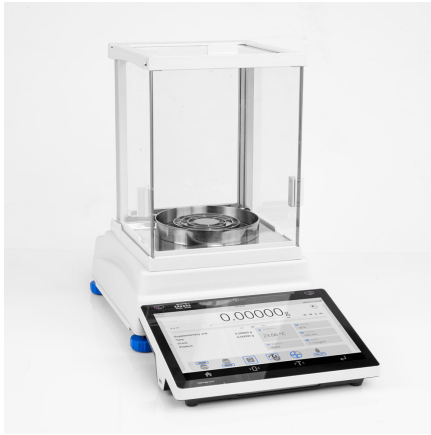


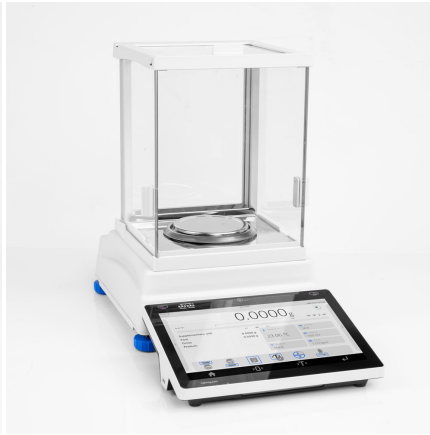


AS 62.5Y Analytical Balance, AS 220.5Y Analytical Balance, AS 160.5Y Analytical Balance, AS 82/220.5Y Analytical Balance, AS 60/220.5Y Analytical Balance, AS 3100.5Y Analytical Balance, AS 120.5Y Analytical Balance, AS 310.5Y Analytical Balance, AS 520.5Y Analytical Balance

More information on the website  
[radwag.com/en/info,w1,NC3](http://radwag.com/en/info,w1,NC3)



AS 62.5Y Analytical Balance  
 AS 82/220.5Y Analytical Balance  
 AS 60/220.5Y Analytical Balance  
 AS 120.5Y Analytical Balance



AS 220.5Y Analytical Balance  
 AS 160.5Y Analytical Balance  
 AS 3100.5Y Analytical Balance  
 AS 310.5Y Analytical Balance  
 AS 520.5Y Analytical Balance

The drawings, photos and graphics used are for illustrative purposes only.

## Functions



Autotest



Dosing



Percent Weighing



Parts counting



Peak hold



Formulation



Newton unit measurement



Statistics



Checkweighing



IR sensors



GLP Procedures



Animal weighing



Pipettes Calibration



Air density correction



Density determination



Differential weighing



Ambient conditions monitoring



Statistical Quality Control



Packaged Goods Control



ALIBI Memory



Wi-Fi

# Datasheet

	AS 60/220.5Y Analytical Balance	AS 62.5Y Analytical Balance	AS 82/220.5Y Analytical Balance
<b>Metrological parameters</b>			
Maximum capacity [Max]	60 / 220 g	62 g	82 / 220 g
Minimum load	-	-	-
Readability [d]	0,01 / 0,1 mg	0,01 mg	0,01 / 0,1 mg
Verification unit [e]	-	-	-
Tare range	-220 g	-62 g	-220 g
Standard repeatability [5% Max]	0,01 mg	0,01 mg	0,01 mg
Standard repeatability [Max]	0,06 mg	0,017 mg	0,06 mg
Standard minimum weight (USP)	20 mg	20 mg	20 mg
Standard minimum weight (U=1%, k=2)	2 mg	2 mg	2 mg
Permissible repeatability [5% Max]	0,02 mg	0,02 mg	0,02 mg
Permissible repeatability [Max]	0,1 mg	0,03 mg	0,1 mg
Linearity	±0,05/0,2 mg	±0,05 mg	±0,05/0,2 mg
Stabilization time	2 s	3 s	2 s
Adjustment	internal (automatic)	internal (automatic)	internal (automatic)
OIML Class	-	-	-
<b>Physical parameters</b>			
Leveling system	semi-automatic - LevelSENSING	semi-automatic - LevelSENSING	semi-automatic - LevelSENSING
Display	10" touchscreen	10" touchscreen	10" touchscreen
Weighing chamber doors	manual	manual	manual
Delivery components	Balance, weighing pan, weighing pan shield, centring ring, bottom cover, power supply, fabric dust cover.	Balance, weighing pan, weighing pan shield, centring ring, bottom cover, power supply, fabric dust cover.	Balance, weighing pan, weighing pan shield, centring ring, bottom cover, power supply, fabric dust cover.
Weighing chamber dimensions	190×190×227 mm	190×190×222 mm	190×190×227 mm
Weighing pan dimensions	ø90 + ø85 (option) mm	ø90 + ø85 (option) mm	ø90 + ø85 (option) mm
Packaging dimensions	545×455×575 mm	190×190×227 mm	545×455×575 mm
Net weight	7,14 kg	7,14 kg	7,14 kg
Gross weight	10,5 kg	10,5 kg	10,5 kg
<b>Features of use</b>			
Database capacity	7	7	7
Touch-free operation	2 IR Sensors	2 IR Sensors	2 IR Sensors
<b>Communication interface</b>			
<b>Communication interface</b>			
<b>Electrical parameters</b>			
Power supply	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max
Power consumption max.	4 W	4 W	4 W
<b>Environmental conditions</b>			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Ambient conditions monitoring	THBR 2.0 System, THBR BOX, THB P, THB W, THB S	THBR 2.0 System, THBR BOX, THB P, THB W, THB S	THBR 2.0 System, THBR BOX, THB P, THB W, THB S

Repeatability is expressed as a standard deviation from 10 weighing cycles. Stabilization time depends on the ambient conditions and the dynamics of weighing pan loading; specified for FAST profile. 1 Barcode scanners, available as weighing instrument accessory, communicate with the instrument via RS232 interface exclusively.

# Datasheet

	AS 120.5Y Analytical Balance	AS 160.5Y Analytical Balance	AS 220.5Y Analytical Balance
<b>Metrological parameters</b>			
Maximum capacity [Max]	120 g	160 g	220 g
Minimum load	-	-	-
Readability [d]	0,01 mg	0,1 mg	0,1 mg
Verification unit [e]	-	-	-
Tare range	-120 g	-160 g	-220 g
Standard repeatability [5% Max]	0,01 mg	0,06 mg	0,06 mg
Standard repeatability [Max]	0,025 mg	0,07 mg	0,07 mg
Standard minimum weight (USP)	20 mg	120 mg	120 mg
Standard minimum weight (U=1%, k=2)	2 mg	12 mg	12 mg
Permissible repeatability [5% Max]	0,02 mg	0,09 mg	0,09 mg
Permissible repeatability [Max]	0,04 mg	0,1 mg	0,1 mg
Linearity	±0,07 mg	±0,2 mg	±0,2 mg
Stabilization time	2 s	2 s	2 s
Adjustment	internal (automatic)	internal (automatic)	internal (automatic)
OIML Class	-	-	-
<b>Physical parameters</b>			
Leveling system	semi-automatic - LevelSENSING	semi-automatic - LevelSENSING	semi-automatic - LevelSENSING
Display	10" touchscreen	10" touchscreen	10" touchscreen
Weighing chamber doors	manual	manual	manual
Delivery components	Balance, weighing pan, weighing pan shield, centring ring, bottom cover, power supply, fabric dust cover.	Balance, weighing pan, weighing pan shield, centring ring, bottom cover, power supply.	Balance, weighing pan, weighing pan shield, bottom cover, power supply.
Weighing chamber dimensions	190×190×227 mm	190×190×227 mm	190×190×227 mm
Weighing pan dimensions	ø90 + ø85 (option) mm	ø100 mm	ø100 mm
Packaging dimensions	545×455×575 mm	490×400×520 mm	490×400×520 mm
Net weight	7,14 kg	7,3 kg	7,06 kg
Gross weight	10,5 kg	9,3 kg	8,5 kg
<b>Features of use</b>			
Database capacity	7	7	7
Touch-free operation	2 IR Sensors	2 IR Sensors	2 IR Sensors
<b>Communication interface</b>			
Communication interface	–	–	–
<b>Electrical parameters</b>			
Power supply	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max
Power consumption max.	4 W	4 W	4 W
<b>Environmental conditions</b>			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Ambient conditions monitoring	THBR 2.0 System, THBR BOX, THB P, THB W, THB S	THBR 2.0 System, THBR BOX, THB P, THB W, THB S	THBR 2.0 System, THBR BOX, THB P, THB W, THB S

Repeatability is expressed as a standard deviation from 10 weighing cycles. Stabilization time depends on the ambient conditions and the dynamics of weighing pan loading; specified for FAST profile. 1 Barcode scanners, available as weighing instrument accessory, communicate with the instrument via RS232 interface exclusively.

# Datasheet

	AS 310.5Y Analytical Balance	AS 520.5Y Analytical Balance	AS 3100.5Y Analytical Balance
<b>Metrological parameters</b>			
Maximum capacity [Max]	310 g	520 g	3100 g
Minimum load	-	-	-
Readability [d]	0,1 mg	0,1 mg	1 mg
Verification unit [e]	-	-	-
Tare range	-310 g	-520 g	-3100 g
Standard repeatability [5% Max]	0,07 mg	0,07 mg	0,5 mg
Standard repeatability [Max]	0,1 mg	0,2 mg	0,6 mg
Standard minimum weight (USP)	140 mg	140 mg	1000 mg
Standard minimum weight (U=1%, k=2)	14 mg	14 mg	100 mg
Permissible repeatability [5% Max]	0,12 mg	0,12 mg	0,8 mg
Permissible repeatability [Max]	0,15 mg	0,4 mg	1 mg
Linearity	±0,3 mg	±0,6 mg	±4 mg
Stabilization time	2,5 s	2,5 s	2 s
Adjustment	internal (automatic)	internal (automatic)	internal (automatic)
OIML Class	-	-	-
<b>Physical parameters</b>			
Leveling system	semi-automatic - LevelSENSING	semi-automatic - LevelSENSING	semi-automatic - LevelSENSING
Display	10" touchscreen	10" touchscreen	10" touchscreen
Weighing chamber doors	manual	manual	manual
Delivery components	Balance, weighing pan, weighing pan shield, bottom cover, power supply.	Balance, weighing pan, weighing pan shield, bottom cover, power supply.	Balance, weighing pan, weighing pan shield, centring ring, bottom cover, power supply.
Weighing chamber dimensions	190×190×227 mm	190×190×227 mm	190×190×227 mm
Weighing pan dimensions	ø100 mm	ø100 mm	ø90 mm (open-work pan)
Packaging dimensions	490×400×520 mm	490×400×520 mm	545×455×575 mm
Net weight	7,3 kg	7,3 kg	7,3 kg
Gross weight	9,3 kg	9,3 kg	9,3 kg
<b>Features of use</b>			
Database capacity	7	7	7
Touch-free operation	2 IR Sensors	2 IR Sensors	2 IR Sensors
<b>Communication interface</b>			
Communication interface	USB-A ×2, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot	-	-
<b>Electrical parameters</b>			
Power supply	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max
Power consumption max.	4 W	4 W	4 W
<b>Environmental conditions</b>			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Ambient conditions monitoring	THBR 2.0 System, THBR BOX, THB P, THB W, THB S	THBR 2.0 System, THBR BOX, THB P, THB W, THB S	THBR 2.0 System, THBR BOX, THB P, THB W, THB S

Repeatability is expressed as a standard deviation from 10 weighing cycles. Stabilization time depends on the ambient conditions and the dynamics of weighing pan loading; specified for FAST profile. 1 Barcode scanners, available as weighing instrument accessory, communicate with the instrument via RS232 interface exclusively.

\* Wi-Fi® is a registered trademark of Wi-Fi® Alliance.



## Accessories

Antivibration Tables  
Holders for laboratory flasks  
Power Adapters  
Barcode scanners  
RS 232, RS 485 cables  
Cigarette lighter receptacle power supply cables  
Density determination KIT  
Additional modules  
USB cable (scale - printer)  
Professional weighing table  
Protective cover for balances  
Holders for test tubes and filters

Workstation for Pipettes Calibration  
USB Hubs  
THBR 2.0 System - Ambient Conditions Monitoring  
Weighing dishes  
Antistatic ionizer  
Receipt Printer  
Fingerprint Reader  
RS 232, RS 485 cables  
Protective cover for balances  
Under-pan weighing  
RS 232 cables (scale - printer)  
RS 232 – RS 485 Converter

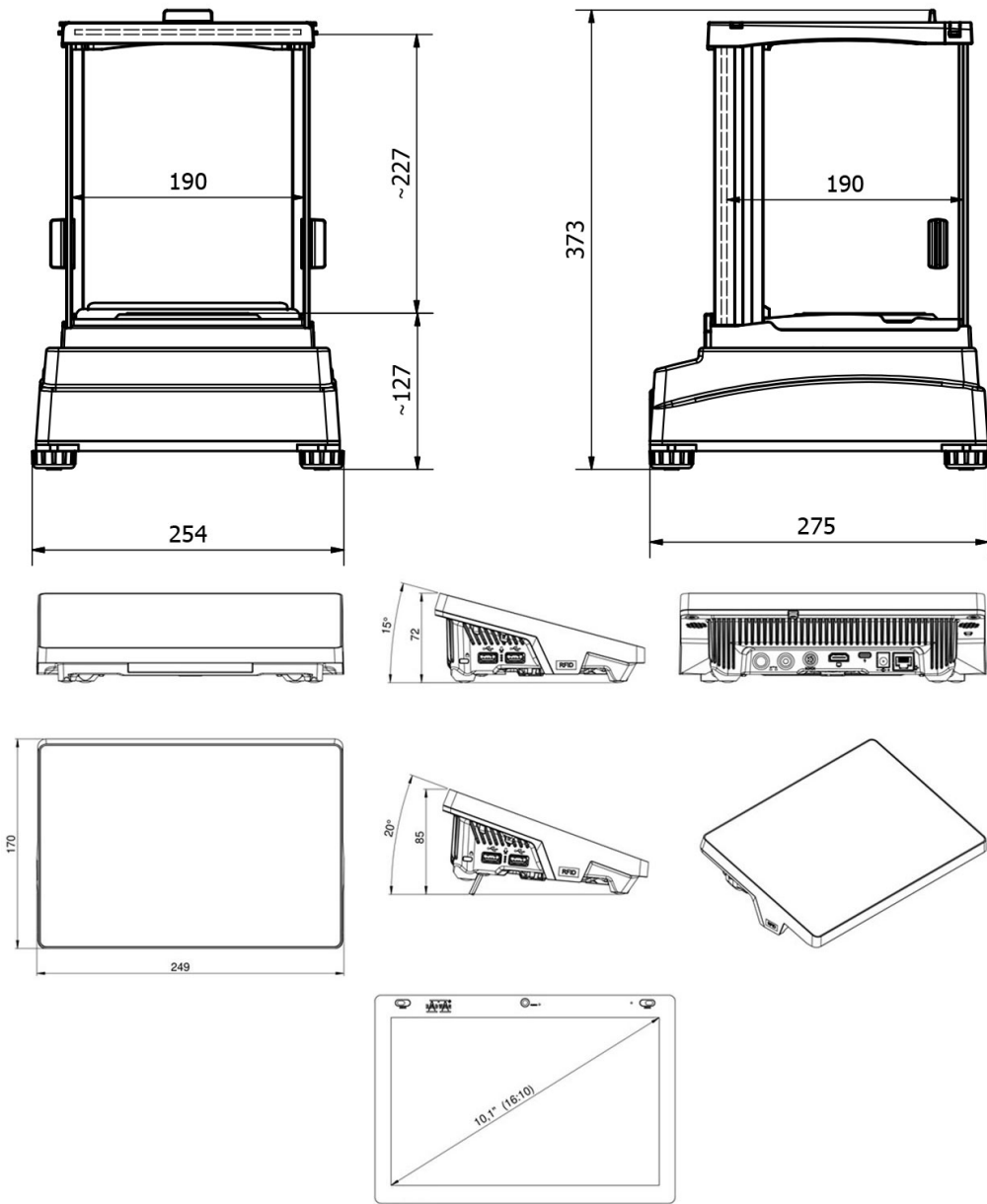
## Software

RAD-KEY  
THB-R  
RADWAG Remote Desktop  
R-LAB  
RADWAG Development Studio  
R.Barcode

LabVIEW Driver  
Label Editor R02  
Alibi Reader  
Scales Editor 2.1  
E2R System

## Device dimensions

AS 62.5Y Analytical Balance, AS 62.5Y Analytical Balance, AS 220.5Y Analytical Balance, AS 220.5Y Analytical Balance, AS 160.5Y Analytical Balance, AS 160.5Y Analytical Balance, AS 82/220.5Y Analytical Balance, AS 82/220.5Y Analytical Balance, AS 60/220.5Y Analytical Balance, AS 60/220.5Y Analytical Balance, AS 3100.5Y Analytical Balance, AS 3100.5Y Analytical Balance, AS 120.5Y Analytical Balance, AS 120.5Y Analytical Balance, AS 310.5Y Analytical Balance, AS 310.5Y Analytical Balance, AS 520.5Y Analytical Balance, AS



520.5Y Analytical Balance