

CASE STUDY

Dependable Control for Regulated Science: IVC Displays and BioCold Environmental

Client	BioCold Environmental — manufacturer of controlled-environment rooms and stability chambers
Industry	Laboratory and pharmaceutical environmental control equipment
Partner Since	2008
Engagement	Industrial touch screen computer supplier, with ongoing application support and consulting
Core Technology	Industrial touch screen computers powering BioCold's BioLogic Touchscreen Interface

BACKGROUND

BioCold Environmental designs and manufactures controlled-environment rooms, FDA/ICH-compliant stability chambers, and laboratory incubators used by pharmaceutical companies and research institutions to maintain the precise, stable temperature and humidity conditions required for product stability testing and scientific research. At the center of BioCold's chambers is the BioLogic Touchscreen Interface, which gives lab personnel straightforward control over environmental setpoints along with secure data logging and remote monitoring capabilities.

IVC Displays has supplied the industrial touch screen computers behind that interface since 2008, along with ongoing application support and consulting as BioCold's control requirements have evolved.

THE CHALLENGE

BioCold's customers operate in FDA-regulated environments, where precise, stable environmental conditions are not simply a matter of product quality — they are a regulatory requirement. A stability chamber that drifts outside its validated temperature or humidity range, even briefly, can compromise or invalidate months of pharmaceutical stability testing data.

BioCold needed a touch screen computing platform that could support continuous, accurate monitoring and control of environmental conditions over long, often unattended test cycles, while also meeting the data integrity and audit-trail expectations that come with FDA and ICH stability testing guidelines and regulations such as 21 CFR Part 11. General-purpose, consumer-grade computing hardware could not be relied on to run accurately and continuously for the extended durations pharmaceutical stability testing demands.

THE SOLUTION

Since 2008, IVC Displays has supplied BioCold with industrial-grade touch screen computers built for the kind of continuous, dependable operation that regulated environmental control requires. These systems

form the hardware foundation of BioCold's BioLogic Touchscreen Interface, giving lab technicians a straightforward way to set and monitor temperature and humidity conditions while the underlying platform reliably logs data for compliance and audit purposes.

Beyond supplying the hardware itself, IVC has provided ongoing application support and consulting — working alongside BioCold's engineering team as chamber designs, control requirements, and compliance needs have evolved, rather than simply delivering a one-time hardware order.

RESULTS

Through this partnership, BioCold has been able to focus on its core expertise — designing and validating controlled environments for regulated science — while relying on IVC Displays for dependable touch screen computing hardware and the technical support behind it. The relationship has delivered:

A dependable control platform — industrial touch screen computers built for the continuous, unattended operation that regulated stability testing requires.

Support for regulatory compliance — a hardware platform suited to the data integrity and audit-trail demands of FDA/ICH stability testing and 21 CFR Part 11.

A long-standing technical partnership — nearly two decades of hardware supply, application support, and consulting since 2008.

LOOKING AHEAD

IVC Displays continues to serve as BioCold Environmental's touch screen computing partner, pairing dependable industrial hardware with the application support and consulting that helps BioCold's controlled-environment rooms and stability chambers keep pace with the evolving needs of pharmaceutical and research customers operating in tightly regulated environments.