EZI-Check™

CHECKWEIGHER
AD-4961

IP65 compliant

Checkweighing Simplified!

CHECKWEIGHER

A&D
A&D Weighing
andweighing.com.au

Why The Unique Modular Design Maximizes Production Efficiency

Unique modular design

AD-4961 consists of four units, an infeed conveyor unit, a weighing conveyor unit, a control unit and a base unit, allowing fast and simple assembly.
In the case of system shutdown, you do not need to wait for a service engineer to respond to the issue. Just simply replace the unresponsive module by yourself, so that you can shorten system downtime and maximize production efficiency.
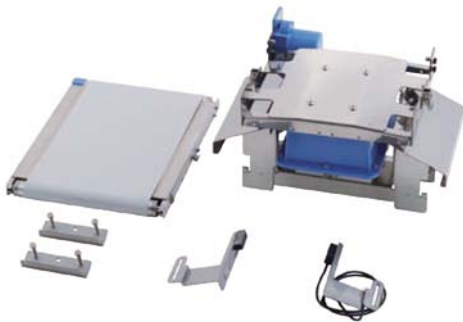
Infeed conveyor unit

Control unit

Weighing conveyor unit

Base unit

Easy maintenance

The Direct Gear Drive Mechanism allows you to replace a conveyor simply and easily.
The entire system is washable with a stainless steel construction and hygienic design.

Replacing a belt   Replacing a gear   Replacing a conveyor   Replacing a gear motor

A&D have redefined checkweighing with unparalled simplicity and best-in-class precision.

Best-in-class precision

With a newly developed digital load cell and an ultra-high speed processing module, a high precision level of 0.08g (3σ) has been realized.
With this high accuracy checkweigher, you can minimize the giveaway of materials above the specified weight and contribute to reductions in production costs.

IP65 compliant

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

7 inch color touch panel

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

Stores up to 1000 products

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

USB memory

Image import from USB

Product images can be quickly uploaded to the checkweigher from USB memory, making product identification and upload fast and simple.

Optimization of weighing cofiguration

By inputting throughput (products per minute) or belt speed (m/min), optimal weighing conditions can be automatically set.
You can weigh products precisely without inputting various settings.

Lightweight and compact design

With it's modular structure, the AD-4961 allows for rapid and simple installation or relocation.

Modbus® communication

Equipped with Modbus RTU/Modbus TCP as standard.
With Modbus communication, seamless connection can easily be achieved.
Operations such as stopping and starting the weighing process, collecting data
and changing product can all be set from an external device.

Ethernet

LCD screen   Touch panel PC   AD-4971 Metal Detector   AD-4961 Checkweigher

Various inputs / outputs

Rejector output , alarm output, metal detector input, RS-232C,
TCP/IP and USB interface are equipped as standard.
Storing data in USB memory or outputting to a printer is also possible.

Data summary

Various summary data such as histograms (frequency including defects),
X charts, R charts, total summaries, etc., are available.
You can visually confirm fluctuation of weighing results and adjust your
process accordingly.
 *For further information please refer to "histogram" and "X chart" on the next page.

The AD-4961 also has an internal memory of up to 100 sets of weighing data.
(By using USB memory the number of data records can be increased.)

Graph printing to a printer
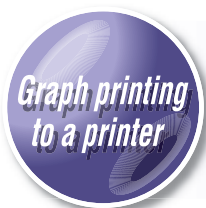
Various reports or charts can be outputted to a PostScript printer via Ethernet.
You can also save them in a pdf format to a USB memory.

Reject modules and options

Flipper type rejector
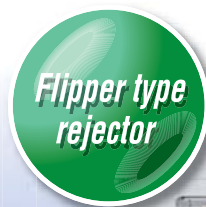
AD-4981-2057
Screening capability 120pcs/min.

Rejection

Drop Conveyor rejector

AD-4982-2035
Screening capability 150pcs/min.

*Please prepare an air compressor with a φ6mm air tube to be connected to the filter regulator of the rejector.
 Air supply: 0.5MPa, 0.1NL/time

History function

The history of configuration changes can be recorded and displayed.
Suitable for use in HACCP programs along with the weighing history function.

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

[Operator]

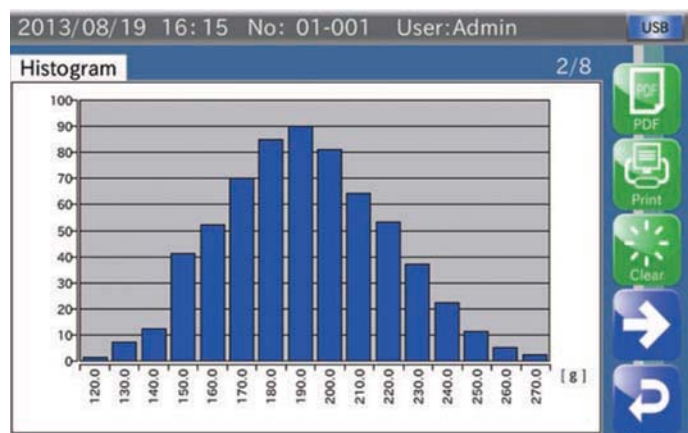[Supervisor]

[Quality Manager]

[Administrator]

By assigning each user to the appropriate level of access,
inadvertent operations can be avoided.*2
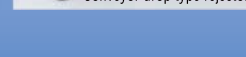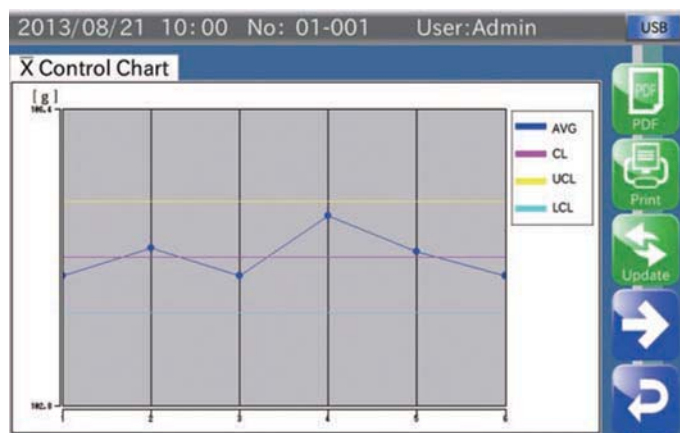
*2 "Operator" is set as the factory default setting.

Time	User Name	No.	Item	Detail
2013/8/19 13:50	Admin	1-001	Stability Time	1.000 > 2.000
2013/8/19 15:50	Admin	1-001	Login	
2013/8/19 15:51	Admin	1-001	Language	0 > 1
2013/8/19 15:58	Operator	1-001	Logout	
2013/8/19 15:59	Murata	1-001	Login	
2013/8/19 15:59	Murata	1-001	Target	57.00 > 100.00
2013/8/19 16:00	Operator	1-001	Logout	
2013/8/19 16:00	Nishimura	1-001	Login	
2013/8/19 16:00	Nishimura	1-001	Stability Wei···	10.00 > 5.00
2013/8/19 16:00	Operator	1-001	Logout	
2013/8/19 16:01	Admin	1-001	Login	

Histogram display screen

X̄ chart screen

Using display stand

Display stand

Breeze break

Tower light

Product guide

Cross plate

Flipper type rejector

Conveyor drop type rejector

Specifications

|	
Model	AD-4961-2KD-2035
Capacity	500g / 2,000g
Resolution	0.01g / 0.1g
Accuracy(3σ)[*1]	0.08g/0.18g
Throughput	320pcs/min
Conveyor belt width	200mm
Conveyor length	350mm
Transport medium	Urethane belt
Conveyor belt speed	15～120m/min
Max. product dimensions	Length : 30～300mm
	Width : 200mm
Weighing sensor	Strain gauge load cell
Display	7inch touch panel color display
Operation method	Touch panel (WVGA), Key switch
Number of recorded items	1,000 items (10 groups x 100 items)
Communication functions	Modbus TCP / Modbus RTU / RS-232C(metal detector) /
	TCP/IP(PostScript printer) /
	USB(for USB memory, data storage, image import use) *3
External input	Non-voltage contact input 4points
External output	Relay output 8points
Dust/water resistance specifications	IP65 compliant
Operation temperature/humidity range	−5 ～ 40℃ / humidity below 85%(with no condensation)
Power supply	Single phase AC100V-240V(+10% / -15%), 50/60Hz 180VA
External dimensions *2	Width : 700mm / Depth: 600mm / Height: 750-1050mm
Weight *2	Approx. 35kg
Material	Display : ABS resin
	Conveyor unit : Aluminum (alumite coating) and ABS resin
	Control box : Stainless steel
	Base unit : Stainless steel

*1 Depends on the shape and the condition of the product and installation environment.
*2 Values for external dimensions and weight are for the standard condition without rejector.
*3 USB memory must be formatted to FAT32.

AD-4961 External diagram
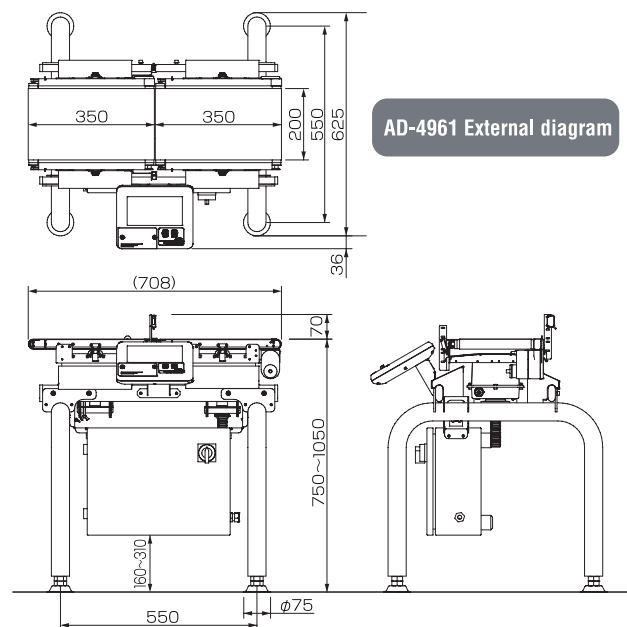
When the display stand is used, the display is attached on the opposite side from the standard display position. The display will be at a height approximately 310mm above the conveyor belt.

Flipper type rejector

Drop Conveyor type rejector
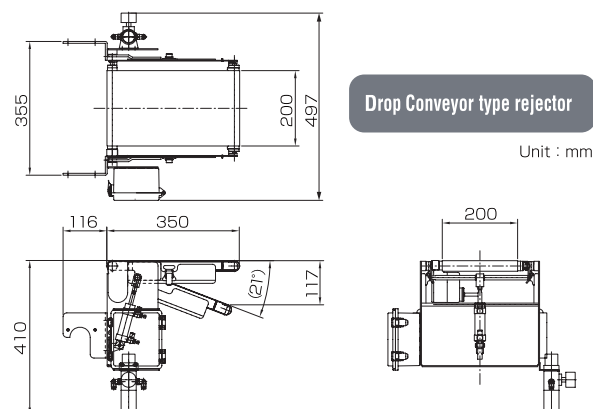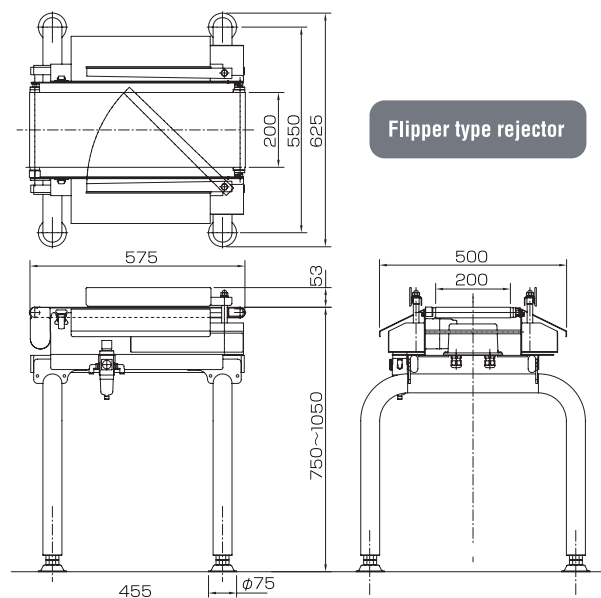
Unit : mm

Checkweighing Simplified

Bringing innovation to inspection

AND EZI-Check™

*AD4961-ADCC-01-CR1-13802