

GLOBAL ONLINE AUCTION

STARTING: January 15, 7:00 am **ENDING:** January 16, 10:00 am PST



On Behalf of Alion: State of the Art Stealth CdTe Solar Panel Pilot Line and R&D Facility

On Behalf Of:

Alion

AUCTION DATES:

Starting: January 15, 2013 - 7:00 am PST

Ending: January 16, 2013 - 10:00 am PST

AUCTION & PREVIEW LOCATION:

870 Harbour Way South
Richmond, CA 94804

PUBLIC INSPECTION:

Monday, January 14th, 2013
9:00 am – 4:00 pm Local Time or by appointment.

AUCTIONEER'S NOTE:

HGP is pleased to be selected to conduct this Global Online Sale for Alion.

This Global Online Sale features a State of the Art Stealth CdTe Solar Panel Pilot Line and R&D Facility.

Please view our website at www.hgpauction.com for the complete listing, bidding instructions and the full terms of the sale. Thank you for your interest, and we look forward to providing you quality equipment sales and World Class Service.

ADDITIONAL INFORMATION:

For more information including a photo gallery, equipment list, terms and conditions of sale and more, please visit www.hgpauction.com.

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SPUTTER/COATING SYSTEMS



GENERAL PLASMA BACK CONTACT SPUTTER SPUTTERING SYSTEM

SPUTTER SYSTEMS

- **GENERAL PLASMA** Back Contact Sputter Sputtering System, Uses Moly and Aluminum Target Sources. Includes Spare Target. Mfg. 2011. 480volts, 3 phase, 60hz, 20amps, Includes Oerlikon Leybold # WSU 1001 Vacuum Pump. With / (1) Advanced # 3152542-101C Pinnacle Plus Plasma Generator, (1) Dell OptiPlex 740 Control Computer & 19" Flat Panel Monitor on Stand, (1) Ace Transformer Cat # TP533133SMH TP1A, 480volts, 45ka, 60hz, 3 phase, Weight 383lbs, (1) Oerlikon Leybold # WSU1001 Vacuum Pump, (1) Trivac # D&B Pump
- **MATERIAL RESEARCH COMPANY** 603 Vacuum Coater Sputter System, used Moly and Aluminum Targets. 208volts, 110a, 60hz, 3 phase, 80-100psi Air, Includes Edwards # IQDP-40 Vac Pump With / Edwards Electronic Module

COATING SYSTEMS

- **ALL4-PCB** KU 455-CdCl CdCl₂ Spray Coater, Cad Tool Coater, 19kW, 400V, Stainless Steel. Mfg. date 2011. Range Voltage 3X 277 / 480v, 5060hz, Full Load Current 23a, Rating Largest Load 2.5a, Max Rating Protective Device 30a, Short Current Range 5ka rms sym 480vac max, Tension 3X277 / 400V-5060HZ, Power 19KW. 23A, Year 2011
- **NTACT** CdTe Slot Coater, Die Coater, Cad Chloride, Sub Micron 0.5, With / Standridge 3 1917-01 Gannet Surface Base in side Custom Enclosure includes Pump Station, and Titanium Coating Die. Includes Hielscher Ultrasound Technology UIP500H Transducer, and 3 SMC # PA3110-NO3-N Process Pump Modules, With / Shuttleworth Slip Torque Conveyor



ALL4-PCB KU 455-CDCI CDCI2 SPRAY COATER



NTACT CDTE SLOT COATER, DIE COATER



ALL4-PCB EDTA ETCH WET PV WET PROCESS STATION

BUYER'S PREMIUM: 15% cash buyers;
18% for credit card purchasers

(Refer to Term 7 in the Auction Terms and Conditions for details)

SALE WILL BE CONDUCTED IN ENGLISH
AND WILL ACCEPT US CURRENCY ONLY



INFRARED HEATING TECHNOLOGIES, INC. (IHT) ITICBO1Z-110KVA-ASP-01 CDTE DRYER.



MATERIAL RESEARCH COMPANY 603 VACUUM COATER SPUTTER SYSTEM

OVENS/FURNACES • WASHERS • DRYERS



HOLZHER KUNDIG PRIMA HORIZONTAL BELT SANDER



BTU INTERNATIONAL TFF 361-10-360N78GT COATING FURNACE



BTU INTERNATIONAL TFF-142-7-126N48GT BACK CONTACT BELT FURNACE



MANZ GCT-S 1100 CDCI2 LARGE PLATE WASHER

OVENS/ FURNACES

- **AII4-PCB** KU 410-20-130 Drying Oven, 60kW, 72a, Rating Voltage 3 X 277 / 480V,5060HZ, Full Load Current 725a, Rating Largest Load 8.5a, Max Rating Protection Device 80a, Short Circuit Rating 18ka rms sym 480v, Mfg date 2011
- **BLUE M** IGF-6680F-4 Lab Oven, Never Used, Temp Range 593°C / 1100°F, 208-240volt, 3 phase, 60hz, Line Current 21 / 24,
- **BTU INTERNATIONAL** TFF 361-10-360N78GT Coating Furnace, CdTe activation furnace, Atmosphere Non Explosive, Temp 600°C - 700°C, 7 zones, 480V, 130a, 3phase, 115kVA, 5060hz, non explosive atmosphere, SCCR: 5ka rms sym metric airc-1-dle, mfg date 2011
- **G S BLUE M** DCC-500 Box Oven, 480volts, With / SYX Systems Control Computer, With / Dell 19" Flat Panel Monitor on Stand, Foot Print:68"W X 3'D X 79"H
- **(3) GP GROUP** GBO-A1003C Curing Oven, IR dryer, 480volts, With / (1) Pass Thru Conveyor Sections. GBO-A1003, Foot Print:18'2"W X 6'4"D X 6'8"H, Pass Thru #1 7'8"W X 5'D X 3'9"H, #2=7'5"W X 5'D X 3'9"H, #3=7'7"W X 5'D X 3'9"H
- **HENGLI ELETEK CO.** HSA10005-1607ZN Back Contact Anneal Furnace, 16 Zone, 650°C Max Temp, 165kW, 39" W/ 1000mm W Belt Furnace, 1000mm, Mfg. Date 2011
- **LINDBERG BLUE M** M01450A Mechanical Oven Lab Oven, 120volts, 2.1kw, 1 phase, 5060hz, 40°C - 300°C Temp Range. Foot Print: 34"W X 23"D X 47"H
- **SMIT** Sintering Furnace, Sinter Roller Oven, 3 chamber, Power 480vac, 60Hz, 3Phase +PE, Full Load Amps 180a, Short Circuit Range 10ka, Largest Resist Load 21.5a, Largest Motor Range 2.2kw, Connecting Power 150kVA, Control Voltage 120vac /24vdc, Mfg. date 9/ 2011

WASHERS

- **GMW (GLASS MACHINE WORKS)** 2336-6-4-2P Glass Panel Washer; 480 volts, 3phase, 60hz Short Circuit Range: 10k@ 480vrms; Full Load Amps 40, Weight of Belt 45"
- **MANZ** GCT-S 1100 CdCl2 Large plate washer, rinse, and dry module, 3 chamber, includes self contained Siemens Pump and Treat Reclaim System. Mfg date 6/2011

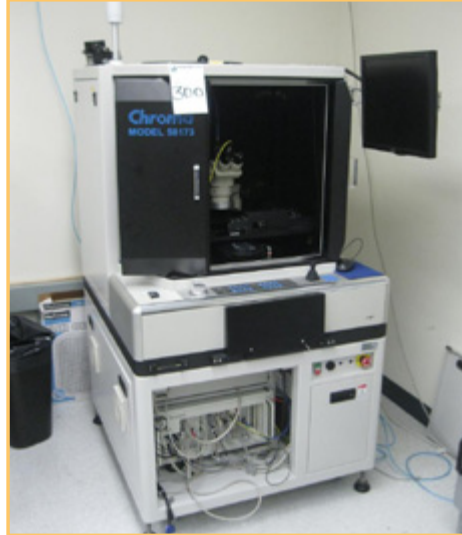
DRYER

- **INFRARED HEATING TECHNOLOGIES, INC.** IHT ITICB01Z-110KVA-ASP-01 CdTe Dryer. Infrared Conveyor Oven, Cooler, and Control Panel, Enclosure Rated Type 1, 480volts, 3phase, 60hz, Full Load Current 132a, SCCR 100ka, With / Dell Tower Control Computer & 22" Flat Panel Monitor on Stand, Foot Print 30'W X 12'D X 12'H, Cabinet Foot Print 5'6"W X 2'D X 6'H. Mfg. date 8/2011

LASER ABLATION • PANEL SCANNERS • TESTERS • PROCESS STATION



VEECO D180 VEECO D180 REACTOR



CHROMA 58173 LED TOTAL POWER TEST SYSTEM



ADVANCED SYSTEM TECHNOLOGY TBN-100 BONDER, NEW

LASER ABLATION

- **JENOPTIK** Votan Solas Multi Automated P1 - P4 Laser Ablation, Scribe, and Edge Machine with auto load/ unload. Class 4 laser. Normal Voltage 480v ac, 3 phase +PE, 60HZ, SCCR:10ka, Ampage Max 32.5a, Main Fuse 40a, Includes With / Load / Unload.

PANEL SCANNER

- **CUSTOM** Ultra High Resolution Panel Scanner. QA for film quality. Includes; (1) Dell OptiPlex 740 Control Computer & (17) ZaReason Tower PC controllers, (2) Hanns-G # HDMI 27" Flat Panel Monitors, (1) Asus 20" Flat Panel Monitor, (5) B-K Precision # 1666 DC Regulated DC Power Supply's, (1) Extreme Networks# X450-24T Summit Switch, (1) Starview 16 Port USB Console krm Switch Panel Scanner, (2) Triple Lite Power Switches, (16) Epson Perfection # V700 Energy Photo Modules

TESTERS

- **CUSTOM SUMMIT IV** Curve Tester. Consisting Of (1) Agilent # 3441A 6 1/2 Digital Multimeter, (1) Kethley # 2420 Source Meter, (1) Kethley # 7001 Switch System, (1) HP # 6267B DC Power Supply, (1) Acus # CM 5571 Tower Control Computer, & Acer 22" Flat Panel Monitor

PROCESS STATION

- **ALL4-PCB** EDTA Etch Wet PR. (PV) Wet Process Station, EDTA Etch Chamber, 36" Belt, 43kW, 480V, 60hz. Mfg Date 2011



GP GROUP GRC-850 PHOTO RESIST ROLLER COATER



PHOTONICS INDUSTRIES 08200-532 LASER EDGE DELETE TOOL



JENOPTIK VOTAN SOLAS MULTI AUTOMATED P1 - P4 LASER ABLATION, SCRIBE, AND EDGE MACHINE

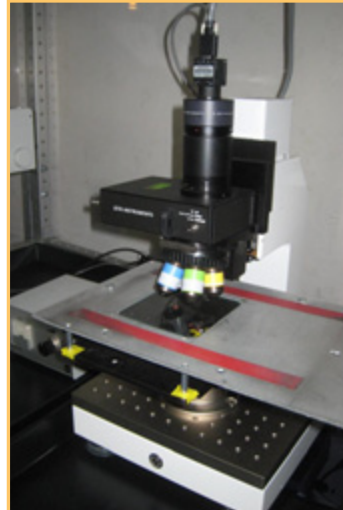


RAMGRABER GMBH INLINE STAR MODEL 2009 POLYPRO (LINE ETCH) 5 MODULE SYSTEM

LAB/FACILITY SUPPORT EQUIPMENT



MICROTECH POLYPRO SINGLE STATION CHEM MIXING AND DISPENSING HOOD



ZETA INSTRUMENTS ZETA-20 INSPECTION



FARR CAMFIL GOLD SERIES DUST COLLECTION

MIXING AND DISPENSING

- **MICROTECH** Stainless Steel 5 Station Chem Mixing and Dispensing Hood, Power 208vac, 40a, 5060hz, SCCR5ka, 3phase 5wire, (3) Accuheats, Single Tank With / Rise Lakes Solvent Scales, Year 2011
- **MICROTECH** Polypro single station Chem Mixing and Dispensing Hood, Power 208vac,80a,5060hz,SCCR5ka,3 phase 5wire, With / (2) Tanks,(3) Rise Lake Solvent Scales
- **MICROTECH** Stainless Steel Double Door, Solvent Dispensing Cabinet

FUME HOODS

- **(5) GENIE** 800 8 ft. Vented Fume Hood, With / (2) Under Counter Cabinets , 20volts, 30amps, 60hz, With / Elastic & Lights, Front Glass Shield, Foot Print 8'W X 3'5"D X 7'6"H
- **(6) KEWAUNEE SCIENTIFIC** FH-5 Supreme Air Fume Hoods, 6 Ft. With / Electric & Lights & 6 Chem Hookups,& 2 Under Counter Cabinets. Foot Print: 6'W X 3'D X 7; 8"H
- **VWR** CFS 547200 Air Fume Hoods, 6 Ft. With / Electric & Lights & 6 Chem Hookups & 2 Under Counter Cabinets

MICROSCOPES

- **HITACHI** S-4000 Scanning Electron Microscope. Console & Power Cabinet. With / Dell GX 720 Control Computer & Hanns-G 27" Flat Panel Monitor.
- **LEITZ** Secolux 6x6 Inspection Microscope With / 10,20,100 Optics,10-18mm Eye Pease's, Tucsen Camera & XY Stage, Wild 12volt light source, & SYX System Control Computer & Samsung 21" Flat Panel Monitor on stand
- **ZETA INSTRUMENTS** Zeta-20 Inspection Microscope, 3D Imaging and Metrology Scope, PN# 0652-003, 4x4 Motorized Stage, With / Zeta Optics 5,10,20,50,100, & Point Gray Camera, Dell Control Computer & HP 24"Flat Panel Monitor

DUST COLLECTION

- **FARR CAMFIL** Gold Series #GS24 Dust Collection, Central Vac, and Scrubber System. 24 Filter unit, Gold Confilter PN # 212492001, Air Volume 20.000 cfm, Static Pressure 10.000w.g., Air to Cloth Ratio 2.56:1, Dust Type Cadmium Battery, mgf year 2011

AIR COMPRESSOR

- **QUINCY** QGD-40 Direct Drive Industrial Air Compressor, 90-226cfm, 100psig, 40hp, 8.75kw, Microprocessor Controller

AIR DRYER

- **QUINCY** QDTH 400 Heatless Desiccant Air Dryer, Capacity 400 scfm, Purg Pressure 47 psig, Max Work Press,140psig,Desiccant AA18, Desiccant Weight 132.5lbs / Tower, Silvan Industries 150PSI at 300°F, 20°F at 150psi, Year 2011

AC GENERATOR

- **MQ POWER COMPANY** 08-083112 AC Generator, Rated Voltage 240v/480v/240v/120volts,3 Phase, 60hz, 70/40kw, Rated Current 168a/84amps, Power Factor 0.8 / 1.0, Engine: Isuzu # FF-4BG1T, Type 4 CYL.4 Cycle, Rated Output:89.6hp, 1800RPMs,Fuel Tank Cap, 103Gallons



NIACT R-RAD EXTRUSION DEPOSITION SYSTEM / SLOT COATER



SIEMENS M21R004EA VANTAGE SERIES DI/RO SYSTEM



HITACHI S-4000 SCANNING ELECTRON MICROSCOPE

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Forwarding Service Requested

BUYER'S PREMIUM: 15% cash buyers;
18% for credit card purchasers

(Refer to Term 7 in the Auction Terms and Conditions for details)



GLOBAL ONLINE SALE : JANUARY 16, 2013 - 7:00 AM PST



Global Online Auction: A State of the Art Stealth CdTe Solar Panel Pilot Line and R&D Facility. Richmond, CA USA

TERMS & CONDITIONS

Buyers are responsible for all shipping and rigging charges. • All items are sold **AS IS, WHERE IS AND WITH ALL FAULTS**. • Heritage Global Partners shall charge and collect from each successful bidder a 15% on site cash buyers; 18% on site buyers using credit cards. Purchasers who pay in the form of certified funds or wire transfer shall receive a discount from the buyer's premium equal to 3% of the purchase price. • Each successful bidder must pay a 25% deposit toward the purchase price immediately following the successful bid. • Applicable taxes will be added to the purchase price of all taxable items. • Acceptable means of payment include certified funds, wire transfers, *Visa*®, *American Express*® and *Mastercard*®. • The complete terms and conditions that govern this auction will be distributed at the auction site and/or are available on our website at www.hgpauction.com. The complete terms and conditions may include terms unique to this particular auction. Please read them carefully before you bid in the auction. If you participate in the auction, you will be deemed to have read and consented to all of the Terms & Conditions.

UPCOMING SALES CALENDAR



February 07, 2013
7:00 am PST

Global Online Sale Featuring
Solar Panels, Inverters, Granite
Tables, Electronics, and More!

Fremont, CA



February 06, 2013
10:00 am CET

Featuring 60 MW (a-Si/μc-Si)
Thin Film Solar Module
Production Line

Großbröhrsdorf, Germany



January 16, 2013
7:00 am PST

Featuring Flash Solar Simulators,
Aqueous Cleaners, Wire Bonders,
X-ray Inspection Machines, Laser
Maker, Reflow Ovens, Station
Curing, Datacon Multichip Attach.

Seal Beach, CA

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Complete Terms & Conditions are contained in the Sale Catalog and on the website at www.hgpauction.com.
Please review the Terms and Conditions prior to placing bids on any items. Global Headquarters: San Diego, California

AFFILIATIONS



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