

Matesy GmbH

Steel domain analysis with the magneto-optical sensor system CMOS-MagView

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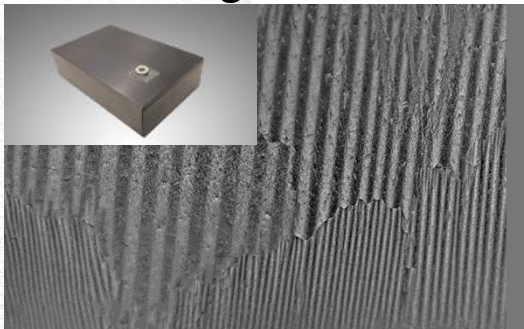
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Oriented Silicon Steel



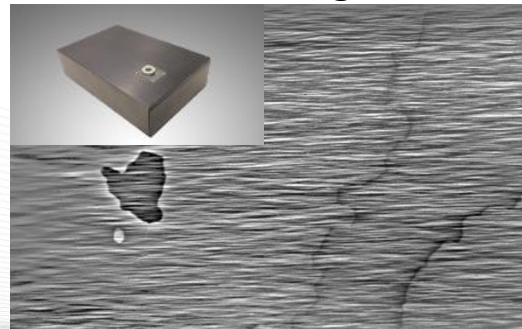
Non Oriented Silicon Steel

CMOS-MagView



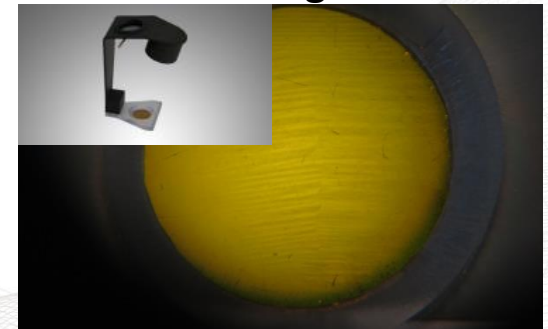
A Sensor (max: $\pm 2.6mT$)
Good domain orientation visibility
Medium domain wall recognition

BIAS CMOS-MagView



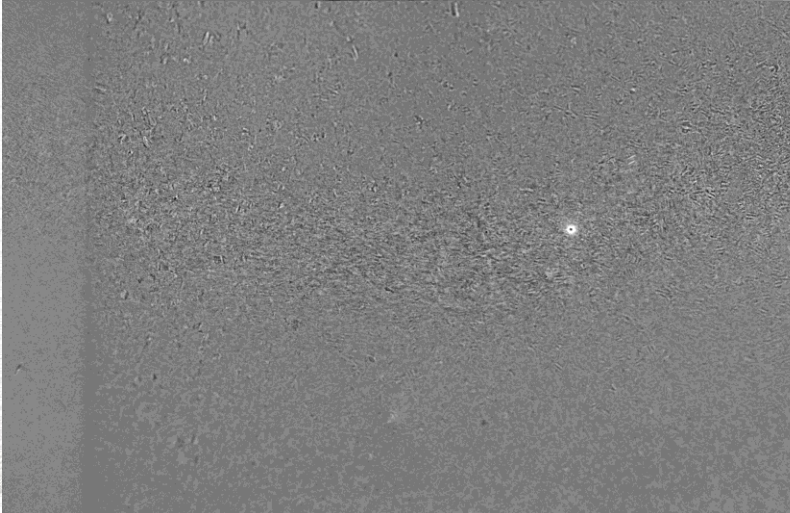
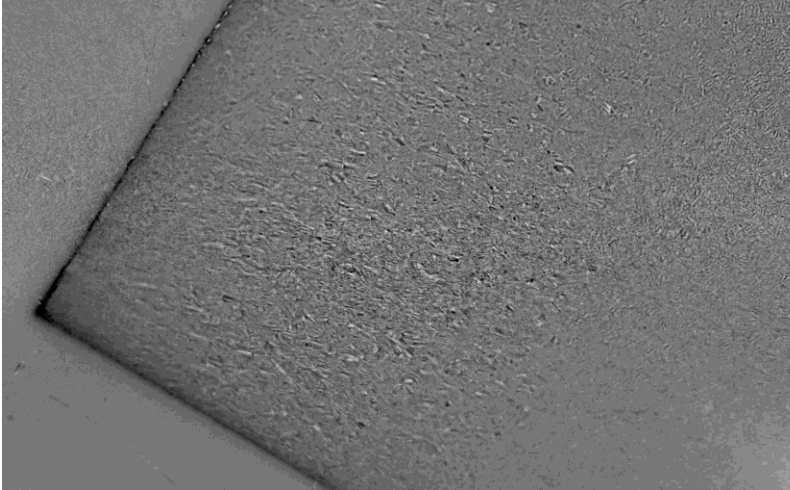
D Sensor (max: $\pm 7.7mT$);
external BIAS magnetic field
Domain orientation visibility adjustable
Most contrasty domain wall recognition

Handheld MagView

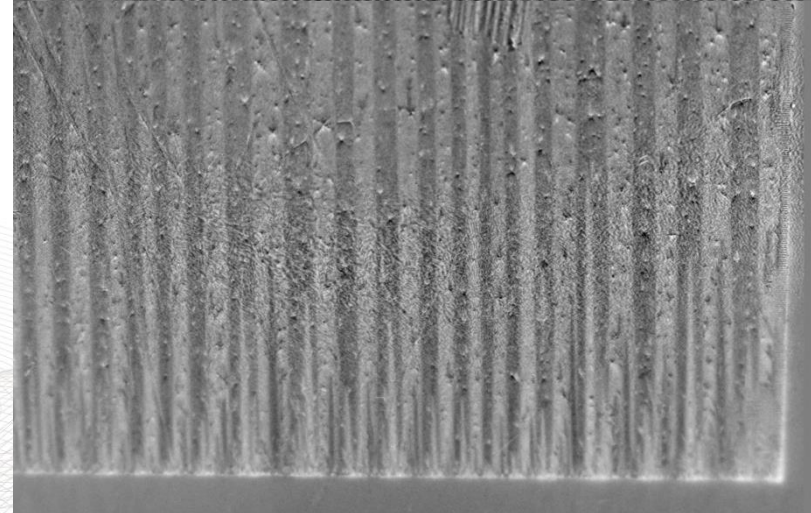
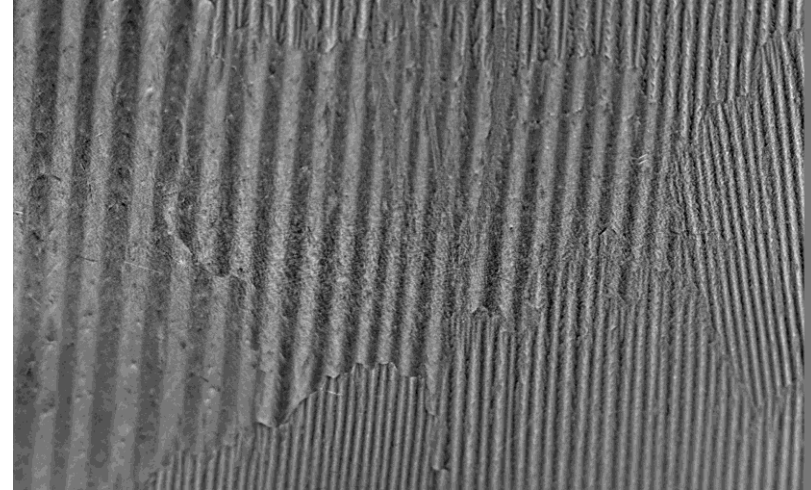
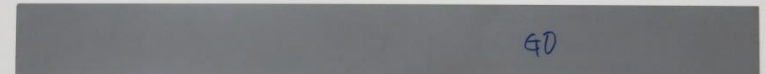


A Sensor (max: $\pm 2.6mT$); Mobile
Medium domain orientation visibility
Medium domain wall recognition

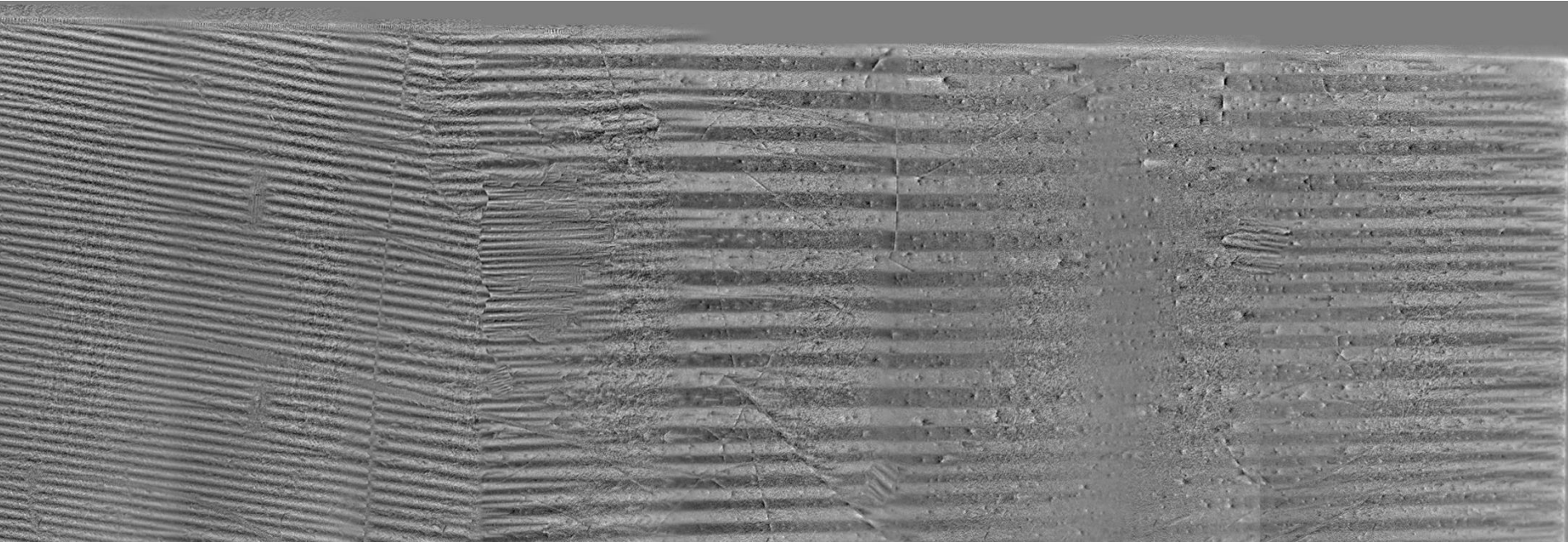
Non Oriented Silicon Steel



Oriented Silicon Steel



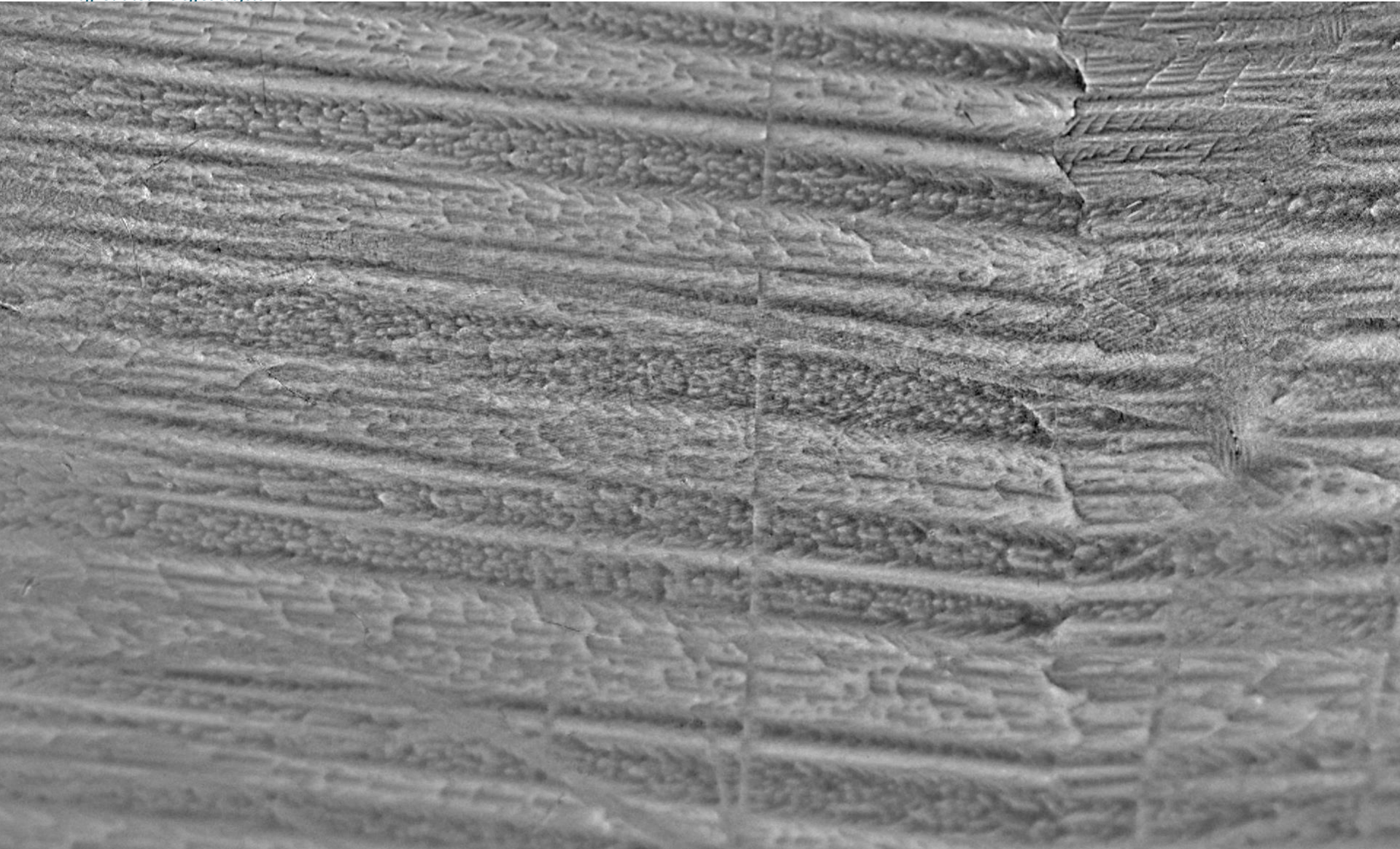
Domain-Mapping merged from 9 single images



Oriented Silicon Steel

GD

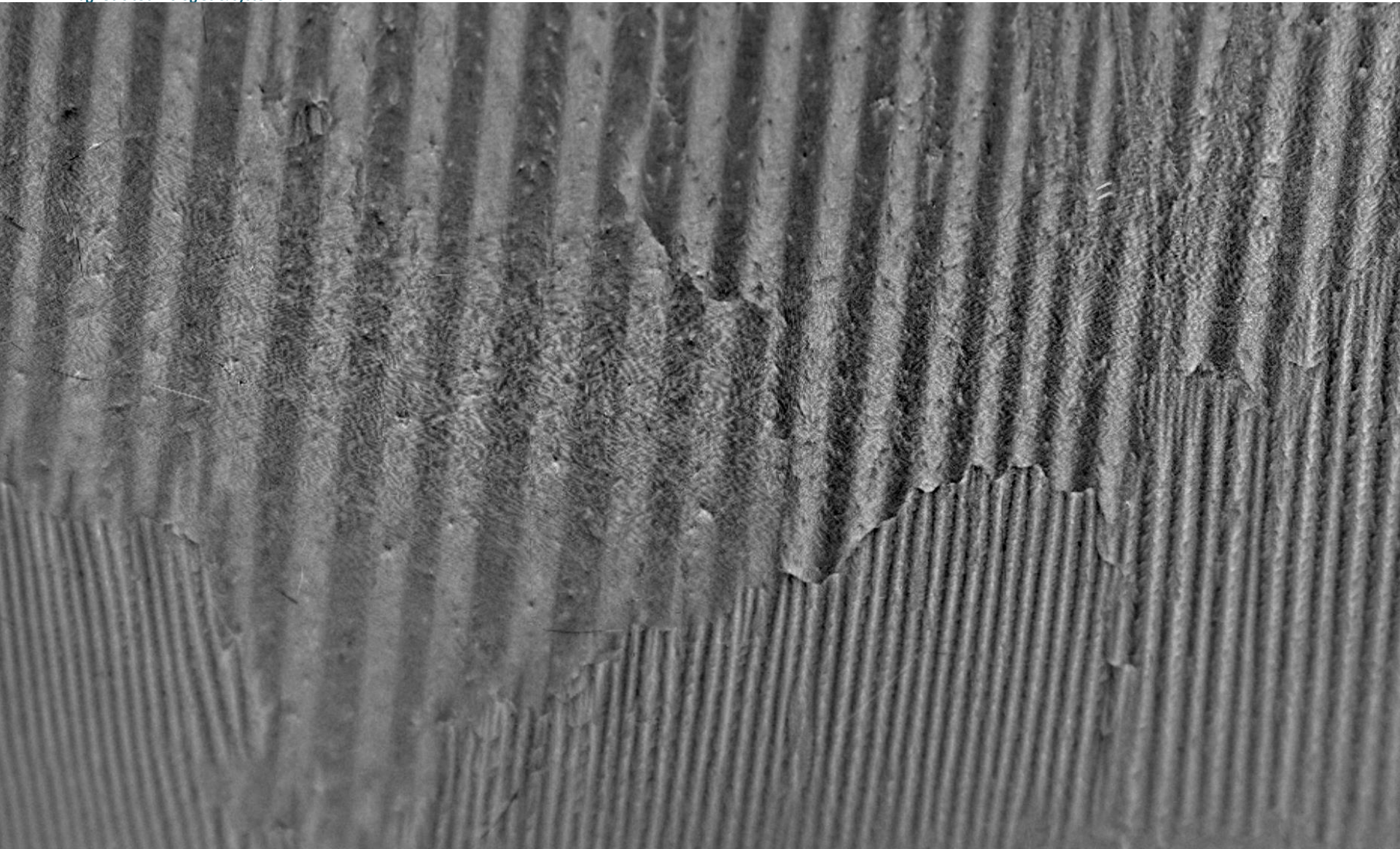
CMOS-MagView A Sensor



Oriented Silicon Steel

GD

CMOS-MagView A Sensor



Non Oriented Silicon Steel



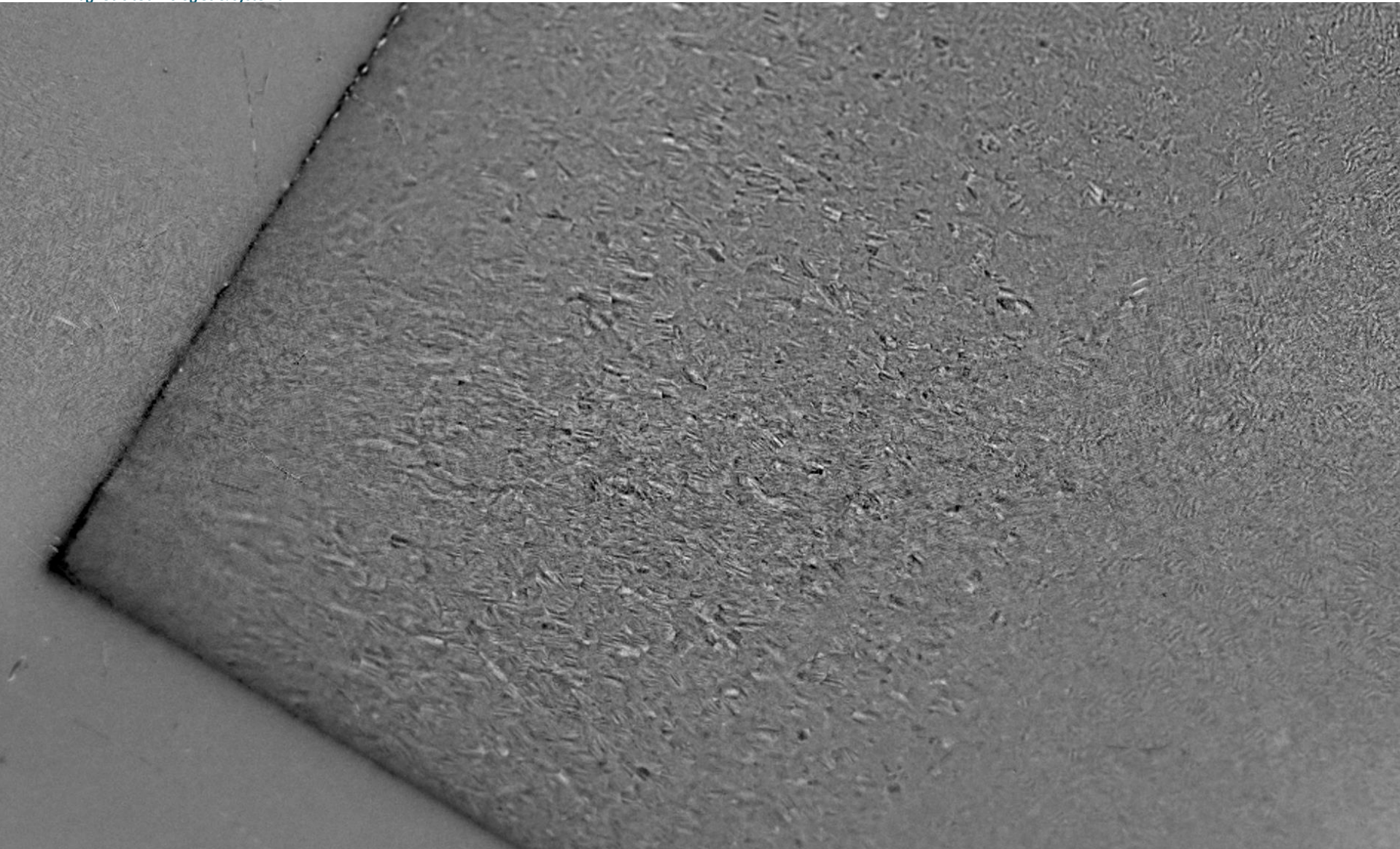
CMOS-MagView A Sensor



Non Oriented Silicon Steel



CMOS-MagView A Sensor



Oriented Silicon Steel

GD

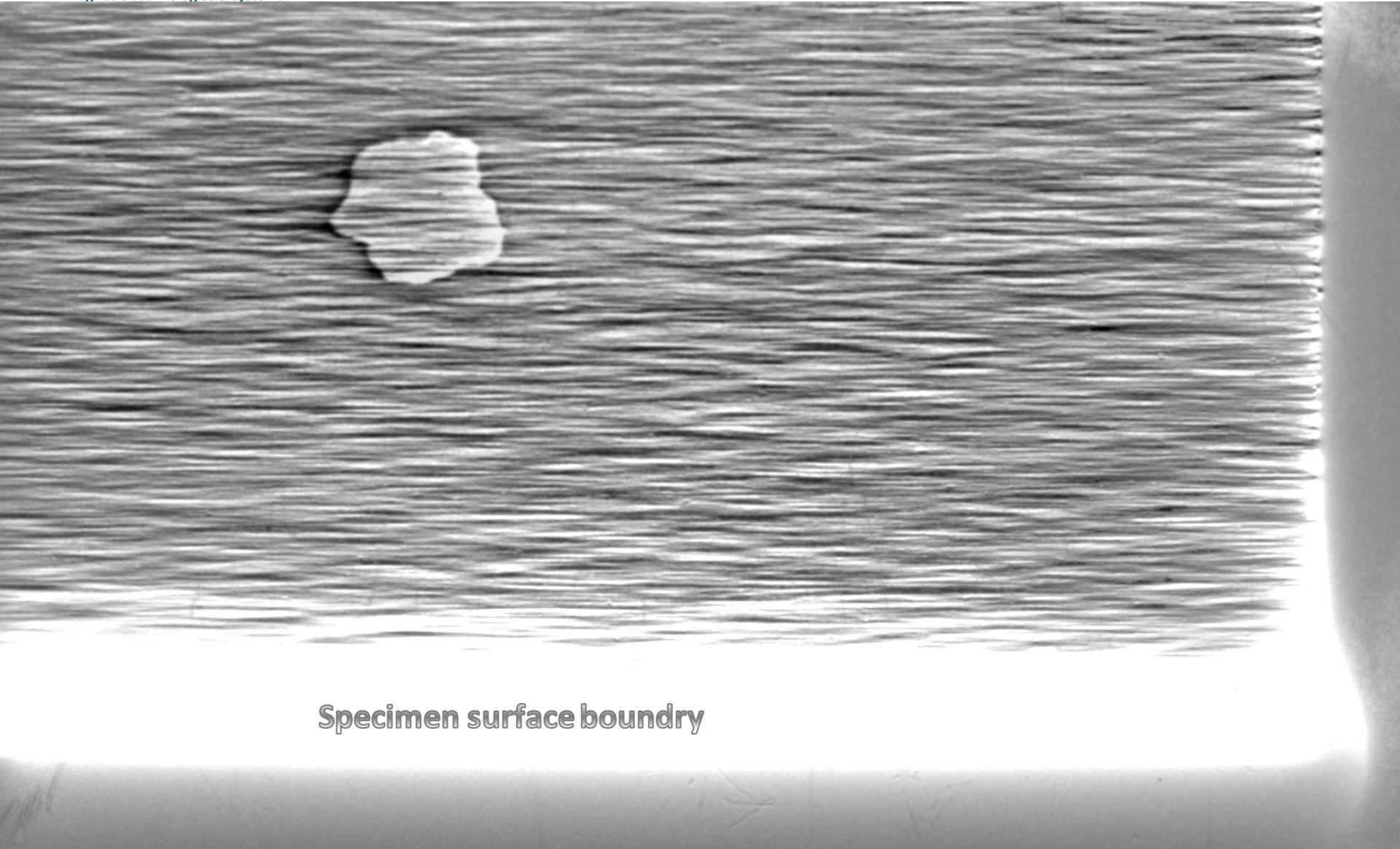
CMOS-MagView D Sensor





Specimen surface boundry



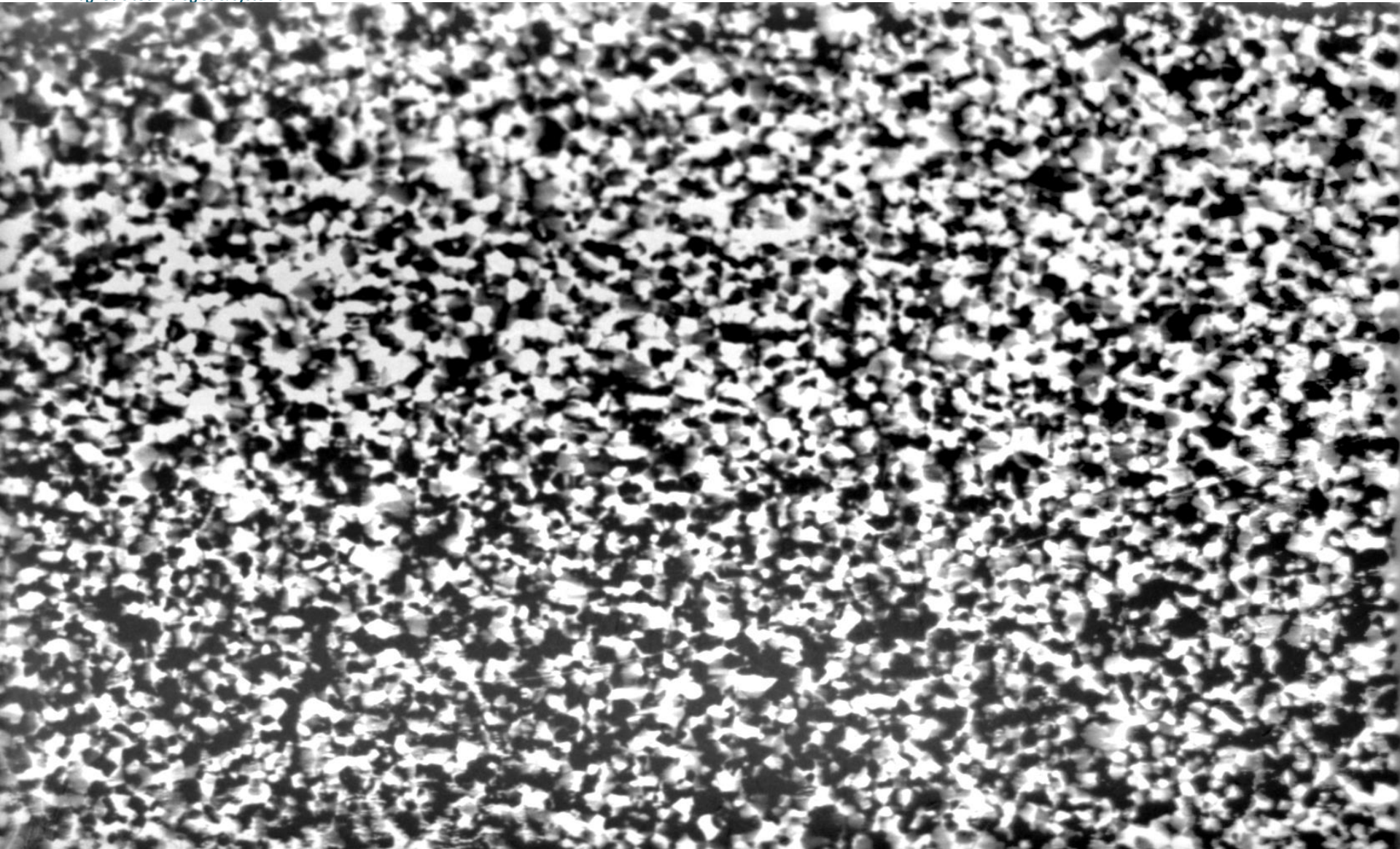


Specimen surface boundary

Non Oriented Silicon Steel

ON

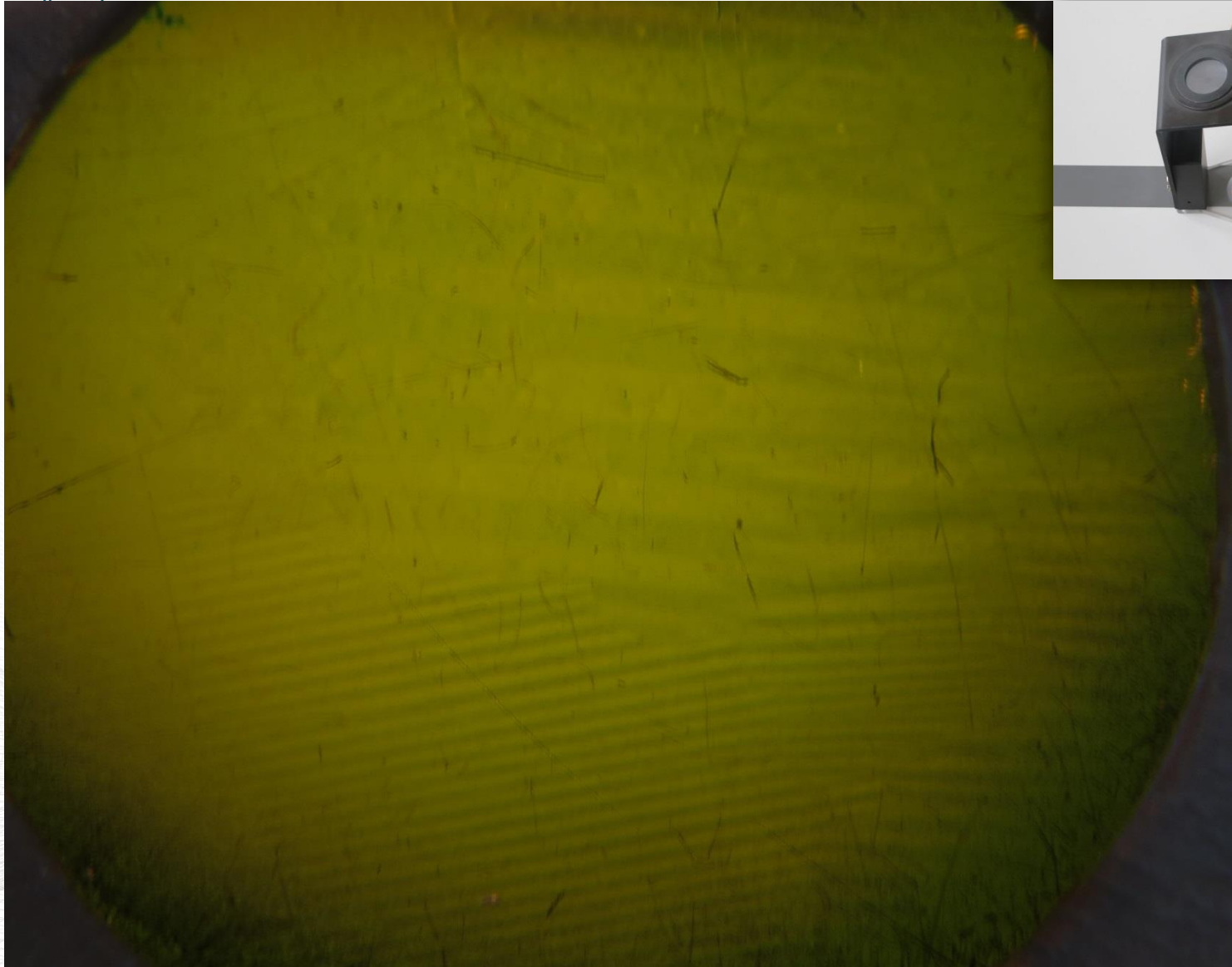
CMOS-MagView D Sensor



Oriented Silicon Steel

G0

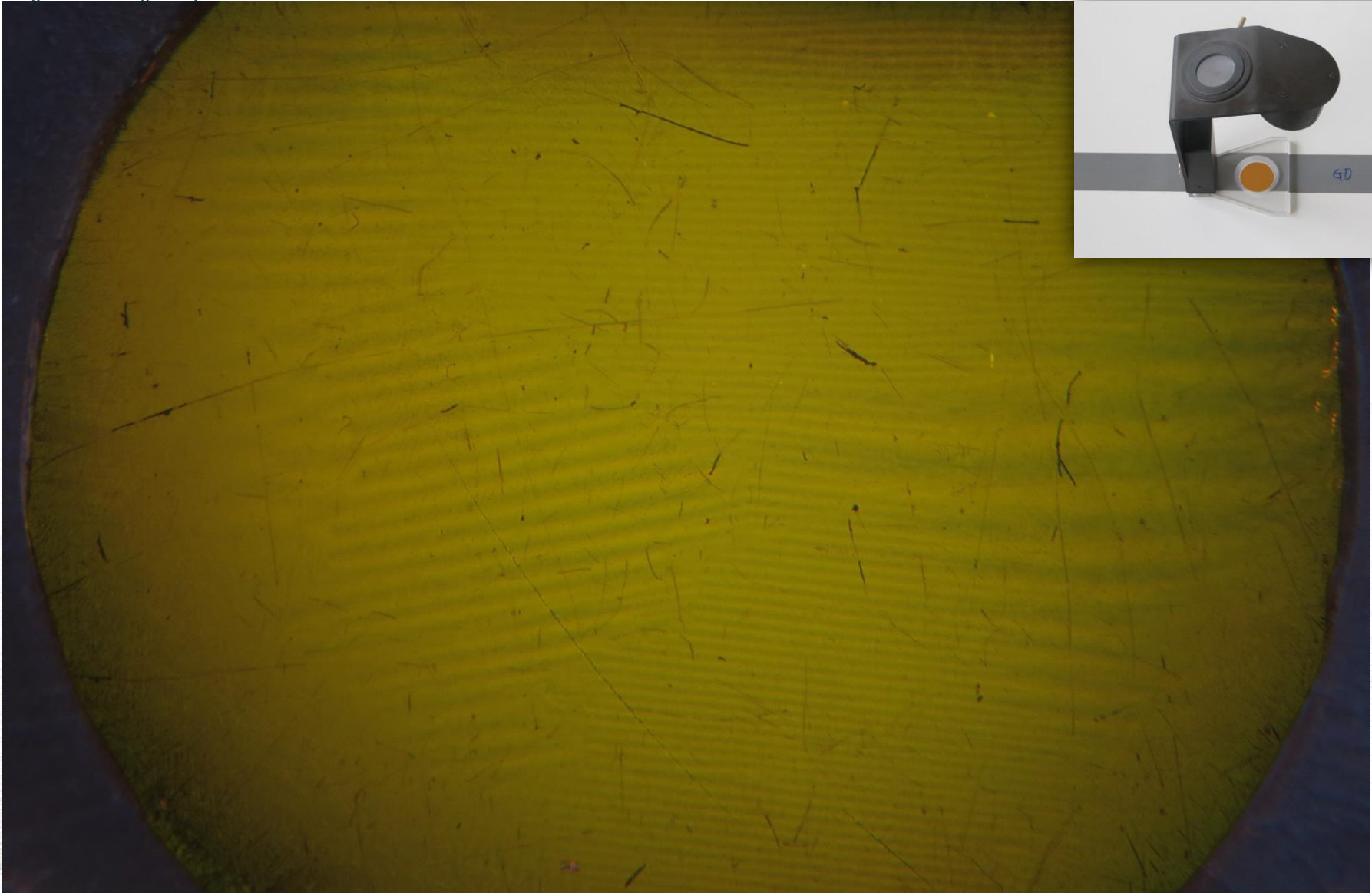
Handheld MagView A Sensor



Oriented Silicon Steel

G0

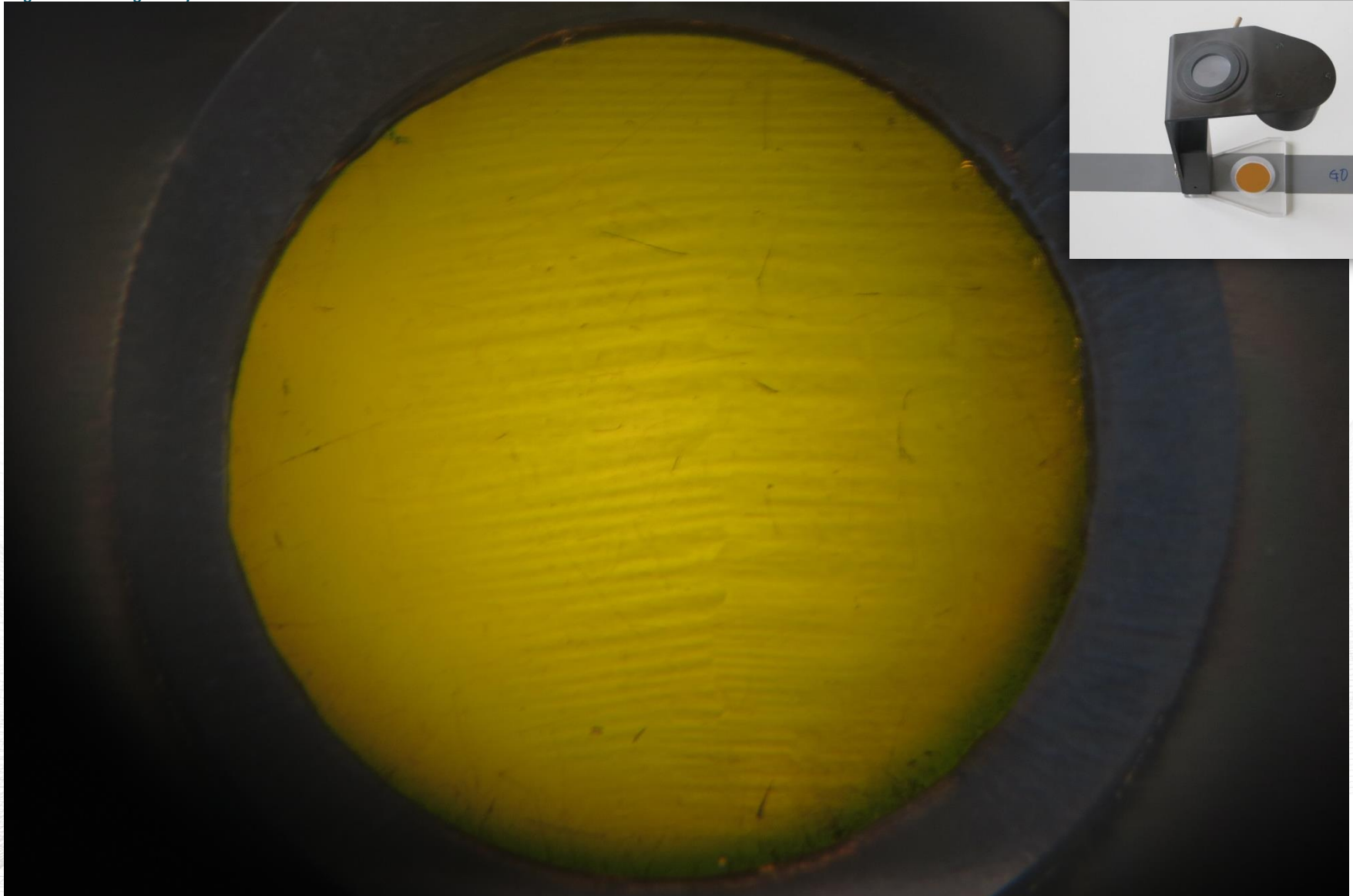
Handheld MagView A Sensor



Oriented Silicon Steel

G0

Handheld MagView A Sensor



Non Oriented Silicon Steel

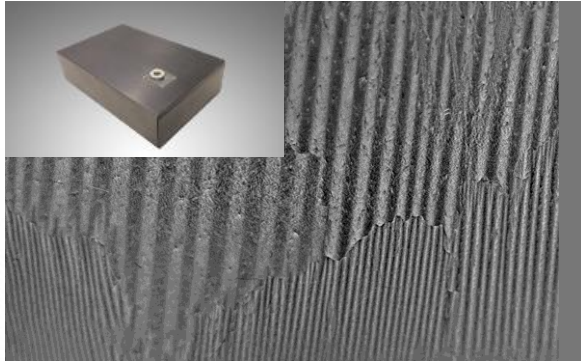


Handheld MagView A Sensor



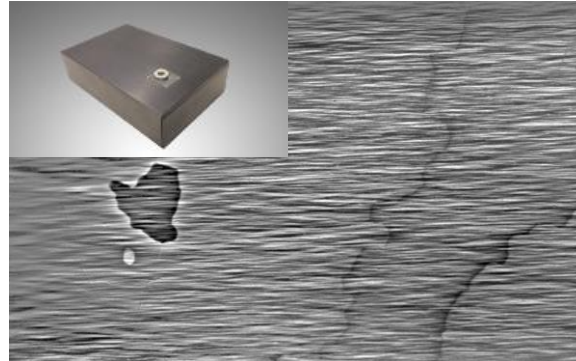
Specimen
surface
boundry

CMOS-MagView



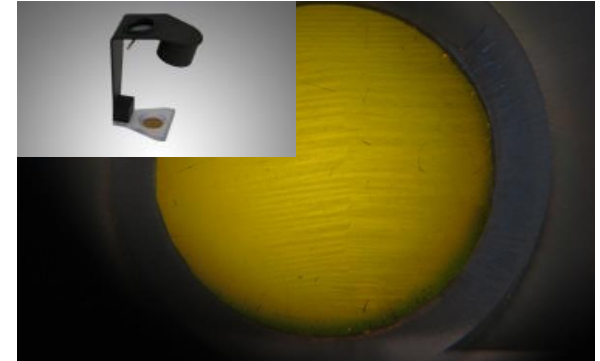
Very good visualization capabilities for oriented steel domain investigations.

BIAS CMOS-MagView



Due to the static external magnetic field, perfectly suited to investigate domain walls. With special adjustable magnetic field generator the BIAS CMOS-MagView can be easily upgraded to investigate domain wall movements.

Handheld MagView



Handheld MagView is best suited to be used for mobile needs since it's totally cordless can be easily operated.

Since the CMOS-MagView body is the same for BIAS CMOS-MagView (D sensor) and CMOS-MagView (A sensor) the system can be adjusted to have changeable sensor modules and external field generation module, providing both investigation methods within one system.