



Presenting the e-Series

The e-Series UR10e is the most powerful version of the ground-breaking collaborative robot technology from Universal Robots, market leader in cobots. The UR10e lets your business seamlessly integrate a cutting-edge robot into your existing production environment to fully explore and benefit from the opportunities that automation offers. Boost productivity, improve quality and increase job satisfaction – the possibilities are endless.

Next-generation automation

With the ability to automate tasks up to 10 kg with no compromise on precision, the UR10e is the Universal Robots' family's most powerful robot. A reach radius of 1300 mm also enables it to carry out tasks like packaging and palletizing in facilities where there is a larger distance between different operating areas. This versatility is supported by the Universal Robots+ ecosystem, an online showroom that provides cutting-edge products to customize a UR robot application that perfectly meets your requirements.

Limitless potential anyone can embrace

The UR10e lets anyone program in just minutes. Use the intuitive Teach Pendant to program by simply moving the cobot to the desired waypoints or select from pre-programmed functions on the touchscreen. The built-in Force Torque sensor delivers maximum precision and allows the UR10e to be programmed for highly sensitive applications.

The Universal Robots advantage

Universal Robots is setting new standards for how businesses use collaborative robot technology with fast set-up times, limitless flexibility, easy programming, safe and collaborative operation, and fast payback.

Fast set-up

Unpack, mount and program the first simple task with your UR10e in just 60 minutes.

Easy programming

Intuitive user interface dramatically reduces the time it takes to program. Inexperienced programmers can learn to program the UR10e in as little as 87 minutes, using the free training modules at Universal Robots Academy.

Limitless flexibility

Quickly and easily automate almost any task with virtually unlimited applications in your production and deploy the UR10e as often as required.

Collaborative

Our cobots are certified by TÜV NORD for ISO 10218-1 and safety functions are rated as Cat.3 PL d according to ISO 13849-1 and, subject to risk assessment, can typically work safely alongside operators on the production line, all thanks to built-in and customizable safety features. At Universal Robots, we make safety imperative so our users are free to explore and experiment with the unlimited applications of our cobots for greater productivity and product quality with peace of mind.

Explore more at universal-robots.com/e-series



UR10e technical details

Performance

Power consumption	Approx. 350 W using a typical program
Safety System	All 17 advanced adjustable safety functions incl. elbow monitoring certified to Cat.3, PL d. Remote Control according to ISO 10218

Certifications by TUV Nord EN ISO 13849-1, Cat.3, PL d, and full EN ISO 10218-1

F/T Sensor - Force, x-y-z

Range	100 N
Resolution	2.0 N
Accuracy	5.5 N
F/T Sensor - Torque, x-y-z	
Range	10 Nm
Resolution	0.02 Nm
Accuracy	0.60 Nm

Specification

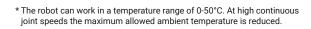
Payload	10 kg / 22 lbs
Reach	1300 mm / 51.2in
Degrees of freedom	6 rotating joints DOF
Programming	Polyscope graphical user interface on

Movement

Pose Repeatability	+/- 0.05 mm, with payload, per ISO 9283	
Axis movement robot arm	Working range	Maximum speed
Base	± 360°	± 120°/s
Shoulder	± 360°	± 120°/s
Elbow	± 360°	± 180°/s
Wrist 1	± 360°	± 180°/s
Wrist 2	± 360°	± 180°/s
Wrist 3	± 360°	± 180°/s
Typical TCP speed		1 m/s / 39.4 in/s

Features

i catare	3		
IP classifi	cation	IP54	
ISO Class	Cleanroom	5	
Noise		Less than 65 dB(A)	
Robot mo	unting	Any Orientation	
I/O ports		Digital in Digital out Analog in Tool communication	2 2 2 RS-485
I/O power	supply in tool	12V/24V 600mA continuo	ous, 2A peak
Ambient t	emperature range	0-50°C*	
Humidity Physica	al .	90%RH (non-condensing)	





Control box

Features

reatures	
IP classification	IP44
ISO Class Cleanroom	6
Ambient temperature range	0-50°
I/O ports	Digital in 16 Digital out 16 Analog in 2 Analog out 2 500 Hz control, 4 separated high speed quadrature digital inputs
I/O power supply	24V 2A
Communication	Control frequency: 500 Hz ModbusTCP: 500 Hz signal frequency ProfiNet and EthernetIP: 500 Hz signal frequency USB ports: 1 USB 2.0, 1 USB 3.0
Power source	100-240VAC, 47-440Hz
Humidity Physical	90%RH (non-condensing)
Control box size (WxHxD)	475 mm x 423 mm x 268 mm 18.7 in x 16.7 in x 10.6 in
Weight	Max 13.6 kg / 30.0 lbs
Materials	Steel

Teach pendant

Features

IP classification	IP54
Humidity	90%RH (non-condensing)
Display resolution	1280 x 800 pixels

Physical

Materials	Plastic
Weight including 1 m of TP cable	1.6 kg / 3.5 lbs
Cable length	4.5 m / 177.17 in

