



UNIVERSAL ROBOTS

A Teradyne Robotics Company

CB7 Core

Generation 7

Technical datasheet

Updated September 2026

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CB7 Core

Compatibility

Robot arm series	g-Series, e-Series, UR-Series
Software compatibility	PolyScope X
Teach Pendant	TP7
Models	CB7 Core

Environment

Operating temperature	0-50 °C with reduced performance from 35 °C and up.
Humidity	≤ 90% RH (non-condensing)
Noise	Less than 50 dB(A)
Pollution degree	2

Protection

IP classification	Control Box: IP54
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Physical

Control box size (W x H x D)	393 x 284 x 201 mm / 15.5 x 11.2 x 7.9 in
Weight	12.385 kg / 27.3 lb
Materials	Aluminium, plastic, steel
Mounting	Wall mount or free-standing

Electrical interface

I/O ports	16 configurable digital in, 16 configurable digital out (all safety-assignable as 8 dual-channel pairs), 2 analog in, 2 analog out, 4 quadrature digital in
I/O power supply	24 V / 4 A
System update frequency	500 Hz
Communication	MODBUS TCP & EtherNet/IP adapter, PROFINET, USB 2.0, USB 3.0, USB Type C
Network	3x Ethernet RJ-45 (10/100/1000 Mbps), 1000BASE-T
SCC rating	200 A
Power supply	100-240 VAC, 50-60 Hz
Control Box connector type	Harting receptacle

Contact

UR HQ address

UR HQ phone

UR email

UR website

Universal Robots A/S
Energivej 51
5260 Odense, Denmark
+45 89 93 89 89
sales@universal-robots.com
universal-robots.com



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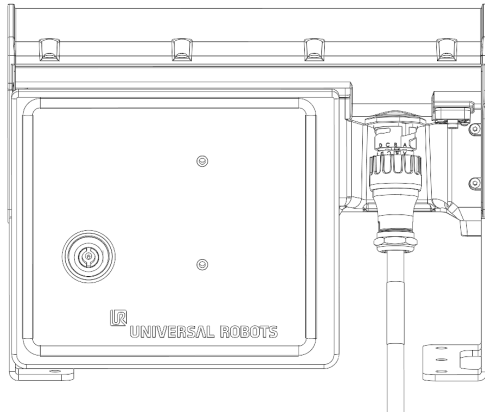
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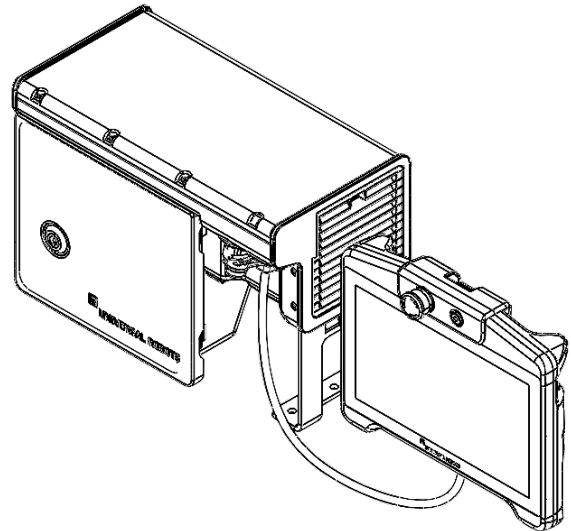
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Robot Cable connection to Control Box



Teach Pendant connected to Control Box

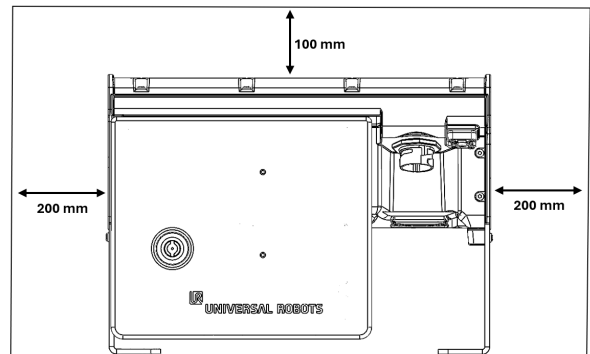


Controller I/O terminal layout

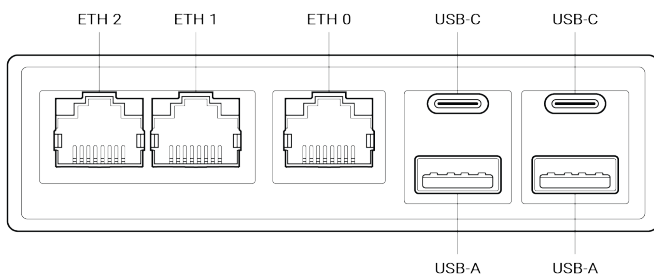
Analog Outputs		Analog Inputs		Power		Remote		0V	
LDV	AO	AOV	AI1	PWR	24V	24V	0V	DI0	DI1
AOV	AOV	AOV	AI0	GND	0V	ON	0V	DI2	DI3
AOV	AOV	AOV	AI0	24V	ON	OFF	0V		
AOV	AOV	AOV	AI0	0V	OFF				

Safety		Configurable Inputs		Configurable Outputs		Configurable Inputs		Configurable Outputs	
24V	E10	24V	CI0	24V	CO0	24V	CI8	24V	CO8
24V	E11	24V	CI1	24V	CO1	24V	CI9	24V	CO9
24V	E12	24V	CI2	24V	CO2	24V	CI10	24V	CO10
24V	E13	24V	CI3	24V	CO3	24V	CI11	24V	CO11

Control Box mounting clearances



Control ports diagram



UNLESS OTHERWISE SPECIFIED: Dimensions are in millimeters.
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