

**ADC COMPACT
BLACK BORDER
SOFTWARE**

USER MANUAL

ADC Compact Black Border Software

The ADC Compact Black Border Software is an optional module that uses a complex set of high level rule-based algorithms to automatically detect borders of single or multiple collimated images and increase their average density. This process greatly enhances image viewing.

In normal collimated images, the borders typically have a very low density, because these regions are not exposed to primary x-ray irradiation. The only contribution to image darkening there results from some scattered irradiation. The large amount of luminous flux that originates from these bright collimation areas diminishes eye sensitivity and hence reduces comfort of viewing, especially in the darker areas of the image.

The ADC Compact Black Border Software, by automatically increasing the average density of the collimation borders, removes this dazzle effect. At the same time, however, the software ensures that important contextual features in the border areas are preserved. Rather than being uniformly coloured, the borders are shielded by a semi-transparent mask, which increases image density and decreases contrast. This mask ensures that the continuity of anatomical contours and catheters is maintained.

Agfa's Compact Black Border Software operates autonomously and has a remarkably high success rate in statistical terms. Its ability to delineate and mask the borders provides optimal diagnostic viewing of collimated images.

Image without black border:



Image with black border:



Note that the full foot anatomy is visible also in the black strip.



Printed in Belgium
Published by Agfa-Gevaert N.V. , B-2640 Mortsel-Belgium
2206A GB 199805

