	UR3e	UR5e	UR10e	UR16e
Specifications				
Payload	3 kg (6.6 lbs)	5 kg (11 lbs)	10 kg (22 lbs)	16 kg (35.3 lbs)
Reach	500 mm (19.7 in)	850 mm (33.5 in)	1300 mm (51.2 in)	900 mm (35.4 in)
Degrees of freedom			6 rotating joints	
Programming		12 inch touchsc	reen with polyscope graphical user interface	
Performance				
Power, Consumption,	300 W	570 W	615 W	585 W
Maximum Average Power, Consumption, Typical with moderate operating settings (approximate)	100 W	200 W	350 W	350 W
Safety		17	configurable safety functions	
Certifications	EN ISO 13849-1, PLd Category 3, and EN ISO 10218-1			
Force Sensing, Tool Flange Range Precision Accuracy	Force, x-y-z 30.0 N 10.0 Nm 2.0 N 0.1 Nm 3.5 N 0.1 Nm	Force, x-y-z Torque, x-y-z 50.0 N 10.0 Nm 3.5 N 0.2 Nm 4.0 N 0.3 Nm	Force, x-y-z Torque, x-y-z 100.0 N 10.0 Nm 5.0 N 0.2 Nm 5.5 N 0.5 Nm	Force, x-y-z Torque, x-y-z 160.0 N 10.0 Nm 5.0 N 0.2 Nm 5.5 N 0.5 Nm
Movement				
Pose Repeatability per ISO 9283	± 0.03 mm	± 0.03 mm	± 0.05 mm	± 0.05 mm
Axis movement Base Shoulder Elbow Wrist 1 Wrist 2 Wrist 3	Working range Maximum speed ± 360° ± 180°/s ± 360° ± 180°/s ± 360° ± 360°/s ± 360° ± 360°/s Infinite ± 360°/s	Working range Maximum speed ± 360° ± 180°/s ± 360° ± 180°/s	Working range Maximum speed ± 360° ± 120°/s ± 360° ± 120°/s ± 360° ± 180°/s ± 360° ± 180°/s ± 360° ± 180°/s ± 360° ± 180°/s	Working range Maximum speed ± 360° ± 120°/s ± 360° ± 120°/s ± 360° ± 180°/s ± 360° ± 180°/s ± 360° ± 180°/s ± 360° ± 180°/s
Typical TCP speed			1 m/s (39.4 in/s)	
Features				
IP classification			IP54	
ISO 14644-1 Class Cleanroom			5 —	
Noise	Less than 60 dB(A)	Less than 65 dB(A)	Less than 65 dB(A)	Less than 65 dB(A)
Robot mounting			Any Orientation	
I/O ports Digital in Digital out Analog in			2 2	
Tool I/O Power Supply Voltage			12/24 V —	
Tool I/O Power Supply	600 mA	1.5 A (Dual pin) 1 A (Single pin)	2 A (Dual pin) 1 A (Single pin)	2 A (Dual pin) 1 A (Single pin)
Physical				
Footprint	Ø 128 mm	Ø 149 mm	Ø 190 mm	Ø 190mm
Materials			Aluminium, Plastic, Steel	
Tool (end-effector) connector type			M8 M8 8-pin	
Cable length robot arm			6 m (236 in)	
Weight including cable	11.2 kg (24.7 lbs)	20.6 kg (45.4 lbs)	33.5 kg (73.9 lbs)	33.1 kg (73 lbs)
Operating Temperature Range			0-50°C	
Humidity			90%RH (non-condensing)	

TECHNICAL DETAILS

Control box

Features

IP44
6
0-50°C
16 16 2 2 4
24V 2A
500 Hz Control frequency Modbus TCP PROFINET Ethernet/IP USB 2.0, USB 3.0
100-240VAC, 47-440Hz
90%RH (non-condensing)
475 mm x 423 mm x 268 mm (18.7 in x 16.7 in x 10.6 in)
12 kg (26.5 lbs)
Powder Coated Steel

Teach pendant

Features

IP classification	IP54		
Humidity	90%RH (non-condensing)		
Display resolution	1280 x 800 pixels		
Physical			
Materials	Plastic, PP		
Weight including 1m of TP cable	1.6 kg (3.5 lbs)		
Cable length	4.5 m (177.17 in)		

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Universal Robots has more than 50+ local offices and a wide network of channel partners (distributors and system integrators) worldwide.