

TOC Xray Lab
Radiation alarm
beadmaker
centrifuge
centrifuge 2
XRD
freeze dryer
mixer mill
scitech balance
shatterbox
Xpress

A	Instrument	Radiation Alarm
	ODP #	00326
	Model	Type Number 180 010 00
	Vendor	Philips (Now Panalytical)
	Date of purchase	6/29/1984
	Date of installation	1984, Prior to ODP Leg 100
B	Vendor manual	Analog
		Instruction Manual: Alarm monitor, radiation
		Instruction Manual: Model 14C Geiger Counter
	schematic	Yes
C	Cookbook (STD)	No
	Cookbook (special)	No
D	Software	N/A
	version	N/A
	installation date	N/A
E	Instrument hardware setup	see vendor manual
	Instrument upgrade	None
F	Maintenance log	no
		see leg report volumes
	vendor repair log	No
G	Application/operational use	X-ray Diffraction
	sample type	XRD
	specification/accuracy	N/A
H	Spare parts	Contact Mike Handley (Houston) 281-
	Consumables	None
	Supporting system	Diffractionmeter, geiger counter
	Comments	This instrument sits on top of the

Xray instrument database.xls

A	Instrument	Bead Sampler
	ODP #	03996
	Model	NT-2100
	Vendor	Tokyo Ragaku Co.
	Date of purchase	6/30/1995
	Date of installation	Leg 161
B	Vendor/House manual	analog (1 black binder)
	schematic	Yes (in manual)
C	Cookbook (STD)	see ICP Procedures manual
	Cookbook (special)	No
D	Software	N/A
	version	N/A
	installation date	N/A
E	Instrument hardware setup	see vendor manual
	Instrument upgrade	None
F	Maintenance log	no
		see leg report volumes
	vendor repair log	No
		No
G	Application/operational use	ICP preparation - beadmaking
	sample type	ICP
	specification/accuracy	N/A
H	Spare parts	Siman - none
		non-Siman - 12 platinum crucibles w/
	Consumables	Lithium metaborate flux, Lithium
	Supporting system	Ship water for cooling, crucible
	Comments	none

A	Instrument	Centrifuge 1
	ODP #	02438
	Model	Marathon Series & Rotor
	Vendor	Fisher Scientific
	Date of purchase	9/27/1992
	Date of installation	ODP Leg 147
B	Vendor manual	No
	schematic	No
C	Cookbook (STD)	None
	Cookbook (special)	None
D	Software	N/A
	version	N/A
	installation date	N/A
E	Instrument hardware setup	No
	Instrument upgrade	No
F	Maintenance log	None
	vendor repair log	None
G	Appliaction/operational use	Paleo science use, clay seperation
	sample type	XRD, PAL
	specification/accuracy	100RPM, unknown accuracy
H	Spare parts	None
	Consumables	None
	Supporting system	None
	Comments	

A	Instrument	Centrifuge 2
	ODP #	02676
	Model	-
	Vendor	Fisher Scientific
	Date of purchase	10/19/1993
	Date of installation	ODP Leg 153
B	Vendor manual	No
	schematic	No
C	Cookbook (STD)	None
	Cookbook (special)	None
D	Software	N/A
	version	N/A
	installation date	N/A
E	Instrument hardware setup	None
	Instrument upgrade	None
F	Maintenance log	None
	vendor repair log	None
G	Appliaction/operational use	Paleo scientist use, clay seperation
	sample type	XRD, PAL
	specification/accuracy	100 RPM
H	Spare parts	None
	Consumables	None
	Supporting system	None
	Comments	

A	Instrument	Diffractometer	
	ODP #	00326	
	Model	PW 1710/00	
	Vendor	Philips (Now Panalytical)	www.panalytical.com
	Date of purchase	6/29/1984	
	Date of installation	1984, prior to ODP Leg 100	
B	Vendor manuals (analog)	Installation Manual - Philips Software on MS/DOS Based Systems	
		Operation Manual - Diffraction Control	
		Diffraction Control Unit PW1710/00 - Operation Manual	
		Alarm Monitor, Radiation Type number 180 010 00	
		Database	
		Schematic Drawings of Diffractometer	
		Software for Automatic Powder Diffraction	
		Control System for Automated Powder Diffraction - 1170/71 - Instruction Manual	
		Glass Diffraction X-Ray Tube	
		X-Ray Detectors: Instruction Manual	
		Original Bid Information	
		Diffraction Control Unit PW 1710/00, Service Manual	
		Service Manual: x-ray detectors	
		Safety Manual for x-ray Analysis	
		Instruction Manual: Diffracted Beam	
		alignment, and service instructions	
	Wide Range Goniometer Radiation		
	schematic	yes (in service manual)	
C	Cookbook (STD)	XRD Procedures (demob version) -	
	Cookbook (special)	Quantitative XRD, Clay Separations	
D	Software version	PC-APD version 3.6i	
	installation date	unknown	
E	Instrument hardware setup	see vendor manuals	
	Instrument upgrade	no	
F	Maintenance log	See x-ray leg reports	
	vendor repair log	XRD Procedure manual : "service	
G	Application/operational use	X-ray diffraction	
	sample type	XRD	
	specification/accuracy	calibrated each batch run to a quartz standard	
	Spare Parts Contact: Mike Handley (Houston) 281-286-8393		
	Siman		
	Part Number	Description	
	XR0115	XRD Electronic board A1	

H	XR0104	XRD board, Front panel display	
	XR0102	XRD board, HV 2000 Supply	
	XR0098	XRD board, Ratemeter	
	XR0095	XRD board, Amplifier	
	XR0096	XRD board, Recorder control	
	XR0106	XRD board, Secondary control	
	XR0100	XRD board, 4-digit binary counter	
	XR0092	XRD board, Extender	
	XR0101	XRD board, Goniometer control	
	XR0093	XRD board, Keyboard display control	
	XR0103	XRD board, System control	
	XR0099	XRD board, Window control	
	XR0135	Belt-Step-pin motor drive	
	XR0094	XRD board, for PW1710	
	XR0042	XRD board, Triac A-2	
	XR0075	Fuse, 1.25A	
	XR0081	Fuse, 20 amp, 500v	
	XR0077	Fuse, R-7931; 250v	
	XR0063	Fuse, R-7985; 250v	
	XR0076	Fuse, 1.6A	
	XR0079	Fuse, 100mA	
	XR0082	Fuse, 16A, 500v	
	XR0074	Fuse, 1A	
	XR0080	Fuse, 200mA	
	XR0071	Fuse, 250mA	
	XR0068	Fuse, 3.15A	
	XR0065	Fuse, 315mA	
	XR0072	Fuse, 315mA	
	XR0064	Fuse, 4A	
	XR0070	Fuse, 50 mA	
	XR0067	Fuse, 6.3A	
	XR0073	Fuse, 630mA	
	XR0078	Fuse, 6V, 5W	
	XR0066	Fuse, 800mA	
	XR0087	Lamp, 12V 10W, 12400	
	XR0086	Lamp, 12V 2W, 12829	
	XR0088	LED, 24V	
	XR0091	O-Ring, X-ray tube	
	XR0085	Plate spring w/ roller	
	XR0084	Set screw R-7636	
	XR0097	Stepping motor supply driver	
	XR0089	Switch, microswitch	
	XR0090	Switch, microswitch, Honeywell	
	XR0002	X-ray tube PW2273/20	
	Spare parts - non-Siman	None known	
	Consumables	None	
	Supporting systems	Radiation Alarm/Monitor, MacDiff, PC-APD	
Comments: The diffractometer is unreliable and the operating software is extremely outdated. It should be replaced as soon as possible.			

A	Instrument	Freeze Dryer
	ODP #	02812
	Model	Benchtop model
	Vendor	Labconco
	Date of purchase	12/8/1993
	Date of installation	ODP Leg 154
B	Vendor manual	No
	schematic	No
C	Cookbook (STD)	None
	Cookbook (special)	None
D	Software	N/A
	version	N/A
	installation date	N/A
E	Instrument hardware setup	None
	Instrument upgrade	None
F	Maintenance log	See XRD Leg Report Volumes
	vendor repair log	None
G	Appliaction/operational use	dehydrating XRD and ICP samples
	sample type	XRD, ICP
	specification/accuracy	N/A
H	Spare parts	Non-Siman- assorted hoses, connectors, and beakers
	Consumables	None
	Supporting system	vacuum pump
	Comments	

A	Instrument	Mixer Mill
	ODP #	00364
	Model	-
	Vendor	Spex Industries
	Date of purchase	7/26/1984
	Date of installation	Prior to ODP Leg 100
B	Vendor manual	No
	schematic	No
C	Cookbook (STD)	See XRD Procedures Manual
	Cookbook (special)	None
D	Software	N/A
	version	N/A
	installation date	N/A
E	Instrument hardware setup	None
	Instrument upgrade	None
F	Maintenance log	None
	vendor repair log	None
G	Appliaction/operational use	XRD and ICP preparation, powdering samples
	sample type	ICP, XRD
	specification/accuracy	N/A
H	Spare parts	Siman- Mixer Mill V-belt, ODP# XR0191
	Consumables	None
	Supporting system	None
	Comments	

A	Instrument	Scientech Balance - x-ray
	ODP #	only balance pads have odp#'s
	Model	House, Leg 200 version
	Vendor	N/A
	Date of purchase	N/A
	Date of installation	Leg 200
B	Vendor manual	analog (1)
	schematic	No
C	Cookbook (STD)	1 Black binder (same as vendor manual)
	Cookbook (special)	None
D	Software	House
	version	Last updated Leg 200
	installation date	December, 2001
E	Instrument hardware setup	See manual
	Instrument upgrade	None
F	Maintenance log	see XRD Leg Report Volumes
	vendor repair log	None
G	Appliaction/operational use	Weighing for ICP preparation
	sample type	ICP
	specification/accuracy	+/- 0.01 mg - Variable, accuracy can be specified.
H	Spare parts	None
	Consumables	None
	Supporting system	X-ray tech computer
	Comments	

Xray instrument database.xls

A	Instrument	Shatter box
	ODP #	00392, 00393
	Model	8500
	Vendor	Spex Industries
	Date of purchase	September, 1984
	Date of installation	Leg 100
B	Vendor manual	No
	schematic	No
C	Cookbook (STD)	See ICP Procedures Manual
	Cookbook (special)	None
D	Software	N/A
	version	N/A
	installation date	N/A
E	Instrument hardware setup	None
	Instrument upgrade	None
F	Maintenance log	see XRD/Paleo Lab Leg Report Volumes
	vendor repair log	None
G	Appliaction/operational use	Powdering ICP samples
	sample type	ICP
	specification/accuracy	N/A
H	Spare parts - Siman	
	Part Number	Description
	XR0186	Shatterbox Bext, O-ring 2.475x.210
	XR0188	Shatterbox Disc (large rubber pad)
	XR0189	Shatterbox disc (small rubber pad)
	XR0185	Shatterbox friction disc for lid
	XR0190	Shatterbox led assembly
	XR0187	Shatterbox locating pin
	Consumables	None
	Supporting system	None
	Comments	3 new tungsten carbide grinding discs should be ordered.

A	Instrument	Hydraulic Press
	ODP #	00310
	Model	X-Press
	Vendor	Spex Industries http://www.c-prompt-
	Date of purchase	July 30,1984
	Date of installation	1984, prior to ODP Leg 100
B	Vendor manual	No
	schematic	No
C	Cookbook (STD)	ICP Procedures - Sciklops/odpads/cookbook/Demob version/cookbook&/xray&paleo/ICP procedures
	Cookbook (special)	No
D	Software	N/A
	version	N/A
	installation date	N/A
E	Instrument hardware setup	See ICP Procedures Manual
	Instrument upgrade	None
F	Maintenance log	Yes
		Leg Report Volumes
	vendor repair log	No
G	Application/operational use	ICP preparation, crushing samples
	sample type	ICP
	specification/accuracy	N/A
H	Spare parts	Siman - Delron Plugs ODP# XR5010 Non-Siman - none known
	Consumables	Delron plugs
	Supporting system	None
	Comments	