Kopis 1967:
Portable AV Recorder

Complete webcasting console in a tough package: made for on-the-spot recording, editing and publishing.

Performance Characteristics
Mobile, all-in-one PC features the latest Sixth Generation Intel® processor plus COTS motherboard and components. Shock-resistant construction. Large, 300-nit display available in conventional or touch-screen format. Flexible configuration options allow for the installation of multiple third-party components, including GPU.

Ergonomics:
Overall dimensions: 16 ½" (419mm) W x 13" (330mm) H x 2 ½" (63.5mm) D. Chemically-strengthened glass, with custom-designed chassis and card supports built for extreme durability. Shock-resistant bumper. Built for reliable performance in portable applications.

Regulatory/Environmental:
The platform was designed to meet exacting regulatory and environmental compliance standards, including CISPR22 and FCC Class A for radiated emissions, and MIL-STD 810F for vibration.
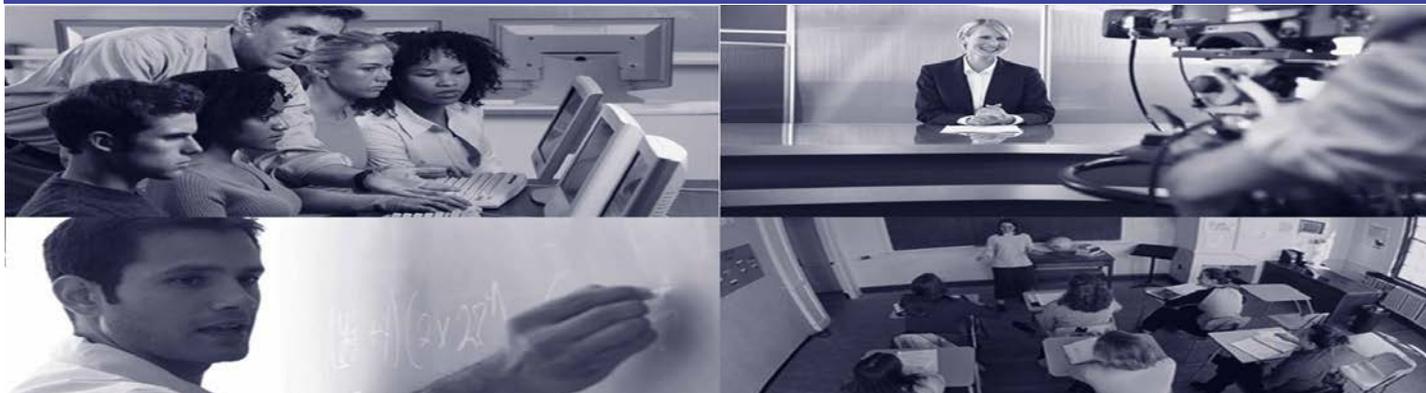
Lifecycle:
Seven year availability.

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EmbedTek designs, invents, and manufactures computers, software, sensors, cameras, and displays for original equipment manufacturers. Our systems improve the quality of imaging in healthcare, simulation programs in the military, video analytics in security, and much more. Throw any challenge at us, from demanding environment and ergonomic requirements to High Level Assembly and nonstandard I/O. We'll evaluate it, carefully attack it, and solve it.

Product Realization:
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EmbedTek used the second iteration of this product to implement a total redesign, for a versatile system combining performance and reliability under the most challenging conditions.

Overall challenge:
Apply the latest mobile technology to an existing product line to create a high-performance PC (with room for additional components) in a compact, robust package.

Design:
Product brainstorming started with a tablet-style computer, with the ability to build in additional capabilities using third-party cards. Mechanical design featured shock-absorbing features and card supports, plus special chemically-strengthened glass to make a robust system.

Prototypes & Validation:
Interim prototypes provided for software validation and integration with other A/V components; final systems built to qualify reliability under tougher-than-expected shock and vibration profiles.

Launch:
Product design made to be backward-compatible with existing software and application, to allow gradual introduction to the market.

Production, End-of-Life:
EmbedTek manufactures and warehouses systems, then ships direct to customer's end-users. System design to accommodate future technology changes and allow for strategic product upgrades based on a market-friendly timetable.

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