

RANGER® 7000 Compact Bench Scales

General Specifications

Weighing Units	kg, g, lb, oz, lb:oz, Custom Units
Application Modes	Weighing with Statistics, Parts Counting, Percent Weighing, Check Weighing/Counting, Dynamic Weighing (Display Hold), Filling, Formulation, Differential Weighing, Density Weighing, Sieve Analysis
Display	109 mm / 4.3 in TFT Graphic LCD
Keypad	8 function, 5 soft, 12 numeric membrane keys
Construction	Stainless Steel Platform, Die Cast Housing
Protection	IP54
Stabilization Time	1 second
Zeroing Range	2% or 10% of Capacity
Safe Overload Capacity	150 % of Capacity
Interface	Standard RS232, USB Device, USB Host
	Optional Ethernet, 2 nd RS232, 2 nd Platform Remote Base, 2 In/4 Out Discrete I/O
Power	100-240 VAC / 50/60 Hz Universal Power Supply, rechargeable lithium battery (Optional)
Display Dimensions (W x D x H)	267 x 118 x 72 mm / 10.5 x 4.6 x 2.8 in

Technical Specifications

Model	R71MD3	R71MD6	R71MD15	R71MD35	R71MD60
Capacity x Readability	3 kg x 0.00005 kg 3,000 g x 0.05 g 6 lb x 0.0001 lb 96 oz x 0.002 oz	6 kg x 0.0001 kg 6,000 g x 0.1 g 15 lb x 0.0002 lb 240 oz x 0.005 oz	15 kg x 0.0002 kg 15,000g x 0.2 g 30 lb x 0.0005 lb 480 oz x 0.01 oz	35 kg x 0.0005 kg 35,000 g x 0.5 g 70 lb x 0.001 lb 1,120 oz x 0.02 oz	60 kg x 0.001 kg 60,000 g x 1 g 150 lb x 0.002 lb 2,400 oz x 0.05 oz
Maximum Displayed Resolution	1:60,000	1:75,000	1:75,000	1:70,000	1:75,000
Min. Recommended APW	0.0025 g / 0.000005 lb	0.005 g / 0.00001 lb	0.01 g / 0.000025 lb	0.025 g / 0.00005 lb	0.05 g / 0.0001 lb
Min. Recommended Sample Weight	1 g / 0.002 lb	2 g / 0.004 lb	4 g / 0.01 lb	10 g / 0.02 lb	20 g / 0.04 lb
Maximum Displayed Resolution	1:60,000	1:75,000	1:75,000	1:70,000	1:75,000
Internal Counting Resolution	1:1,200,000	1:1,500,000	1:1,500,000	1:1,400,000	1:1,500,000
Linearity/Repeatability	±2d				
Base Housing Dimensions (W x D x minH)	280 x 280 x 114 mm / 11 x 11 x 4.5 in		377 x 311 x 128 mm / 14.9 x 12.2 x 5 in		
Platform Dimensions (W x D x H)	280 x 280 x 31 mm / 11 x 11 x 1.2 in		377 x 311 x 48mm / 14.8 x 12.2 x 1.9 in		
Net Weight	6.8 kg / 15 lb		9.9 kg / 21.8 lb		
Shipping Weight	8.5 kg / 18.7 lb		13.4 kg / 29.5 lb		
Shipping Dimensions	605 x 405 x 244 mm / 23.8 x 15.9 x 9.6 in		665 x 525 x 330 mm / 26.2 x 20.7 x 13 in		
Calibration	Span or Linear				
Battery Life	12 hours continuous use				

Model	R71MHD3	R71MHD6	R71MHD15	R71MHD35
Capacity x Readability	3 kg x 0.00001 kg 3,000 g x 0.01 g 6 lb x 0.00002 lb 96 oz x 0.0005 oz	6 kg x 0.00002 kg 6,000 g x 0.02 g 15 lb x 0.00005 lb 240 oz x 0.001 oz	15 kg x 0.0001 kg 15,000 g x 0.1 g 30 lb x 0.0002 lb 480 oz x 0.005 oz	35 kg x 0.0001 kg 35,000 g x 0.1 g 70 lb x 0.0002 lb 1,120 oz x 0.005 oz
Maximum Displayed Resolution	1:300,000	1:300,000	1:150,000	1:350,000
Min. Recommended APW	0.0005 g / 0.000001 lb	0.001 g / 0.000002 lb	0.005 g / 0.00001 lb	0.005 g / 0.00001 lb
Min. Recommended Sample Weight	0.2g / 0.0004lb	0.4g / 0.001lb	2g / 0.004lb	2g / 0.004lb
Internal Counting Resolution	1:6,000,000	1:6,000,000	1:3,000,000	1:7,000,000
Linearity/Repeatability	±2d			
Base Housing Dimensions (W x D x minH)	280 x 280 x 114 mm 11 x 11 x 4.5 in		377 x 311 x 128 mm 14.9 x 12.2 x 5 in	
Platform Dimensions (W x D x H)	210 x 210 x 12 mm 8.3 x 8.3 x 0.5 in		377 x 311 x 48mm 14.8 x 12.2 x 1.9 in	
Net Weight	7.2 kg / 16 lb		10.9 kg / 24 lb	
Shipping Weight	9.2 kg / 20.3 lb		14.4 kg / 31.7 lb	
Shipping Dimensions	605 x 405 x 244 mm / 23.8 x 15.9 x 9.6 in		665 x 525 x 330 mm / 26.2 x 20.7 x 13 in	
Calibration	InCal™ internal calibration, Span or Linear			
Battery Life	9 hours continuous use			

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The management system
governing the manufacture
of this product is
ISO 9001:2015 certified.

