

PRE-ANALYTICAL CARD HANDLER

BSD 600 Ascent A2

 **Capitainer**[®]

**The long-trusted and well-established
solution for dried microsample
laboratory handling**

BSD600 Ascent A2

**is now fully compatible
with Capitainer cards.**



Why precise punching matters

Modern molecular workflows demand accuracy, traceability, and scalability. When dried blood, plasma, or urine samples are used for high-value or high-volume assays, every disc removal must be consistent, documented, and contamination-controlled.

Manual or semi-manual processes introduce variability, operator dependence, and limited traceability – risks that increase with throughput and regulatory demands.

The BSD600 Ascent A2 solves this bottleneck, enabling reliable, automated sample preparation that protects data integrity and operator safety – from forensic and justice workflows to clinical and research laboratories.

Together with **Capitainer's volumetric microsampling**, the system supports end-to-end confidence: from controlled sample collection to precise downstream processing

About The BSD600 Ascent A2

A fourth-generation semi-automated lab solution for dried samples on filter paper and cards.

BSD robotic systems are trusted globally across forensic, genealogy, DNA banking, health screening, and research laboratories, the system combines robust hardware, intuitive touch-screen operation and advanced imaging.



Reliable sample disc removal

- Full sample traceability, including barcodes, images, and customizable output files
- High-resolution imaging of plate wells for visual verification
- Integrated dust reduction and decontamination cycles to minimize contamination risk
- Easy-to-use auto-trigger, footswitch, or software-controlled removal. 96-well plate format and easy cleaning.

The system runs fully offline for secure environments, with optional wired connectivity for workflow integration.

FAQ

We are happy to answer your questions and tailor solutions to your needs.

What sample types are supported?

The system is fully compatible with Capitainer® blood cards. Development for Capitainer®SEP10 and Capitainer®DIP70 are ongoing.

How is traceability ensured?

Each run is documented with time-stamped data, barcode IDs, plate maps, and images captured before and after the run sequence. Data can be exported in multiple file formats to meet audit and reporting needs.

How does it reduce operator error?

Real-time imaging, LED light targeting, and automated disk detection and verify successful transfer – reducing guesswork and improving first-pass success.

Can it integrate with existing lab systems?

Yes. BSD Studio software supports open integration with LIMS, liquid handlers, and analytical instruments through configurable worklists and automated output files.

How does this complement Capitainer sampling?

Capitainer ensures precise, volumetric microsampling at collection. The BSD600 Ascent A2 ensures precise, traceable sample preparation in the lab – together supporting reproducible, scalable workflows.