

A3. Specifications



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Handheld Analyzer	Description	
Weight	3.35 lbs. (Base wt.), 3.70 lbs. (1.6 kg) with battery	
Excitation Source	4 Watt X-ray tube - Au, Ag, Rh, or Ta anode (application optimized), 8-40 keV, 5 - 200 μ A, eight filter positions	
Detector	Various: Si PIN diode or Si Drift detector, thermo-electrically cooled, high resolution	
Power	Removable Li-ion batteries, or AC power unit	
Battery Life	Battery life varies depending on usage patterns	
Display	Color "transflective" touchscreen (800 x 600) with 16-bit LCD interface)	
Cal Check Coupon	316 Stainless Steel Alloy -- see also Docking Station	
Power Requirements for AC Adapter	110-220 VAC, 50-60 Hz, 600 W max (P/N 100043)	
Pressure Correction	Built-in barometer for automatic altitude correction	
Operating Environment	Temperature: -10°C to 45°C Humidity: 10 to 90% Relative Humidity, non-condensing Altitude Rating: 2000 meters	Operating specifications are posted as nominal.
Operating System	Windows Embedded CE®	
Application Software	Innov-X Systems' proprietary Data Acquisition and Processing package.	
USB Interface	USB 2.0	
Docking Station	Description	
Dimensions	L=14.0 in x W=8.75 in x H=4.75 in (H w/ spare battery = 6.5 in); Wt = 3.25 lbs.	
Power Requirement	AC adapter standard: 110-220 VAC, 50-60 Hz, 600 W max	
Cal Check Cup	Automatically performs Cal Check on inserted instrument	
Battery Charging	Charges battery in unit; can simultaneously charge spare battery in separate socket	
Accessories	Description	
AC Battery Charger	P/N 120253	
TestStand/Workstation	A-020-D - portable equipment stand making a fully shielded closed beam system. Uses Delta PC Software.	
Soil Foot	A-035	
Soil Extension Pole	P/N 990055	
Trimble Xploration Package (P6000FDC)	XPLORER FIELD DATA COLLECTION BUNDLE Trimble Nomad 800G-LC - Ruggedized 800Mhz Field Computer with integrated GPS, Wi-Fi, Bluetooth, Camera, 16Gb Memory, SD Card Slot Options: Barcode Scanner, Cell Phone Interface, Fully DGPS compatible running Windows Mobile 6.0 OS.	

C8. Consumer Goods Analysis Modes

There are two consumer goods modes:

RoHS



RoHS

RoHS regulated elements- **Cr, Hg, As, Pb, Br, Cd,**
PLUS Cl, Ti, Fe, Co, Ni, Cu, Zn, Sn, Sb, Ba

Analysis software for measurement of restricted elements in electronics and consumer goods. Auto-compensations built in for metal, polymer, and mixed matrices.

Consumer Products



Consumer

Analysis software designed for CPSIA & Prop 65 testing. **Pb** content displayed as **Pass/Fail** based on regulated limits.

Additional elements Cl, Ti, Cr, Fe, Co, Ni, Cu, Zn, Hg, As, Br, Cd, Sn, Sb, Ba also reported.

Tour of Instrument

1. Handheld Analyzer

Component Key

Delta – All Models

1	Delta Analyzer (Premium Model Shown)
2	Probe
3	Measurement Window (Prolene Film)
4	Hinged Window Plate
5	Docking Station Connector
6	Trigger
7	Handle – Non-Slip Rubber Grip
8	Battery Boot
9	Data Port w/ Rubber Cover
10	Heat Sink
11	I/O (Power) Switch w/ LED Indicator
12	X-ray Warning Light Array
13	Touchscreen for User Interface
14	Navigation Keys



- 11 I/O Power Switch w/LED Indicator
- 12 X-ray Warning Light Array

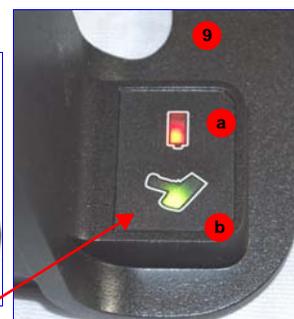
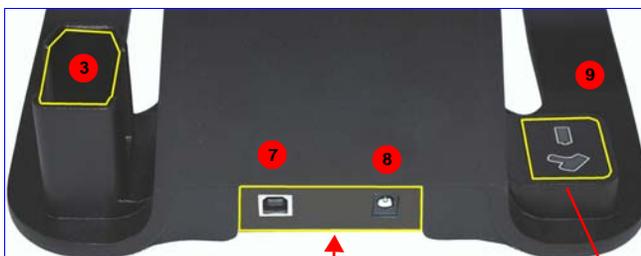
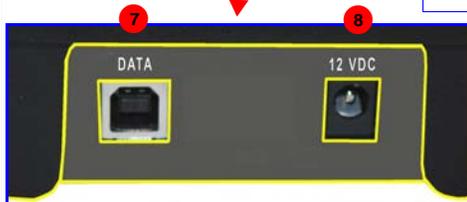
2. Docking Station



Component Key

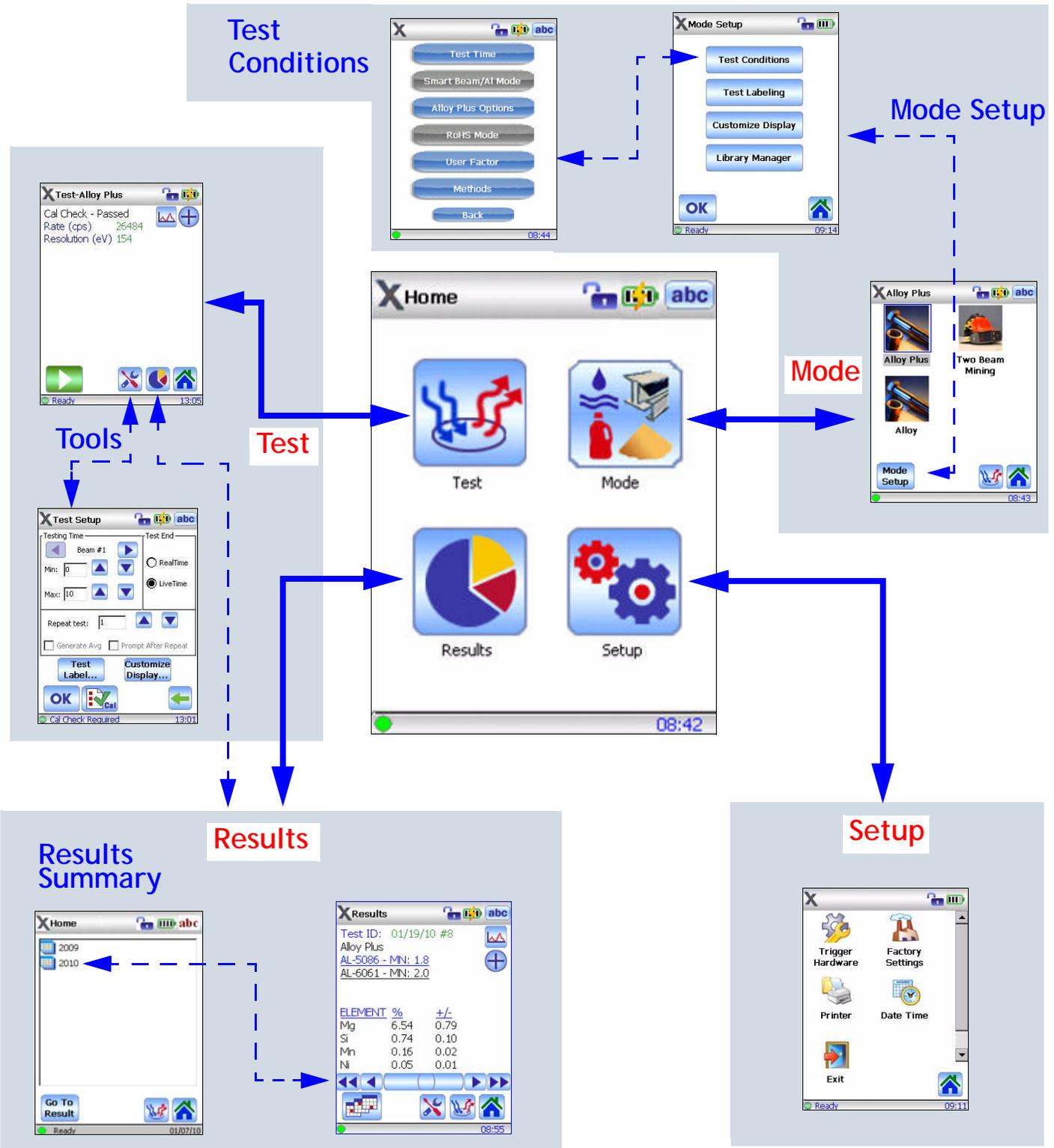
Delta – All Model

1	Docking Station (Empty)
2	Analyzer Signal/Control Connector
3	Second Battery Charge Socket
4	CalCheck Test Cup (316 stainless steel)
5	Docking Station (Loaded)
6	Second Battery in Socket
7	Data Port(s): — Docking Station ->Rear — Analyzer -> Left Side
8	Input Power (12 VDC)
9	Indicator Lights
a	Second Battery Charging
b	Analyzer Engaged



SNAPSHOT: Delta User Interface

The Delta's user interface is introduced by the startup Radiation Safety and Initialization screens. {See page 11} Main operations then revolve around the Home screen.



GRAPHIC ELEMENTS: Delta User Interface

ICONS and BUTTONS and INDICATORS



Home Test Results Mode Setup Tools CalCheck



Start Test Stop Test Results: Navigation Display: Spectrum Display: Chemistry Exit Screen & Save Changes Exit Screen & Don't Save Changes

Perform:

El	%	+/-	Spec (AL-7075)
Al	89.20	0.56	[87.32-91.42]
Zn	5.79	0.03	[5.10-6.10]
Mg	1.99	0.78	[2.10-2.90]
Cu	1.60	0.02	[1.20-2.00]
Si	0.37	0.06	[0.00-0.40]
S	0.32	0.07	Tramp
Fe	0.25	0.01	[0.00-0.50]
Cr	0.24	0.02	[0.18-0.28]

Additional UI elements include: 'X Test-Alloy Plus' title, ID: 02/26/10 #2, AL-7075 - MN: 0.2, 7075 - MN: 1.1, a 'Ready' indicator, and a time display of 10:06.

Typical User Interface Screen

X=Review S/W Title: Name of Screen & Current Mode Padlock Trigger Indicator

Display: Keyboard Battery Status

Display: Expand Display: Minimize Information Indicator: Black - Messages Red - Errors

On Screen Vertical Scrolling

Use finger to move display vertically – or – horizontally for added information

On Screen Horizontal Scrolling

ELEMENT	%	+/-
Mg	6.54	0.79
Si	0.74	0.10
Mn	0.16	0.02
Ni	0.05	0.01

Additional UI elements include: 'X Results' title, Test ID: 01/19/10 #8, Alloy Plus, AL-5086 - MN: 1.8, AL-6061 - MN: 2.0, and a time display of 08:55.

Lower Status Bar
Elapsed 5.0 sec Bm#1 09:13
Progress Bar & Test Message
Ready 09:14
System OK/Ready System Time

Go to *User S/W Interface Guide*, P/N 103118, for complete S/W details. {Available: Spring, 2010}