BAM
Bundesanstalt für
Materialforschung
und -prüfung

12200 Berlin, Germany
T: +49 30 8104-0
F: +49 30 8104-7 2222

CR Imaging Plate System

Certificate N°: BAM/ZBF/001/18

Hereby it is certified by the BAM Certification Body that the

Industrial CR Imaging Plate System

with the designation

Carestream INDUSTREX HPX-1 *Plus* using

Carestream INDUSTREX FLEX HR Digital Imaging Plates 6537

manufactured by

Carestream Health Inc.
Rochester, NY
USA

meets the requirements of the highest system class IP 1/80 according to EN 14784-1:2005 and ISO 16371-1:2011 for industrial computed radiography with phosphor imaging plates for non-destructive testing, if the exposure dose is at minimum 14.9 mGy. This dose corresponds to a CEN-Speed and ISO-Speed of 64 at a pixel size of 25 µm. CR system performance level I according to ASTM E 2446-16 for non-destructive testing is fulfilled at an ISO speed of 160. The maximum basic spatial resolution is 80 µm. Other system classes (CEN: IP 2/80 to IP 6/80) and CR performance levels (ASTM: level II and III) can be reached with lower exposure dose values (see test report No. 8.3 / 8285a of 2018-02-07 for all characterization data). The spider net graph with the summary of the CR system characterization according to ASTM E2446-16 is presented on the back side of this certificate.

The certification is performed on the basis of certification contract N° BAM-ZBF-0005-2010-Carestream according to standard ISO/IEC 17065:2012 and comprises a design type test (BAM Certification System I).

The products certified by BAM may be labeled with the BAM certification mark „BAM Baumustergeprüft"and/or "BAM Design-type tested" together with the certificate number.

This certificate is valid until **11 February, 2022.**

for Bundesanstalt für Materialforschung und -prüfung (BAM)
Unter den Eichen 87, 12205 Berlin, **2018-02-12**

Dr. R. Schmidt
BAM Certification Body

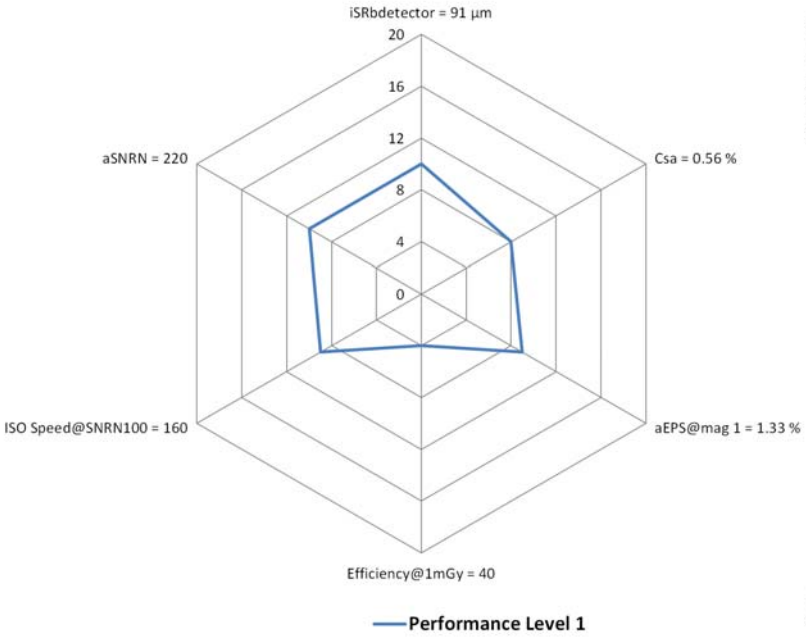
Dr. U. Zscherpel
Assessor

Distribution list: 1st Certificate holder 2nd BAM Certification Body

The BAM Certification Body has been accredited according to standard ISO/IEC 17065:2012 by the DAkkS (Deutsche Akkreditierungsstelle GmbH). The accreditation is valid for the scope given in certificate D-ZE-11075-21-00.

This certificate may only be published in full wording and without any additions. A revocable written consent shall be obtained from BAM beforehand for any amended reproduction or the publication of any excerpts. The German version is legally binding, except an English version is issued exclusively. Place of jurisdiction is Berlin.

Qualification of Carestream HPX-1 Plus system with Flex HR plates



System parameters:
Industrex scanner HPX-1 Plus S/N 1765
IP plates Flex HR type 6537
Scan resolution 25 µm
Laser low
PMT sensitivity 100

Annex to
Certificate BAM/ZBF/001/18
of 2018-02-12

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CR Imaging Plate System

Certificate N°: BAM/ZBF/002/18

Hereby it is certified by the BAM Certification Body that the

Industrial CR Imaging Plate System

with the designation

Carestream INDUSTREX HPX-1 *Plus* using

Carestream INDUSTREX FLEX XL Blue Digital Imaging Plates 5537

manufactured by

Carestream Health Inc.
Rochester, NY
USA

meets the requirements of the highest system class IP 1/50 according to EN 14784-1:2005 and ISO 16371-1:2011 for industrial computed radiography with phosphor imaging plates for non-destructive testing, if the exposure dose is at minimum 13.1 mGy. This dose corresponds to a CEN-Speed and ISO-Speed of 80 at a pixel size of 25 µm. CR system performance level I according to ASTM E 2446-16 for non-destructive testing is fulfilled at an ISO speed of 160. The maximum basic spatial resolution is 50 µm. Other system classes (CEN: IP 2/50 to IP 6/50) and CR performance levels (ASTM: level II and III) can be reached with lower exposure dose values (see test report No. 8.3 / 8285b of 2018-02-08) for all characterization data). The spider net graph with the summary of the CR system characterization according to ASTM E2446-16 is presented on the back side of this certificate.

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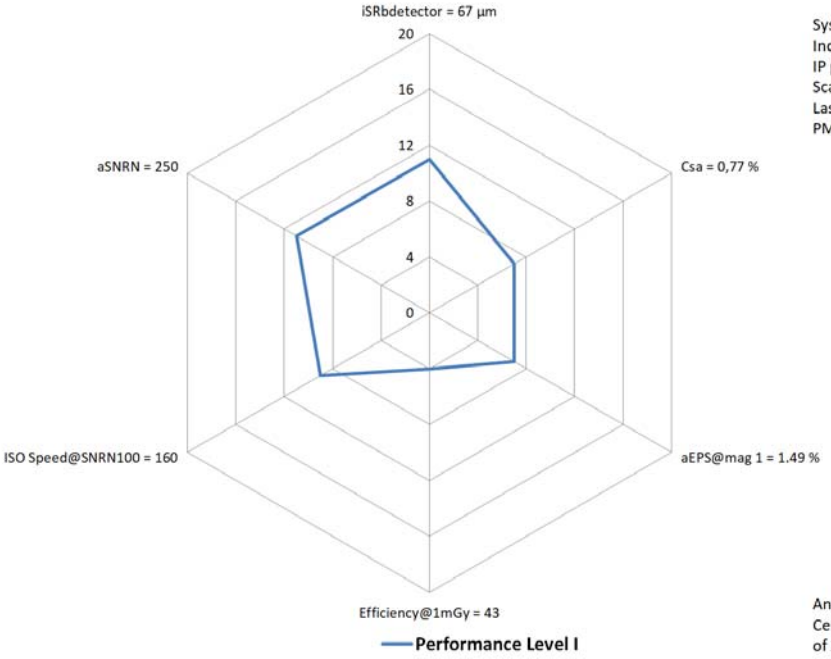
Qualification of Carestream HPX-1 Plus system with Flex XL blue plates



System parameters:
Industrex scanner HPX-1 Plus S/N 1765
IP plates Flex XL Blue type 5537
Scan resolution 25 µm
Laser low
PMT sensitivity 100

Annex to
Certificate BAM/ZBF/002/18
of 2018-02-12