

Portable Industrial X-Ray Flaw Detectors

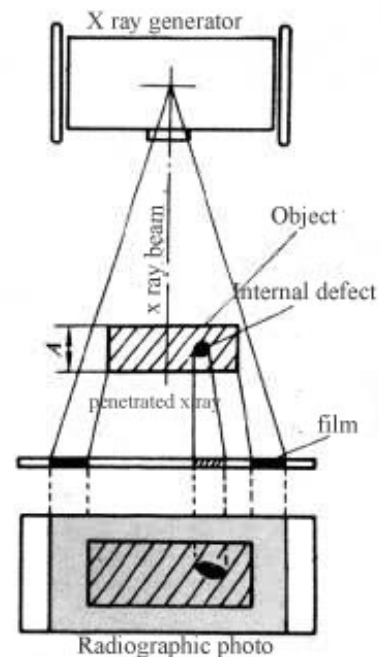
1. Name: Frequency conversion gas insulated Portable x-ray Flaw Detectors

2. Model:XXG-2005(With directional ceramic x-ray tube insert)

3. Manufacturer: Dandong Aolong Radiative Instrument Group Co., Ltd.

4. Basic Principles of X-ray flaw detector:

Radiography is widely used in industry to detect defects in the workpiece, Analysis of the causes and laws of its formation, Evaluate the impact of these defects on workpiece performance, to improve the design or process ,and improvement of product quality, reducing production costs, avoidance of malignant accidents. To use of radiation to penetrate the material has a certain ability and in the process of penetrating the material, different substances and different object structures have different degrees of attenuation of rays. So the defect to form an image on a photographic film or television screen, to determine the internal defects and integrity of the workpiece.



Working principle diagram

The principle of Ray detection (as show picture), Radiation source irradiate workpiece, X-ray film is placed on the bottom of the workpiece, because a defective material is different from a non-defective material that absorbs rays, the defect of the workpiece is developed on the film. Use this defective picture, we can determine the quality of the workpiece.

5. Main character:

- ◆ Compact x-ray generator, anode grounded, forced air cooling
- ◆ Light weight, portable, easy to operate
- ◆ delayed exposal,guarantee the safety of operator
- ◆ Anti-jamming strong which is suitable for the dynamo working together.

- ◆It can choose the expose parameter accurately by setting the press-button.
- ◆Has the delaying time function which makes the operator leave the dangerous radioactive operating room when the X-ray unit generate the X-rays.
- ◆The high voltage risen and fallen smoothly which makes the X-ray generator work effectively.
- ◆According to 1:1 ratio of work and rest automatically, the longest exposed time is 5 minutes.
- ◆The complete protect measure and the protection function when there is over KV, over mA, short mA, and over current, over temperature which avoid destroying the whole machine.
- ◆Exposing time and error code is displayed by counter.
- ◆The design of the structure is more reliable and reasonable and operate easily.
- ◆Tube Voltage range is broad, used to test any workpiece with different material and thinckness;
- ◆The enamel-insulated wire of Coil is imported, quality is trustiness,life is longer;

6. Main configuration:

◆Directional ceramic X-ray tube insert	1Pc	200KV, 5mA	Aolong
◆Generator (included above tube)	1Pc		Aolong
◆Interconnection cable with two plugs	1Pc	25 Meters	Aolong
◆Controller	1Pc	T4777 model	Aolong
◆Power supply cable with one plug	1Pc	10 Meters	Aolong
◆Grounding cable	1Pc	5 Meters	Aolong
◆Accessories bag	1set		Aolong

(Including: alarm lamp, 1 Pcs; lead letter, 1 box; dark bag, 5 Pcs; intensifying screen,5 Pcs; Image quality indicator,1 set; fuse,1 set;)

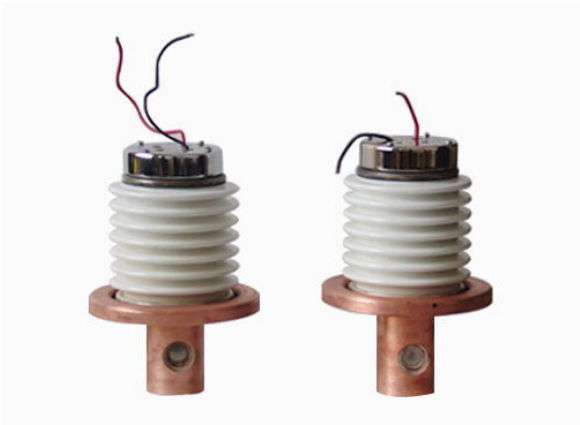
7. Main technical parameter:

- ◆Cooling mode:forced wind
- ◆Insulating Medium:SF₆ gas
- ◆Power supply:220VAC, 50Hz
- ◆Input power:2.0KW
- ◆Output voltage range:100~200KV, Continuously adjustable
- ◆Tube current: 5mA
- ◆Focus spot size:2.0×2.0mm
- ◆Radiation coverage: 40+5°
- ◆Working cycle:50%(i.e work time:rest time= 1:1)
- ◆Exposal time setting:6 sec~5 min
- ◆Photography condition: Focus 600mm;
Exposal time 5 minters;
Double-face lead intensifying.
Industrial x-ray film
- ◆Sensitivity:≤1.5%
- ◆Film density: > 1.5
- ◆Penetration material : A3 steel
- ◆Max penetration thickness: 30mm
- ◆Generator size:285×285×615mm(included handle)
- ◆Controller size:365×300×165mm
- ◆Generator weight:24kg
- ◆Controller weight:11kg
- ◆Safe working pressure:0.35Mpa~0.45Mpa(20℃)
- ◆Operating temperature range:-10~35℃
- ◆Relative humidity: <85%

8. Overall unit picture



9. Main part picture



X-ray tube insert



High voltage coil

10.The main qualification certificate

Certificate of Compliance

No. 3J190703.DARTQ22
Technical Construction File no. TCF-GGC-19025-064

Certificate's Holder: Dandong Aolong Radiative Instrument Group Co., Ltd.
No.46 Fumin Street, Lingang Industrial Zone,
Dandong City, China

Certification ECM Mark:  Type Approved

Product: Industrial Portable X-Ray Equipment
Model[s]: XXG-1605, XXG-2005, XXG-2505, XXG-3005, XXG-3505, XXG-3505, XXQ-1005, XXQ-1605, XXQ-2005, XXQ-2505, XXQ-3005, XXQ-3505, XXH-1005, XXH-1605, XXH-2005, XXH-2505, XXH-3005, XXH-3505, XXGH-2005, XXGH-2505, XXGH-3005

Verification to: Standard: EN 61010-1:2010, EN 61326-1:2013
related to CE Directive(s): 2014/35/EU (Low Voltage) 2014/30/EU (Electromagnetic Compatibility)

Remark: The product(s) has been verified on a voluntary basis. The product(s) satisfies the requirements of the Certification Mark of ECM in reference to the above listed Standard(s). The above Compliance Mark can be affixed on the product(s) accordingly to the ECM regulation about its release and its use. The regulation can be found at www.anticema.it. This Certificate of Compliance can be checked for validity at www.anticema.it.

Additional information, clarification about the CE Marking:
We attest that a TCF for the CE Marking process is in place. Whereas the Manufacturer is Responsible to start the CE Marking Certification Procedure and to perform all the necessary activities, as required by the Directive before placing the CE Mark on the product(s).

Date of issue: 03 July 2019 **Expiry date:** 02 July 2024

Chief Manager:  **Deputy Manager:** 

Ente Certificazione Macchine Srl
Via Co. Italia, 243 - Loc. Capello di Senovale - 40053 Valsamoggia (BO) - ITALY
☎ +39 051 6705141 ☎ +39 051 6705156 ✉ info@entececm.it www.entececm.it

Certificate

Certificate No.: 11415Q22315R0M

This is to certify that the Quality Management System of
DANDONG AOLONG RADIATIVE INSTRUMENT GROUP CO., LTD.
Unified Social Credit Code: 9121060074434309X4
No.46 Fumin Street, Lingang Industry Zone, Dandong City, Liaoning Province
Has been audited to conform to the following Quality Management System standard
GB/T 19001-2008 idt ISO 9001:2008
This Quality Management System is valid for the
The design, manufacture and sale of the II and III king of the radiation-emitting apparatus and accessories (qualification range)

Initial issued date: Aug. 15, 2009
Date of issue: Aug. 14, 2017
Revision date: Aug. 14, 2017
Date of expiry: Aug. 13, 2020

Issued by:  **Beijing East Allreach Certification Center Co., Ltd.**

The certificate will remain valid only if the certified organization accepts surveillance audits at regular intervals and is entitled to be audited. Please paste the surveillance audit confirming mark on the designated position of the certificate. The information of this certificate is available at EACC website www.eacc.com.cn and CNCA website www.cnca.gov.cn.

EACC address: 1st Floor, No. 122 building, No. 17, Jingangguang Road, Xijiao Science & Technology Industrial Base, Tongzhou Park of Dongguan Science & Technology Zone, Tongzhou District, Dongguan 510522

Certificate

Certificate No.: 11417E42999R0M

This is to certify that the Environmental Management System of
DANDONG AOLONG RADIATIVE INSTRUMENT GROUP CO., LTD.
Unified Social Credit Code: 9121060074434309X4
No.46 Fumin Street, Lingang Industry Zone, Dandong City, Liaoning Province
Has been audited to conform to the following Environmental Management System standard
GB/T 24001-2016/ISO 14001:2015
This Environmental Management System is valid for the
The design, manufacture and sale of the II and III king of the radiation-emitting apparatus and accessories (qualification range) and related Environmental management activities of involved sites

Initial issued date: Aug. 14, 2017
Date of issue: Aug. 14, 2017
Date of expiry: Aug. 13, 2020

Issued by:  **Beijing East Allreach Certification Center Co., Ltd.**

The certificate will remain valid only if the certified organization accepts surveillance audits at regular intervals and is entitled to be audited. Please paste the surveillance audit confirming mark on the designated position of the certificate. The information of this certificate is available at EACC website www.eacc.com.cn and CNCA website www.cnca.gov.cn.

EACC address: 1st Floor, No. 122 building, No. 17, Jingangguang Road, Xijiao Science & Technology Industrial Base, Tongzhou Park of Dongguan Science & Technology Zone, Tongzhou District, Dongguan 510522

Certificate

Certificate No.: 11417S23000R0M

This is to certify that the Occupational Health and Safety Management System of
DANDONG AOLONG RADIATIVE INSTRUMENT GROUP CO., LTD.
Unified Social Credit Code: 9121060074434309X4
No.46 Fumin Street, Lingang Industry Zone, Dandong City, Liaoning Province
Has been audited to conform to the following Occupational Health and Safety Management System standard
GB/T 28001-2011 idt OHSAS 18001:2007
This Occupational Health and Safety Management System is valid for the
The design, manufacture and sale of the II and III king of the radiation-emitting apparatus and accessories (qualification range) and related Occupational health and safety management activities of involved sites

Initial issued date: Aug. 14, 2017
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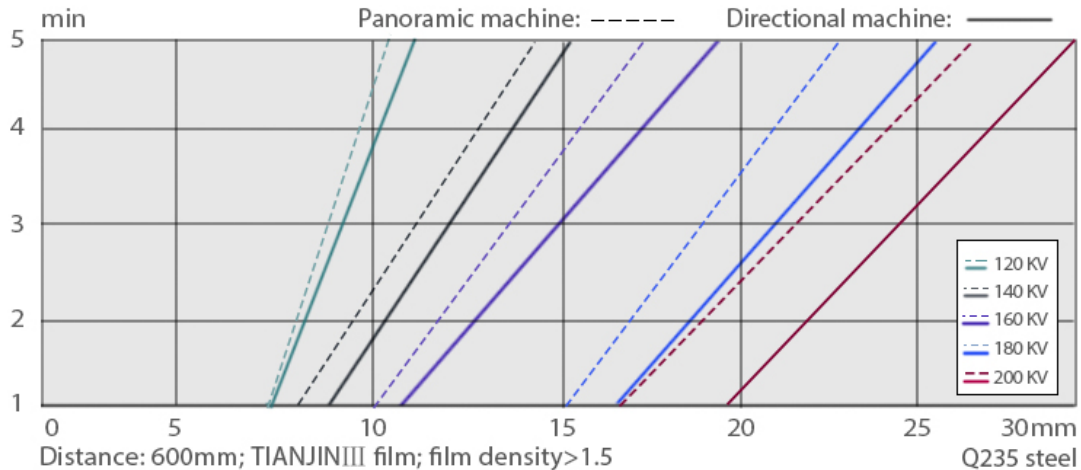
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11. Exposal chart(only for reference)

2005 Exposure chart



Condition:

Film: Industrial x-ray film (Industrial X-ray film)

Film to X-ray focus distance: 600mm

double-face lead intensifying.

Time: 5 minutes

Film density: 1.5

Sensitivity: <1.5%

----- Panoramic machine; _____ Directional machine

12. The contact information of manufacturer

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Dandong Aolong Radiative Instrument Group Co., Ltd.