Cybersecurity Fact Sheet

Universal Robots | Technical Reference | August 2026

UNIVERSAL ROBOTS

New EU regulations are making cybersecurity mandatory for industrial robots. Universal Robots is already independently certified and will be fully compliant ahead of every deadline.

Existing robots already in operation are **not affected** by the CRA. This sheet summarizes what's changing, our compliance roadmap, product compatibility, and legacy security guidance.

AT A GLANCE

IEC 62443-4-1 ML3	CRA Ready	Existing Robots	EU MR 2023/1230	NIS2
Certified by TÜV Rheinland All of Teradyne Robotics	**June 2027** 6 months ahead of deadline Free PolyScope X update	**Not affected** CRA applies only after Dec 11, 2027	**Target Dec 2026** ISO 10218-1:2025 TÜV certification	**Compliant** Already today

COMPLIANCE TIMELINE

TODAY
IEC 62443-4-1 ML3 certified
NIS2 compliant

→

END 2026
ISO 10218-1:2025 TÜV cert.
(PolyScope 5 & X)
= EU Machinery Regulation

→

JUNE 2027
IEC 62443-4-2 SL1 (PolyScope X)
Free PolyScope X update
= CRA Compliance

→

DEC 11, 2027
EU CRA enforcement
UR ready 6 months ahead

Standards & Regulations

IEC 62443-4-1 — SECURE DEVELOPMENT (THE "HOW")

Certifies our *development process* is secure across 8 mandatory practices (security management, threat modeling, secure design, secure coding, penetration testing, vulnerability handling, update management, hardening docs). Our **ML3 certification covers all of Teradyne Robotics**.

IEC 62443-4-2 — PRODUCT SECURITY (THE "WHAT")

Defines what security features the robot must have — 7 Foundational Requirements:

- **FR1** Identification & Auth.
- **FR2** Use Control (RBAC)
- **FR3** System Integrity
- **FR4** Data Confidentiality
- **FR5** Restricted Data Flow
- **FR6** Event Monitoring
- **FR7** Resource Availability

Target: **SL1 by 2027** for PolyScope X and relevant MiR products. Most robots today operate at effectively SL0.

EU CYBER RESILIENCE ACT (CRA)

Mandatory cybersecurity for all products with digital elements sold in the EU.

Key Essential Requirements (Annex I):

- **No Known Vulnerabilities:** Products delivered without known exploitable CVEs. Requires continuous scanning & updates.
- **Secure by Default:** Secure configuration out-of-box — no default passwords.
- **Vulnerability Handling:** Documented processes to identify, fix, and disclose security issues.
- **Secure Updates:** Ability to apply security updates throughout product lifecycle.
- **Data Protection:** Encryption of stored and in-transit data.
- **SBOM:** Complete Software Bill of Materials for transparency.

Timeline: Enforcement starts **Dec 11, 2027**. Products not meeting these requirements cannot be placed on the EU market after this date.

Compliance: All PolyScope X products sold after **June 2027** will be compliant. All PolyScope X installations will receive a free software update to ensure full compliance.

Presumption of conformity: IEC 62443-4 certification lets you answer audits with an internationally recognized certificate instead of costly custom assessments.

SECURING LEGACY EQUIPMENT

For PolyScope 3/5 robots that cannot be upgraded, apply **Defense-in-Depth**:

1. **Isolate:** Dedicated subnet, separated from office IT
2. **Firewall:** Hardware firewall between robot subnet and other networks
3. **Filter ports:** Allow only necessary traffic (29999, 30001–30004, 502, 44818, 34962–34964)
4. **Physical security:** Restrict access to teach pendant & USB
5. **Monitor:** Log traffic for anomaly detection

Product Compatibility

SOFTWARE PLATFORMS

Platform	Status	OS	Compat.	CRA?
PolyScope X	**Future-Ready** Next-gen, secure by design. Modular, continuous updates.	**Debian 12** (from Apr 2026)	e-Series & UR Series w/ CB5.6	**YES** June 2027
PolyScope 5	**Classic** EOS: Dec 2027 (EU) / Summer 2028 (RoW). Maint. to 2036.	**Debian 8** Maint. only	e-Series & UR Series (CB5.0–5.6)	**NO**
PolyScope 3	**Legacy** EOL since 2022.	**Debian 7**	CB3 only	**NO**

HARDWARE PLATFORMS

Control Boxes

- **CB5.6** — Latest. Ships with PolyScope X. CRA path.
- **CB5.5** — Standard for PolyScope 5. Upgradeable to CB5.6.
- **CB5.0–5.4** — Legacy. Replaceable.
- **CB3** — Legacy (EOL 2022). Incompatible w/ e-Series/UR Series.

Robots

- **UR Series** — PolyScope X (CB5.6) or PolyScope 5 (CB5.5/5.6).
- **e-Series** — PolyScope X (CB5.6) or PolyScope 5 (CB5.0–5.6).
- **CB3 Series** — CB3 control boxes only.

Frequently Asked Questions

Q: Do I need to replace existing robots for CRA?
A: No. CRA applies only to products placed on the EU market *after* Dec 11, 2027. Existing robots can continue to operate.

Q: Will CRA compliance be a free update?
A: Yes. All existing PolyScope X installations will receive a **free software update** (targeted June 2027).

Q: Why can't PolyScope 3/5 be made CRA-compliant?
A: These are tightly coupled firmware-like stacks on Debian 7/8 — OS and application can't be independently updated. **PolyScope 5-based robots (e-Series/UR Series) can upgrade to PolyScope X via CB5.6 swap.**

Q: Will UR support products after End of Life?
A: Yes. Critical safety and functionality patches for up to **8 years after EOL**.

Q: What does IEC 62443-4 certification prove?
A: 4-1 (process): every stage of development follows independently audited security practices, at ML3. 4-2 (product): the robot itself has tested security capabilities. Both verified by TÜV Rheinland.

UPGRADE PATH

The most effective strategy is upgrading to **PolyScope X with CB5.6** — built-in security, continuous updates, and a clear CRA compliance path. Contact your UR representative to discuss options.