Touchable® Cardiovascular Surfaces (TCS)

TCS is a surface-level physiological sensing architecture that supports interaction-admitted acquisition and disciplined outputs aligned to host integration.

WHAT TCS IS

TCS can be described as a surface-integrated sensing topology in which:

- **Interaction-admitted acquisition** limits sensing activity to locations associated with user interaction at the surface

- **Suitability screening** can be applied to candidate signals associated with the admitted locations before deeper processing or export.

- **Disciplined export** supports host integration by limiting what leaves the surface boundary to structured physiological channels and minimal metadata, based on integration policy.

INTEGRATION CONTEXTS

TCS is designed to be integrated into touch and grip surfaces where interaction naturally occurs, including:

- Notebook trackpad and adjacent touch interfaces
- Notebook palmrest or rest-zone surfaces
- Industrial handheld grip zones and work tools
- Automotive touch interfaces and grip zones

Implementation specifics and performance depend on embodiment and integration policy.

VALIDATION HIGHLIGHTS

- Operational data: 200,000+ frames collected.
- Validation pilots: deployment in public areas in West London and a private at-home pilot program.

These highlights demonstrate field operation across multiple environments and usage patterns.

PATENT COVERAGE

BioStealthAI maintains a first-generation TCS patent family with the following status:

- Granted in Great Britain
- Granted in China
- Allowed in Europe
- Pending in the United States with continuation

Patent scope is defined only by the claims of the relevant patent publications. A patent hub is available on the website for status and plain-language summaries.

PARTNER ENGAGEMENT

BioStealthAI engages with OEMs and strategic partners to evaluate TCS integration pathways and licensing models. Partner materials and technical briefs are available on request and may be provided under NDA depending on the content and stage of engagement.

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Publication Note : Architectural overview only. Implementation varies by embodiment. Patent scope is defined by the claims of the relevant patent publications.