UNIVERSAL ROBOTS
A Teradyne Robotics Company

# GEN 7

## Industrial Automation.
## Built for AI.

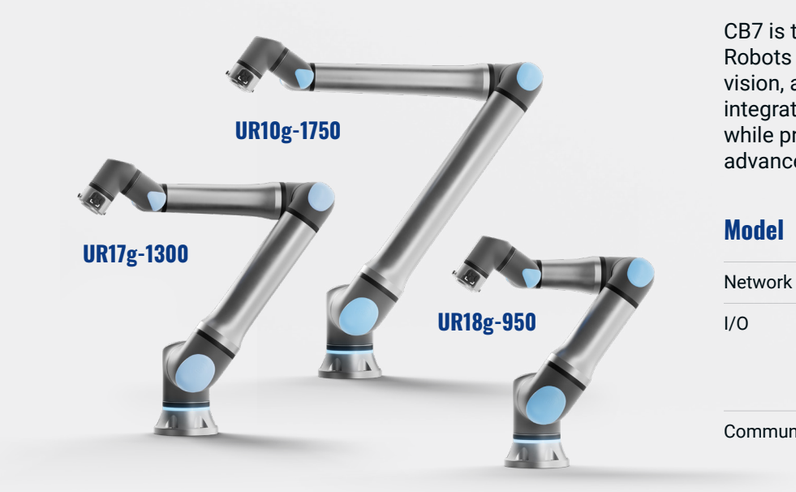



TERADYNE Robotics
The Destination Platform for Physical AI

# g-Series Industrial Collaborative Robots

Gen 7 is a unified platform combining CB7, TP7, SP7, Polyscope X and the newest g-Series of collaborative industrial robots which expand upon 6 generations and 100,000 deployments to bring data, power and safety directly to the tool flange. The g-Series robot is AI-ready and enables connecting to cameras and advanced end effectors without external cabling complexity

Designed as one coordinated system with CB7, TP7, SP7, and PolyScope X.




| Model | UR10g-1750 | UR17g-1300 | UR18g-950 |
|---|---|---|---|
| Payload | 10 kg<br>22.0 lbs | 17.5 kg<br>38.6 lbs | 18 kg<br>39.7 lbs |
| Reach | 1750 mm<br>68.9 in | 1300 mm<br>51.2 in | 950 mm<br>37.4 in |
| Max TCP speed | 5 m/s | 5 m/s | 5 m/s |
| Repeatability | ±0.08 mm | ±0.05 mm | ±0.05 mm |
| Weight | 44.7 kg<br>98.5 lbs | 40.7 kg<br>89.7 lbs | 39.2 kg<br>86.4 lbs |
| Tool flange interfaces: | 1 Gb Ethernet<br>24 V / 48 V (3A continuous) power<br>M8 I/O (safety rated)<br>SP7 Interface (safety rated, optional) | | |
| Environmental protection: | IP65 | | |
| In compliance with: | EN ISO 13849-1<br>EN ISO 10218-1<br>UL 1740 | | |

# g-Series Tool Flange

## More data. More power. Less complexity.



- M12 X-coded 1Gb Ethernet
- Tool Power 24V/48V DC 3Amp
- M8 I/O Compatibility with safety I/O
- Detachable Smart Panel Interface

# CB7 Core Controller

CB7 is the highest-compute controller Universal Robots has built, with the headroom needed for AI, vision, and advanced robotics applications. Three integrated 1 GbE ports reduce integration complexity while providing the bandwidth and connectivity that advanced automation and physical AI require.

| Model | CB7 Core controller |
|---|---|
| Network | 3 × 1 Gb Ethernet |
| I/O | 16 x Configurable digital or safety I/O<br>4 x Analog I/O<br>4 x Quadrature digital inputs<br>24 V DC, 4A |
| Communication | Modbus TCP & Ethernet/IP adapter<br>PROFINET<br>2 x USB 3.0 Type A<br>2 x USB 3.0 USB Type C |
| Compliance | UL 1740 · EMC |



| Enclosure Configurations | With cabinet:<br>CB7 Core | Rail-mount:<br>CB7 Core Compact |
|---|---|---|
| Dimensions | 393 × 284 × 201 mm<br>15.5 × 11.2 × 7.9 in | 387 × 158 × 201 mm<br>15.2 × 6.2 × 7.9 in |
| Weight | 11 kg<br>24.3 lbs | 8.5 kg<br>18.7 lbs |
| IP Classification | IP54 | IP20 |
| Cable options | Extended robot and teach pendant cable lengths available | |

# TP7 Core Teach Pendant & SP7 Smart Panel

TP7 Core teach pendant and SP7 Smart Panel were designed for the people who program every day to make for a faster and more comfortable programming and teaching experience.



## TP7 Core teach pendant

TP7 Core modernizes the UR interaction experience with a new virtual joystick for faster and more precise robot jogging. The lightweight, ergonomic design supports multiple gripping positions so you can program more comfortably for longer sessions.

- Full HD multi-gesture display
  2 x configurable buttons
- 1.39 kg / 3.06 lbs (incl. 1 m of cable)
- 2 x 3PE devices · ISO 10218-1 compliant
- Cables up to 12 m · IP54 external cable access

## SP7 Smart Panel (g-Series only)

Enables 2PE freedrive per ISO 10218-1 and exposes configurable buttons for customized at-tool control.

- 2PE freedrive button — ISO 10218-1 compliant
- 3 x configurable buttons
  2 x configurable LEDs
  Open API for third-party developers
- Detachable for maintenance, programming and operation



# UR+ Ecosystem

The Gen 7 collaborative industrial robot platform is backed by the UR+ Ecosystem of end-effectors, solutions, software, and accessories from the world's leading physical AI and technology providers.

These validated partners simplify integration complexity and reduce the risk of deployment failures so your automation never stands still.




- **PERIPHERALS** — grippers, grasping, cameras, vision, tool changers, screwdrivers and finishing tools
- **SOFTWARE** — Robust URCaps and software for robot setup, control and application specific deployments
- **PHYSICAL AI** — perception, dexterous manipulation, assembly, picking, and path generation

**Scan the code to book a demo today!**

MiR | TERADYNE Robotics

**Ready to explore automation opportunities?**
**Our team can help you identify the right solution, connect you with the right partners, and develop a roadmap for your success.**

# The Destination Platform for Physical AI

Teradyne Robotics is a global leader in advanced robotics systems, and the destination platform for physical AI.

Its two robotics brands, Universal Robots (UR) and Mobile Industrial Robots (MiR), develop collaborative industrial robots (cobots) and autonomous mobile robots (AMRs), respectively, that automate production tasks and the movement of materials across thousands of sites.

Teradyne Robotics has local sales, training, innovation and production sites world wide.

Visit the website for a complete list of offices:
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## Collaborative robots

Universal Robots is the world's leading cobot company, helping manufacturers automate repetitive and demanding tasks safely alongside people. Our cobots are easy to deploy, flexible to redeploy, and designed to deliver fast payback across a wide range of applications. They increase productivity, improve quality, and help address persistent labor challenges.

## Autonomous mobile robots

Mobile Industrial Robots is a global leader in AMRs for internal logistics and material transport. Our robots navigate dynamic environments safely, moving materials efficiently without requiring fixed infrastructure. By automating routine material movement, manufacturers reduce non-value-added work and improve workflow efficiency.

## Our ecosystem

The Teradyne Robotics ecosystem brings together the market's leading providers of automation integration, software, components, and solutions worldwide. This network of partners helps customers accelerate deployment with proven solutions tailored to specific applications and industries. From end-of-arm tooling and vision systems to AI-driven software and turnkey cells, our partners expand what is possible on the factory floor.

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