



RAPID DNA ANALYSIS™

THE RIGHT ANSWER,
RIGHT ON TIME

ANDE® is a fully automated, ruggedized, rapid short tandem repeat (STR) system with an integrated Expert System Software for data analysis.

The system generates human DNA IDs compatible with DNA databases around the world in less than 2 hours.

This automated system minimizes the analytical complexity and user manipulations required for field-forward biometric and forensic applications. ANDE® is the first fully automated and integrated, field-deployable system that rapidly generates human DNA IDs with no user manipulations after inserting a sample into the system.

FAST

DNA results in less than 2 hours

EASY TO USE

Designed for use by non-technical personnel

ACCURATE

Results at least as good as conventional labs

MOBILE

Hardened for use outside of a lab



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ANDE.COM





SYSTEM SPECIFICATIONS

ANDE® 6C INSTRUMENT

Dimensions	75 x 45 x 60 cm (29.5 x 17.6 x 23.6 in)
Weight	54kg (117 lbs)
Operating Conditions	10°C to 40°C (50°F to 104°F) 20% to 80% relative humidity, non-condensing
Altitude	Up to 3,048 m (10,000 ft) via configuration
Power	100 to 240 VAC +/-10%, (50 or 60Hz) line power; < 5 A peak load at 120 VAC (60Hz) line power, < 3 A peak load at 230 VAC (50 Hz) line power, Generator: Sine wave AC power only, as rated above
Ruggedization	U.S. Military Standard 810G for vibration and shock during transportation
External Connections	USB 2.0, GPS (USB 2.0, L1 frequency reception; sensitivity > -150dBm) / Wi-Fi 802.11 hardware included for future use / Ethernet (RJ45 10/100/1000 megabit data rates) / SVGA / DVI
Data Security	Password Protected, 3 levels of user access, FIPS-140-2 encryption of data
Sample Security	Samples irreversibly locked into Chip
Sample Tracking	Integrated barcode scanner and RFID reader
Internal Memory	5000 runs (standard configuration); additional storage available on request
Manual Calibration & Alignment	No manual calibration or optical alignment is required
Resolution	Single base resolution within a locus across the size range from 80 to greater than 500 bases
Data Output Files	.png, .xml, .fsa, and allele table (.csv) formats

A-CHIP™

STR Assay	FlexPlex® containing 23 autosomal loci, 3 Y loci, and amelogenin
Sample Types	Buccal
Sample Capacity	Up to 5 samples
Process Time	94 min
Controls	Allelic Ladder and Internal Lane Standard
Storage	Room temperature: 5°C to 25°C (41°F to 77°F)
Stability	Six (6) month stability
Ruggedization	U.S. Military Standard 810G for vibration and shock during transportation

I-CHIP™

STR Assay	FlexPlex® containing 23 autosomal loci, 3 Y loci, and amelogenin
Sample Types	Includes blood, tissue, bone, and crime scene samples
Sample Capacity	Up to 4 samples
Process Time	106 min
Controls	Allelic Ladder and Internal Lane Standard
Storage	Room temperature: 5°C to 25°C (41°F to 77°F)
Stability	Six (6) month stability
Ruggedization	U.S. Military Standard 810G for vibration and shock during transportation

STR ASSAY

FlexPlex® 27	D1S1656, D2S1338, D2S441, D3S1358, D5S818, D6S1043, D7S820, D8S1179, D10S1248, D12S391, D13S317, D16S539, D18S51, D19S433, D21S11, D22S1045, FGA, CSF1PO, Penta E, TH01, vWA, TPOX, SE33, DYS391, DYS576, DYS570, and Amelogenin
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SOFTWARE

ANDE Expert System	Raw data processing, allele assignment, and interpretation of DNA IDs
ANDE FAIRS™ Software	Data security, DNA ID repository, data viewing, and search