**SMITHS DETECTION** Technical Information

# smiths

## HI-SCAN 180180-300kV

### HEIMANN X-RAY INSPECTION SYSTEM



#### Feature Highlights

- Universal X-ray system for bulk items
- Excellent image presentation (optimal X-ray geometry)
- Outstanding image quality with new HiTraX electronics
- New HI-MAT <sup>Plus</sup> technology for better material distinction
- Typical penetration 60 mm of steel
- Large range of applications

The HI-SCAN 180180-300kV is specially designed to meet the needs and applications of airports, customs facilities, transportation operations, carriers, parcel services or wherever high security and total screening is required.

It is a compact medium energy (300 kV) X-ray cargo inspection system with tunnel dimensions of 1800 mm (71") width and 1800 mm (71") height. It permits the inspection of pallets and LD-3 airfreight containers.

With an installation base of more than 25,000 X-ray security units distributed throughout 150 countries in all continents and a worldwide customer service network Smiths Heimann is the unequalled world leader in supplying X-ray security systems.

Operator training courses offered by Smiths Heimann have an excellent reputation all over the world and are carried out individually for each customer.

As a leading supplier of X-ray inspection systems in the world Smiths Heimann provides an efficient, global service network working fast and reliably.

#### Technical Data HI-SCAN 180180-300kV

1810 [H] [mm] • 71.3" [W] × 71.3" [H]         1700 [H] [mm] • 70.4" [W] × 66.9" [H]         0 loler conveyor [option: modular plastic belt conveyor]         0 mm [12"]         4 [m/s]         700 [bs], other loads [e. g. 2000 kg or more] are available on cust- irrement         12 AWG [0.2 mm] • typical: 34 AWG [0.16 mm]         15 mm • typical: 60 mm         .2 µSV [0.12 mrem] • with HI-MAT: 2.5 µSV (0.25 mrem]         4 µ to ISO 1600 (33 DIN]         varm-up procedure required         • 1 mA • hermetically sealed oil bath         4/ 24 bit         0², OS, HIGH         200°, SS, HIGH         200°, SS, HIGH         201°, SS, Plore, IMS [image management system], Xport, Media Bay
oller conveyor (option: modular plastic belt conveyor) 0 mm (12°) 4 [m/s] 5 mm (12°) 4 [m/s] 10 lbs],other loads (e. g. 2000 kg or more) are available on cust- irrement 12 AWG [0.2 mm] • typical: 34 AWG [0.16 mm] 55 mm • typical: 60 mm .2 µSV [0.12 mrem] • with HI-MAT: 2.5 µSV [0.25 mrem] 4 µ to ISO 1600 [33 DIN] varm-up procedure required • 1 mA • hermetically sealed oil bath 1 mA • hermetically sealed oil bath 4 / 24 bit 0°, 0S, HIGH 2000: stepless enlargement up to 16-times nonitor, emission meets MPR II and TCO 99 standards oustic), display of operating mode, REVIEW-feature [to recall pre- ble image areas], zoom overview, free programmable keys, USB ie, Stepless zoom EN, XPIore, IMS (image management system), Xport, Media Bay 50 GEN, ZIP module or CD/RW module
D mm (12")4 [m/s]4 [m/s]4 [m/s]4 [m/s]5 more typical: 34 AWG (0.16 mm)12 AWG (0.2 mm) • typical: 34 AWG (0.16 mm)15 mm • typical: 60 mm22 Jysv (0.12 mrem) • with HI-MAT: 2.5 μSv (0.25 mrem)4 up to ISO 1600 (33 DIN)varm-up procedure required• 1 mA • hermetically sealed oil bath4 (24 bit0², 0S, HIGH20, 0S, 10, 0S20, 0S, 11, 0S21
4 [m/s]       T: +49 [0]611 9412-0         700 lbs],other loads (e. g. 2000 kg or more) are available on cust- iirement       T: +49 [0]611 9412-229         700 lbs],other loads (e. g. 2000 kg or more) are available on cust- iirement       T: +49 [0]611 9412-0         72 AWG [0.2 mm] • typical: 34 AWG [0.16 mm]       T: +49 [0]611 9412-229         75 mm • typical: 60 mm       Simm • typical: 50 mm         .2 µSv [0.12 mrem] • with HI-MAT: 2.5 µSv [0.25 mrem]       Gitter and the second se
<ul> <li>F: +49 (0)611 9412-229 mail.germany@smiths-heimann.com</li> <li>F: +49 (0)611 9412-229 mail.germany@smiths-heimann.com</li> <li>F: +49 (0)611 9412-229 mail.germany@smiths-heimann.com</li> <li>France</li> <li>Smm • typical: 60 mm</li> <li>.2 µSv (0.12 mrem) • with HI-MAT: 2.5 µSv (0.25 mrem)</li> <li>d up to ISO 1600 (33 DIN)</li> <li>varm-up procedure required</li> <li>• 1 mA • hermetically sealed oil bath</li> <li>• 1 mA • 10 1923 294400</li> <li>• 1 973 830-2100</li> <li>• 1 973 830-21</li></ul>
700 lbs), other loads (e. g. 2000 kg or more) are available on cust- iirementmail.germany@smiths-heimann.com12 AWG (0.2 mm) • typical: 34 AWG (0.16 mm)France15 mm • typical: 60 mmSmiths Heimann S.A.S2 µSv (0.12 mrem) • with HI-MAT: 2.5 µSv (0.25 mrem)36, rue Charles Heller14 µt ol ISO 1600 (33 DIN)Yuram-up procedure requiredFrance• 1 mA • hermetically sealed oil bathWKIdetector lineVK4 / 24 bitW0°, OS, HIGHWatford2000, S, HIGHWP II and TCO 99 standards16 dte/time, luggage counter, user id-number, luggage marking oustic), display of operating mode, REVIEW-feature (to recall pre- ble image areas), zoom overview, free programmable keys, USB re, stepless zoomSmiths Chectoin Montréal Inc. 950 Bergar, Laval (Quebec) Canada H7L 5A1
Not DSJ, other toads (e. g. 2000 kg or more) are available on cust- irrement       http://www.smiths-heimann.com         2 AWG (0.2 mm) • typical: 34 AWG (0.16 mm)       site         15 mm • typical: 60 mm       .2 µSv (0.12 mrem) • with HI-MAT: 2.5 µSv (0.25 mrem)       site         1 up to ISO 1600 (33 DIN)       warm-up procedure required       France         5 mm • typical: 34 AWG (0.16 mm)       Site       Site         1 up to ISO 1600 (33 DIN)       mail.france@smiths-heimann.com         9 varm-up procedure required       T: +33 (011 55 53 55 55         F: +33 (011 46 80 34 99         • 1 mA • hermetically sealed oil bath       WK         Metector line       WK         4 / 24 bit       O², OS, HIGH         0², OS, HIGH       Signe counter, user id-number, luggage marking         nonitor, emission meets MPR II and TCO 99 standards       WSA         f date/time, luggage counter, user id-number, luggage marking       Simiths Detection Inc.         oustic), display of operating mode, REVIEW-feature (to recall pre- ble image areas), zoom overview, free programmable keys, USB       Sinths Detection Montréal Inc.         50 GBJ, ZIP module or CD/RW module       Sport, Media Bay       Sinths Detection Montréal Inc.
Irrement 12 AWG (0.2 mm) • typical: 34 AWG (0.16 mm) 15 mm • typical: 60 mm 1.2 µSv (0.12 mrem) • with HI-MAT: 2.5 µSv (0.25 mrem) 4 up to ISO 1600 (33 DIN) varm-up procedure required • 1 mA • hermetically sealed oil bath Ietector line 4 / 24 bit 0 <sup>2</sup> , 0S, HIGH zoom: stepless enlargement up to 16-times nonitor, emission meets MPR II and TCO 99 standards of date/time, luggage counter, user id-number, luggage marking oustic), display of operating mode, REVIEW-feature (to recall pre- ble image areas), zoom overview, free programmable keys, USB i.e, stepless zoom 50 GB), ZIP module or CD/RW module
55 mm • typical: 60 mmSmiths Heimann S.A.S2 μSv [0.12 mrem] • with HI-MAT: 2.5 μSv [0.25 mrem]36, rue Charles Heller4 up to ISO 1600 [33 DIN]94400 Vitry sur Seinevarm-up procedure required7+33 [0]1 55 53 55 55F: +33 [0]1 46 80 34 99mail.france@smiths-heimann.com• 1 mA • hermetically sealed oil bathLetector line4 / 24 bit0², 0S, HIGH20, 0S, HIGH20, orm: stepless enlargement up to 16-timesnonitor, emission meets MPR II and TCO 99 standardsf date/time, luggage counter, user id-number, luggage markingoustic), display of operating mode, REVIEW-feature (to recall pre-ble image areas], zoom overview, free programmable keys, USBze, stepless zoomEN, XPIore, IMS (image management system), Xport, Media Bay50 GB), ZIP module or CD/RW module
<ul> <li>1.2 μSv (0.12 mrem) • with HI-MAT: 2.5 μSv (0.25 mrem)</li> <li>36, rue Charles Heller</li> <li>94400 Vitry sur Seine</li> <li>T: +33 (0)1 55 53 55 55</li> <li>F: +33 (0)1 46 80 34 99</li> <li>mail.france@smiths-heimann.com</li> <li>• 1 mA • hermetically sealed oil bath</li> <li>WK</li> <li>Smiths Detection International UK</li> <li>459 Park Avenue</li> <li>Bushey, Watford</li> <li>Herts WD23 2BW</li> <li>T: +44 (0) 1923 294400</li> <li>F: +43 (0) 1923 294401</li> <li>mail.uk@smiths-heimann.com</li> <li>USA</li> <li>Smiths Detection Inc.</li> <li>30 Hook Mountain Road</li> <li>PO Box 410</li> <li>Pine Brook, NJ 07058</li> <li>T: +1 973 830-2100</li> <li>F: +1 973 830-2200</li> <li>mail.usa@smiths-heimann.com</li> <li>EN, XPIore, IMS (image management system), Xport, Media Bay</li> <li>50 GB), ZIP module or CD/RW module</li> </ul>
<ul> <li>d up to ISO 1600 (33 DIN)</li> <li>varm-up procedure required</li> <li>1 mA • hermetically sealed oil bath</li> <li>• 1 mA • hermetically sealed oil bath</li> <li>• 1 mA • hermetically sealed oil bath</li> <li>UK</li> <li>Smiths Detection International UK 459 Park Avenue Bushey, Watford Herts WD23 2BW</li> <li>t: +44 [0] 1923 294400</li> <li>F: +44 [0] 1923 294401</li> <li>mail.uk@smiths-heimann.com</li> <li>USA</li> <li>Smiths Detection Inc.</li> <li>30 Hook Mountain Road PO Box 410</li> <li>Pine Brook, NJ 07058</li> <li>t: +1 973 830-2100</li> <li>F: +1 973 830-2100</li> <li>F: +1 973 830-2200</li> <li>mail.usa@smiths-heimann.com</li> <li>Canada</li> <li>Smiths Detection Montréal Inc.</li> <li>950 Bergar, Laval (Quebec)</li> <li>Canada H7L 5A1</li> </ul>
<ul> <li>the procedure required</li> <li>T: +33 (0)1 55 53 55 55</li> <li>F: +33 (0)1 46 80 34 99</li> <li>mail.france@smiths-heimann.com</li> <li>1 mA • hermetically sealed oil bath</li> <li>WK</li> <li>Smiths Detection International UK 459 Park Avenue</li> <li>Bushey, Watford</li> <li>Herts WD23 2BW</li> <li>T: +44 (0) 1923 294400</li> <li>F: +44 (0) 1923 294401</li> <li>F: +1473 830-2100</li> <li>F: +1 973 830-2100</li> <li>F: +1 973 830-2100</li> <li>F: +1 973 830-2200</li> <li>mail.usa@smiths-heimann.com</li> </ul>
<ul> <li>A mail france@smiths-heimann.com</li> <li>1 mA • hermetically sealed oil bath</li> <li>4 mail.france@smiths-heimann.com</li> <li>WK</li> <li>Smiths Detection International UK</li> <li>459 Park Avenue</li> <li>Bushey, Watford</li> <li>Herts WD23 2BW</li> <li>1: +44 (0) 1923 294400</li> <li>F: +44 (0) 1923 294401</li> <li>F: +1973 830-2100</li> <li>F: +1 973 830-2100</li> <li>F: +1 973 830-2200</li> <li>mail.usa@smiths-heimann.com</li> </ul> On the Brook, NJ 07058 T: +1 973 830-2200 T: +1 973 830-2200 Time Brook, NJ 07058 T: +1 973 830-2200 Time Brook, NJ 000 E: A type
<ul> <li>• 1 mA • hermetically sealed oil bath</li> <li>• 1 mai.Lfrance@smiths-heimann.com</li> <li>• 1 973 830-2200</li> <li< td=""></li<></ul>
<ul> <li>1 mA • hermetically sealed oil bath</li> <li>1 mA • hermetically sealed oil bath</li> <li>W Smiths Detection International UK 459 Park Avenue Bushey, Watford Herts WD23 2BW T: +44 [0] 1923 294400 F: +44 [0] 1923 294401 mail.uk@smiths-heimann.com</li> <li>2 OS, HIGH zoom: stepless enlargement up to 16-times nonitor, emission meets MPR II and TCO 99 standards</li> <li>Gate/time, luggage counter, user id-number, luggage marking oustic), display of operating mode, REVIEW-feature [to recall pre- ble image areas], zoom overview, free programmable keys, USB re, stepless zoom</li> <li>5 OGB), ZIP module or CD/RW module</li> </ul>
Smiths Detection International UKdetector line4 / 24 bit02, 05, HIGH202, 05, HIGH202, 05, HIGH202, 05, HIGH203, 05, HIGH203, 05, HIGH204, 01, 123, 294401124, 124, 124, 124, 124, 124, 124, 124,
459 Park Avenue Bushey, Watford Herts WD23 2BW T: +44 (0) 1923 294400 F: +44 (0) 1923 294401 maiLuk@smiths-heimann.com4 / 24 bit 0², 0S, HIGH zoom: stepless enlargement up to 16-times nonitor, emission meets MPR II and TCO 99 standardsUSA Smiths Detection Inc. 30 Hook Mountain Road P0 Box 410 Pine Brook, NJ 07058 T: +1 973 830-2200 maiLus@agmiths-heimann.comf date/time, luggage counter, user id-number, luggage marking oustic), display of operating mode, REVIEW-feature (to recall pre- ble image areas), zoom overview, free programmable keys, USB re, stepless zoom Sto GB), ZIP module or CD/RW moduleSmiths Detection Montréal Inc. 950 Bergar, Laval (Quebec) Canada H7L 5A1
Bushey, Watfordletector lineHerts WD23 2BW4 / 24 bitT: +44 [0] 1923 2944000², 0S, HIGHF: +44 [0] 1923 294401zoom: stepless enlargement up to 16-timesmail.ukdsmiths-heimann.comnonitor, emission meets MPR II and TCO 99 standardsUSAf date/time, luggage counter, user id-number, luggage markingSmiths Detection Inc.f date/time, luggage counter, user id-number, luggage markingT: +1 973 830-2200f date/time, luggage counter, user id-number, luggage markingF: +1 973 830-2200f date/time, luggage areas], zoom overview, free programmable keys, USBCanadase, stepless zoomSmiths Detection Montréal Inc.SO GB), ZIP module or CD/RW moduleCanada H7L 5A1
Hetts WD23 2BW         4 / 24 bit         0 <sup>2</sup> , 05, HIGH         zoom: stepless enlargement up to 16-times         nonitor, emission meets MPR II and TCO 99 standards         6         6         6         6         7         6         7         7         8         9
4 / 24 bit       T: +44 [0] 1923 294400         0 <sup>2</sup> , 05, HIGH       mail.uk@smiths-heimann.com         zoom: stepless enlargement up to 16-times       mail.uk@smiths-heimann.com         nonitor, emission meets MPR II and TCO 99 standards       USA         f date/time, luggage counter, user id-number, luggage marking       30 Hook Mountain Road         oustic), display of operating mode, REVIEW-feature [to recall pre-ble image areas], zoom overview, free programmable keys, USB       T: +1 973 830-2200         se, stepless zoom       Smiths Detection Montréal Inc.       950 Bergar, Laval [Quebec]         So GB), ZIP module or CD/RW module       Canada H7L 5A1       Smiths Detection Montréal Inc.
4 / 24 bit0², OS, HIGHzoom: stepless enlargement up to 16-timesnonitor, emission meets MPR II and TCO 99 standards60/21/2 <t< td=""></t<>
4 / 24 bit       mail.uk@smiths-heimann.com         0 <sup>2</sup> , 0S, HIGH       USA         zoom: stepless enlargement up to 16-times       Smiths Detection Inc.         nonitor, emission meets MPR II and TCO 99 standards       Smiths Detection Inc.         if date/time, luggage counter, user id-number, luggage marking       T: +1 973 830-2200         f date/time, luggage counter, user id-number, luggage marking       F: +1 973 830-2200         ble image areas), zoom overview, free programmable keys, USB       Smiths Detection Montréal Inc.         se, stepless zoom       Smiths Detection Montréal Inc.         SO GB), ZIP module or CD/RW module       Canada H7L 5A1
<ul> <li>4 / Z4 bit</li> <li>O<sup>2</sup>, OS, HIGH</li> <li>zoom: stepless enlargement up to 16-times</li> <li>nonitor, emission meets MPR II and TCO 99 standards</li> <li>Gate/time, luggage counter, user id-number, luggage marking</li> <li>oustic), display of operating mode, REVIEW-feature (to recall preble image areas), zoom overview, free programmable keys, USB</li> <li>se, stepless zoom</li> <li>SEN, XPIore, IMS (image management system), Xport, Media Bay</li> <li>50 GB), ZIP module or CD/RW module</li> </ul>
<ul> <li>zoom: stepless enlargement up to 16-times nonitor, emission meets MPR II and TCO 99 standards</li> <li>f date/time, luggage counter, user id-number, luggage marking oustic), display of operating mode, REVIEW-feature (to recall pre- ble image areas), zoom overview, free programmable keys, USB re, stepless zoom</li> <li>EN, XPIore, IMS (image management system), Xport, Media Bay 50 GB), ZIP module or CD/RW module</li> <li>Smiths Detection Inc. 30 Hook Mountain Road PO Box 410 Pine Brook, NJ 07058 T: +1 973 830-2100 F: +1 973 830-2200 maiLusal@smiths-heimann.com</li> <li>Canada Smiths Detection Montréal Inc. 950 Bergar, Laval (Quebec) Canada H7L 5A1</li> </ul>
<ul> <li>zoom: stepless enlargement up to 16-times nonitor, emission meets MPR II and TCO 99 standards</li> <li>f date/time, luggage counter, user id-number, luggage marking oustic), display of operating mode, REVIEW-feature (to recall pre- ble image areas), zoom overview, free programmable keys, USB re, stepless zoom</li> <li>EN, XPIore, IMS (image management system), Xport, Media Bay 50 GB), ZIP module or CD/RW module</li> <li>Smiths Detection Inc. 30 Hook Mountain Road PO Box 410 Pine Brook, NJ 07058 T: +1 973 830-2100 F: +1 973 830-2200 maiLusal@smiths-heimann.com</li> <li>Canada Smiths Detection Montréal Inc. 950 Bergar, Laval (Quebec) Canada H7L 5A1</li> </ul>
nonitor, emission meets MPR II and TCO 99 standards 10 Hook Mountain Road PO Box 410 Pine Brook, NJ 07058 T: +1 973 830-2100 F: +1 973 830-2200 mail.usal@smiths-heimann.com F: +1 973 830-2200 mail.usal@smiths-heimann.com Canada Smiths Detection Montréal Inc. 950 Bergar, Laval (Quebec) 50 GB), ZIP module or CD/RW module
Fine Brook, NJ 07058 T: +1 973 830-2100 F: +1 973 830-2200 mail.usa@smiths-heimann.com ble image areas), zoom overview, free programmable keys, USB se, stepless zoom EN, XPlore, IMS (image management system), Xport, Media Bay 50 GB), ZIP module or CD/RW module
f date/time, luggage counter, user id-number, luggage marking oustic), display of operating mode, REVIEW-feature (to recall preble image areas), zoom overview, free programmable keys, USB re, stepless zoom serview, free programmable keys, USB re, stepless zoom serview, IMS (image management system), Xport, Media Bay 50 GB), ZIP module or CD/RW module       T: +1 973 830-2100 F: +1 973 830-2200 mail.usa@smiths-heimann.com         Canada       Smiths Detection Montréal Inc.       Smiths Detection Montréal Inc.         50 GB), ZIP module or CD/RW module       Canada H7L 5A1       Canada H7L 5A1
f date/time, luggage counter, user id-number, luggage marking oustic), display of operating mode, REVIEW-feature (to recall pre- ble image areas), zoom overview, free programmable keys, USB re, stepless zoom EN, XPlore, IMS (image management system), Xport, Media Bay 50 GB), ZIP module or CD/RW module
r date/time, tuggage counter, user la-humber, tuggage marking oustic), display of operating mode, REVIEW-feature (to recall pre- ble image areas), zoom overview, free programmable keys, USB se, stepless zoom EN, XPIore, IMS (image management system), Xport, Media Bay 50 GB), ZIP module or CD/RW module mail.usa@smiths-heimann.com Canada Smiths Detection Montréal Inc. 950 Bergar, Laval (Quebec) Canada H7L 5A1
oustic), display of operating mode, REVIEW-feature (to recall pre- ble image areas), zoom overview, free programmable keys, USB ce, stepless zoom EN, XPlore, IMS (image management system), Xport, Media Bay 50 GB), ZIP module or CD/RW module
re, stepless zoom EN, XPlore, IMS (image management system), Xport, Media Bay 50 GB), ZIP module or CD/RW module
re, stepless zoom EN, XPlore, IMS (image management system), Xport, Media Bay 50 GB), ZIP module or CD/RW module So GB), ZIP module or CD/RW module
EN, XPlore, IMS (image management system), Xport, Media Bay 50 GB), ZIP module or CD/RW module Canada H7L 5A1
50 GB), ZIP module or CD/RW module Canada H7L 5A1
T: +1 (450) 967-0010
F: +1 (450) 967-7444
mail.canada@smiths-heimann.com
pplicable laws and regulations with respect to X-ray emitting Singapore
Smiths Detection Asia Pacific Pte, Ltd
nce with guidelines 98/37/EWG, 72/23/EWG, 89/336/EWG 3 Toh Tuck Link #04-01
-20°C - +60°C German Districentre
(non-condensing) Singapore 596228
phases • 50 Hz / 60 Hz ± 3 Hz, others on request T: +65 6 466-1700
kVA (without options, with roller conveyor) F: +65 6 469-2506
kVA (without options, with modular plastic belt) mail.singapore@smiths-heimann.com
3435 (W) x 2350 (H) [mm] • approx. 6000 kg
: 135.2" (W) x 92.5" (H) • approx. 13200 lbs
Iular plastic belt conveyor: 7620 (L) [mm], 300" (L)
ruction with steel panels, mounted on roller castors
olor(s): RAL 7016 (dark gray)
<sup>4)</sup> extended temperature range on request
<sup>4)</sup> without control desk, keyboard, monitor(s) etc.
° without control desk, keyboard, monitor(s) etc.

appr. 1722 mm Output Roller optional

-60



smiths

appr. 5200 mm

appr. 6887 mm

🖣 appr. 1722 mm Input Roller optional