In-Field Geophone Acceptance Testing eismic Source

Portable Bird Dog 3 Features:

- Simultaneously test up to three single-axis geophones or geophone strings; or one 3C geophone
- Embedded computer Small, lightweight and portable
- Test data stored in unit for later download and retrieval



Included PC Software Features:

- Data offloading and report printing
- Includes MS Excel compatible interface for statistical analysis and report creation

🔮 Geotest ver 4.16 - temp test Cl/Seismic Source/Geotest4Project/Jemp test															
- Main Menu -	Seismic Source Co Date : 07 May 2015										Copyrigh	t 2001 - 2	014		
Geophone Test	Sir		Serial	Parallel		e Resista 0 Ohm		Interval 1.0 m	Lead-in 1.0 m	Units	IUS nic I cm				
Project	Geophone Settin	ngs 1	Type PS	2 3C		New		Auto fill	specification						
Settings	Coil Resistance (Rc, Ohm)					3600	0 Shunted Impedance (Zts, Ohm) 2850								
100	Moving Mass (M, gram)					2.7	Case to Coil Motion (Disp, cm p-p) 0.4								
Settings	Drive Frequency (Fd, Hz)					12	Temperature (deg C) 20								
Device List	Shunt Resistor (Enter 0 for none)(Rd. Ohm)				(md)	0	Tolerance Settings								
131 IP: 10.0.1.31	31 Natural Frequency (Fn. Hz)			,	2	Frequency Tolerance (+/-)%				5 5					
Open circuit Damping (Bo)				0.5	Damping Tolerance (+ / -) %				10 10						
Selected Chans	ed Chans				0.5						-				
1 2 3	Shunted Damping (Bt)						oundrarity reterance () / 10								
Auto Operations	Open circuit Sensitivity (Go, V/cm/s)					0.22					5 5				
Auto Save	Shunted Sensitivity (Gs, V/cm/s)					0.22	Impedance Tolerance (+ / -) % 5 5								
Confirm saving	Shunted Resista	ance (R	cs, Ohm)			3600	Distort	ion Tole	rance %		0.2				
🛄 Auto repeat test	Type F	Rc,Ohm	M,gram	Fd,Hz	Rd,Ohr	n Fn,Hz	Bo	Bt	Go,V/cm/s	Gs,V/cm/s	Rcs,Ohm	Zts,Ohm	Disp	Temp	Fre
Hardware Settings	rory 4.5	395	11	12	10000	4.5	0.65	0.7347	0.234	0.225	380	864.9	0.40	20	^
LowDrive Level 20%	HS-1_LT	3800	23	12	0	2	0.61	0.61	0.787	0.787	3800	5718.3	0.1524	25	
Pulse Level 60%	HS-1_LT_4_5 unda		23	12	0	4.5	0.27	0.27	0.787	0.787	3800	6126.9	0.254	25	
Trigger Level 0.1 Dist Velocity 1.8	HS-1_LT_4_5 60%		23	12	10700	4.5	0.27	0.5988	0.787	0.581	2804.1	4136.4	0.254	25	
Temperature	HS-1_LT_4_5 70%		23	12	7320	4.5	0.27	0.6987	0.787	0.518	2501.4	3554.6	0.254	25	
Compensation Resistance 0.0028	Omni 2400 Omni 2400 damper	2400	7.8	15	0	15 15	0.57	0.57	0.52	0.52	2400 1994.4	5591.2 3808.1	0.0508	25 25	
Damping -0.0028	PS-10R	1800	14	12	20000	10	0.57	0.0994	0.52	0.432	1651.4	6457.4	0.0508	20	-
Frequency 0.00019	PS-10R 3C	1800	14	12	0	10	0.51	0.51	0.858	0.858	1800	9349.8	0.254	20	
Sensitivity -0.0013	GS-32CT 20C	395	11.2	12	1000	10	0.316	0.7	0.275	0.197	283.2	658.8	0.152	20	
Impedance 0.00082	HP102	395	11.2	12	1000	10	0.316	0.7012	0.275	0.197	283.2	658.8	0.15	20	
Setup	PS 4.5 B Sigma	375	11.3	12	20000	4.5	0.6	0.6637	0.288	0.283	368.1	1173.1	0.40	20	
	PS2 3C	3600	2.7	12	0	2	0.5	0.5	0.22	0.22	3600	2850	0.40	20	
	e														
	Lock Menus	-	Default Spe		Print Spe	-	674	e Geopho	Doloto	Geophone	Export Geop	hono	ort Geoph	000	
	LOCK Menus		Derault Spe	ics	Print Spe	cs	Sav	e Geophoi	ne 11 Delete	Geophone	Export Geop	none Imp	ort Geoph	one	

CH1:-R TEST PASS »----« Resistance 1693.8 0 Error -0.3% Tolerance ±2.0% NEXT

i)Seis

Portable BD3 Hardware Features:

- Bright, high-contrast screen readable in any light
- Internal battery for all-day use
- Designed rugged for outdoor use in the field

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In-Field Geophone Acceptance Testing eismic Portable Bird Dog 3

A Versatile In-Field Quality Control Tool:

- 32-bit ADC chip for lower noise and increased accuracy
- 8 Gbytes of Data Storage Expandable to 16
- GPS based time and location saved for every record
- Test data saved in non-volatile memory for later download and retrieval
- Connects to PC via Ethernet or optional Wi-Fi to download results for display, analysis, report generation and archival

Portable BD3 with Geophone Test option Includes:

- Three Channel Portable Bird Dog 3 Unit with:
 - Charger for Internal Battery
 - CAT5 Computer Interface Cable
- Portable BD3 Geophone QC kit with:
 - Geophone Wiring Harness:
 - Tests one 3-Component Geophone
 - Tests one 1-Component Geophones or Strings
- Available options include:
 - Hydrophone Test Option





Portable Bird Dog 3 with Geophone Test option Specifications

Performance			Physical				
A/D	32 bit sigma delta converter		# Channels	3			
Dynamic Range	126 dB		Temperature	-40°C to +85°C			
% THD	0.0012 %		Humidity	0 to 100%			
Crosstalk	Better than -125 dB		Size	11" x 5" x 3.25" (w/o handle)			
CMRR	> 100 dB		Weight	5 lbs (2.27 kg)			
Noise Floor (@2ms)	< 0.09 µV RMS		Data Storage	8GB CompactFlash (Internal)			
Input Impedance	200k Ohms						

