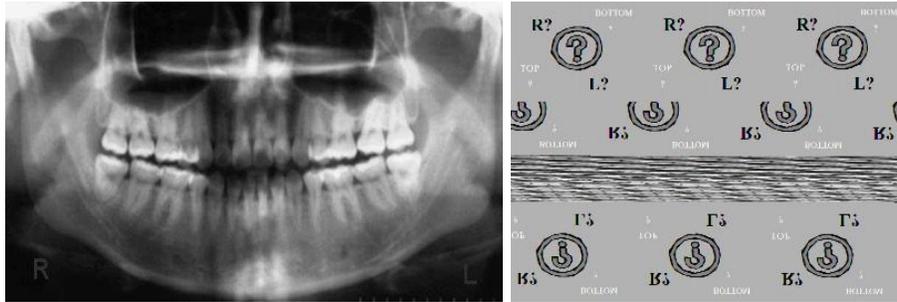


## Backward Cassette Placement with Panoramic X-Ray Machines (12/04)

**Question:** Is it true that some panoramic x-ray machines allow the cassette to be placed in backwards, resulting in a reversed image?



**Answer:** Yes. This is a concern that must be addressed. All panoramic units should be checked for the potential to load a cassette backwards. DIS is aware of two units with this potential and there may be others.

It was brought to the Dental Investigation Service's attention that the Orthopantomograph 100 panoramic cassette can be inserted backwards, resulting in a reversed image. Even though the reversed radiographic image bears telltale signs (reversed "left" and "right" marker and an image of the springs), there is potential for the error not being discovered. The Air Force Medical Logistics Office posted a medical alert and [DIS published recommendations to minimize the risk of incorrect cassette.](#)



Recently, the manufacturer of the Orthopantomograph 100, Instrumentarium-Imaging, developed a modification for its OP 100, OC 100, and Ortho ID panoramic units. Installation of these modified cassette-holders will ensure proper insertion of the cassette.



As another example, a standard cassette can be inserted backwards into the Planmeca PM 2002CC Proline. However, Planmeca has an optional cassette with a protruding "autoprint" feature that prevents reversed cassette-insertion. Even if the autoprint feature will not be utilized, purchase of this cassette should prevent incorrect insertion.

An alternative solution for cassettes which may be inserted backwards is to tape lead foil in the shape of an "X" on the back of the cassette that will serve as an indication on the processed film that the cassette was improperly loaded. In all cases, personnel should be adequately trained.

With so many panoramic machines on the market, every facility should evaluate their panoramic machine for the possibility of improper cassette-insertion. If the possibility exists, corrective action must be taken. For further assistance contact the Dental Investigation Service.

## Instrumentarium Imaging Announces Panoramic Radiography Modifications (3/04)

Instrumentarium Imaging has introduced a modification for the OP100, OC100 and OrthoID radiographic units. The design change will allow film cassette insertion into units only in the correct orientation and this change is intended to prevent inadvertent backward placement of the cassette into the unit that will result in a reverse-image film. The revision involves the addition of asymmetric pins to the top of the 15 x 30 cm film cassette and custom cassette holder guides that necessitates insertion in only one orientation.

### New Cassette Design with Pins



### Insertion of New Cassette into Modified Tunnel



Existing units can be upgraded with the purchase of kit that contains both the new tunnel end guides and cassettes.

### Upgrade Kit



Upgrade Kit Type	Kit code
Cassette with Kodak Lanex Medium screens with guides	60761
Cassette with Kodak Lanex Regular screens with guides	60762
Cassette with Kodak Ektavision screens with guides	60763
Cassette without screens with guides	60764

Existing cassettes can be used but will require shipment to the manufacturer for the proper placement of guide pins. To date, the manufacturer has not provided government prices or the time involved for factory upgrade. For pricing and further information please contact Instrumentarium Imaging (800) 558-6120, (414) 747-1030, (414) 481-8665 FAX or [info@usa.instrumentarium.com](mailto:info@usa.instrumentarium.com)

For a copy of the manufacturer's technical bulletin please click [here](#).