Metal Detector AD-4971 Series



Capable of detecting metal contaminants in products, this system contributes to the delivery of safe products to customers.



Provides high sensitivity detection with Contributes to the delivery of safe pro





You can conduct high sensitivity detection with simple and easy operation. The optimal sensitivity setting can be set through the auto sensitivity settings.

The phase tracking function enables minimization of product phase and allows constant high sensitivity inspection.



The display utilises a high visibility touch panel color LCD with user friendly Graphic User Interface (audio guidance support function included).



Product images can be quickly uploaded to the metal detector from USB memory, making product identification and uploading fast and simple.



Products can be divided into 10 different groups, with up to 100 products able to be recorded within each group.







Protected from dust and water to IP65 standards. Hygienic design with the entire system washable.

Display examples



Normal display



Bar graph display



Lissajous display



Equipped with Modbus RTU/Modbus TCP as standard. With Modbus communication, a seamless connection can be easily achieved.

Operations such as stopping and starting inspection, collecting data and changing product can all be set from an external device.



All inspection data (csv), operation history (csv), inspection summary data (PDF) and operation check results (PDF) can be outputted to USB memory.

*USB Flash Drive not included.



Inspection results and operation check results can be outputted to a PostScript printer via Ethernet.

simple and easy operation. ducts to your customers.







Operation history

The history of configuration changes can be recorded and displayed.

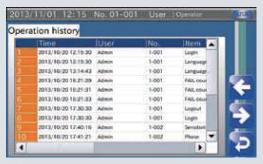
Suitable for use in HACCP programs along with the inspection history function.

Users can be registered and their scope of permitted operations controlled according to 4 management levels.

Operator
Supervisor
Quality Manager
Administrator

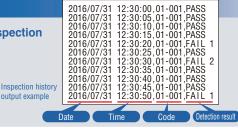
By assigning each user to the appropriate level of access, inadvertent operations can be avoided. *

* "Operator" is set as the factory default setting.



Inspection history

Inspection results, such as date, time, product codes and inspection results can be recorded to USB memory during inspection.



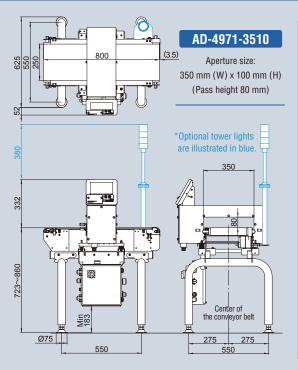
Specification

Model	AD-4971-3510	AD-4971-3517	AD-4971-3525	AD-4971-4517	AD-4971-4525
Aperture size	350(W)x100(H)mm	350(W)x170(H)mm	350(W)x250(H)mm	450(W)x170(H)mm	450(W)x250(H)mm
Pass height	80mm	150mm	230mm	150mm	230mm
Conveyor belt speed	10∼60m/min				
Carrying capacity	$3 \text{kg} (10 \sim 30 \text{m/min}) 2 \text{kg} (30 \sim 60 \text{m/min})$			6kg (10~30m/min)	3kg (30~60m/min)
Display	7inch touch panel color display				
Operation method	Touch panel (WVGA), Key switch				
Number of recorded items	1000 items including product data and image				
Communication interface	"Ethernet LAN : Modbus TCP / TCP / IP(PostScript printer) RS-485 / 232C : Modbus RTU / Serial communication USB : USB memory (for history storage, image import use)"				
External input	Non-voltage contact input 4 points				
External output	Relay output 8 points				
Dust/water resistance specifications	IP65 compliant				
Operation temperature/humidity range	$0\sim$ 40 $^{\circ}$ C / Humidity below 85%(with no condensation)				
Power supply	Single phase AC100V \sim 240V(+10%,-15%),50/60Hz,100VA				
Material		ess Steel Display : AB nolic resin, stainless ste			: Stainless steel

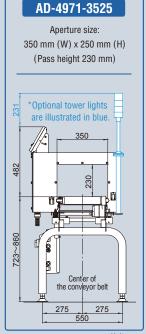
Operating precautions

- 1. Decide where in the production process to install the metal detector by assessing the risk of metal contamination.
 - For raw materials with excessive metal contaminants, install a metal detector before processing begins.
 - For products packed in aluminum foil packages, install a metal detector before the packaging process.
 - For frozen products, install a metal detector after freezing (make sure the product is frozen to the core and is below -18 degrees celsius).
- 2. Production flow of horizontally long or oblique orientation is preferable.
- 3. Keep inspected products as small as possible.
- 4. Keep product temperature constant.
- 5. Installing the metal detector in an area with little vibration is advised.
- 6. Dedicated 100-240V wiring with low noise is advised.
- 7. Make sure to ground the metal detector.
- 8. Remove vibrating or shifting metals near the sensor head.
- 9. Make sure that ground loops are not created by nearby equipment.
- 10. Please prepare a ϕ 4-7mm power cable.

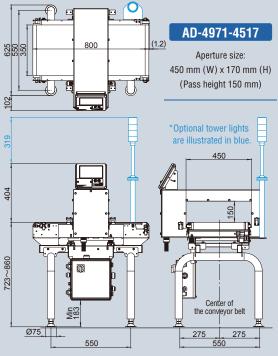
AD-4971 Series Specifications

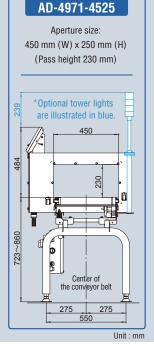


AD-4971-3517 Aperture size: 350 mm (W) x 170 mm (H) (Pass height 150 mm) *Optional tower lights are illustrated in blue. 723~860 8 Center of the conveyor belt 275 550



Unit: mm









...Clearly a Better Value

A&D Company, Limited

3-23-14 Higashi-Ikebuluro, Toshima-ku,Tokyo 170-0013 JAPAN Telephone:[81](3) 5391-6132 Fax:[81](3) 5391-1566 http://www.aandd.jp

A&D ENGINEERING, INC.1756 Automation Parkway, San Jose, CA 95131 U.S.A. Telephone:[1](408) 263-5333 Fax:[1](408) 263-0119

A&D Australasia Pty Ltd.
32 Dew Street, Thebarton, South Australia 5031 AUSTRALIA Telephone:[61](8) 8301-8100 Fax:[61](8) 8352-7409

A&D INSTRUMENTS LTD.
Unit 24/26 Blacklands Way Abingdon Business Park,
Abingdon, Oxon OX14 10Y UNITED KINGDOM
Telephone: [44](1235) 550420 Fax:[44](1235) 550485

<German Sales Office>

Hamburger Straße 30 D-22926 Ahrensburg GERMANY Telephone:[49](0) 4102 459230 Fax:[49](0) 4102 459231

A&D KOREA Limited

817, Manhattan Bldg., 33, Gukjegeumyung-ro 6-gil, Yeongdeungpo-gu, Seoul, 07331, KOREA Telephone:[82](2) 780-4101 Fax:[82](2) 782-4264

A&D RUS CO., LTD.Vereyskaya str.17, Moscow, 121357 RUSSIA
Telephone:[7] (495) 937-33-44 Fax:[7] (495) 937-55-66

A&D Instruments India Private Limited

509 Udyog Vihar Phase V Gurgaon-122 016, Haryana, INDIA Telephone:[91](124) 471-5555 Fax:[91](124) 471-5599