



Equipos y Consumibles de
Occidente, S.A. de C.V.

Av. López Mateos Nte. # 422
Col. Ladrón de Guevara
Guadalajara, Jal
C.P. 44650

Tel/Fax: 01(33) 36162021
Lada sin Costo 01 800 714 0539

GUADALAJARA, JALISCO A 13 DE MAYO DE 2015

INVITACION CI-IIEG-08-2015 "ADQUISICION DE ECOSONDA BATIMETRICA"

" PROPUESTA ECONOMICA "

INSTITUTO DE INFORMACION ESTADISTICA Y GEOGRAFICA DEL ESTADO DE JALISCO
PRESENTE

CANTIDAD	DESCRIPCION	SUBTOTAL
1	ECOSONDA MARCA HI-TARGET MODELO HD-370 DIGITAL	\$99,000.00
	IVA	\$15,840.00
	TOTAL	\$114,840.00
(CIENTO CATORCE MIL OCHOCIENTOS CUARENTA PESOS/100 M.N.)		

NUESTRA PROPUESTA DE VENTA CONSIDERA:

- 1.-TIEMPO DE ENTREGA INMEDIATA
- 2.-FORMA DE PAGO CREDITO 30 DIAS
- 3.-VIGENCIA DE COTIZACION 30 DIAS
- 4.-INCLUIMOS CAPACITACION SIN COSTO EN UNA SESION DE 6 HORAS , TAMBIEN
INCLUIMOS ASESORIA VIA TELEFONICA , INTERNET O FAX DURANTE LOS
SIGUIENTES 60 DIAS
- 6.-GARANTIA DE 12 MESES EN EQUIPO Y 3 EN ACCESORIOS
- 7.-NUESTRO NUMERO DE PROVEEDOR DEL GOBIERNO DEL ESTADO ES EL : P03406

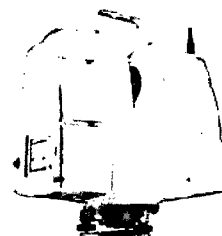
ATENTAMENTE


JOSE GUADALUPE LOPEZ GUTIERREZ
REPRESENTANTE LEGAL

Compe económicamente



SOKKIA



Leica
Geosystems



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INVITACION CI-IIEG-08-2015 "ADQUISICION DE ECOSONDA BATIMETRICA"
" PROPUESTA TECNICA "

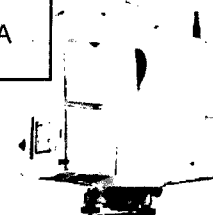
INSTITUTO DE INFORMACION ESTADISTICA Y GEOGRAFICA DEL ESTADO DE JALISCO
PRESENTE

CANTIDAD	DESCRIPCION
1	<p>ECOSONDA BATIMETRICA MARCA HI-TARGET MODELO HD-370 DIGITAL</p> <p>1.- NO NECESITA DE PAPEL, YA QUE CUENTA CON UN SISTEMA DE ALMACENAMIENTO PERMANENTE DE DATOS</p> <p>2.- EMULA SISTEMA OPERATIVO WINDOWS XP</p> <p>3.- CUENTA CON UNA PANTALLA DE ALTA RESOLUCION COMPLETAMENTE LEGIBLE EN EL CAMPO DE TRABAJO</p> <p>4.- CUENTA CON PROTECCION CONTRA AGUA, POLVO Y ROTURAS</p> <p>PRECISION:</p> <p>1.- LA ULTIMA CURVA TVG (variación de la ganancia en función del tiempo) PROVEE UN EFECTO DE GANANCIA PARA QUE LOS CONTROLES DE TRANSMISION DEL SONAR SE ATENUEN</p> <p>2.- CUENTA CON AVANZADA TECNOLOGIA DE RASTREO Y DE PULSOS QUE GARANTIZA UNA ALTA PRECISION BAJO EL AGUA</p> <p>EFICIENCIA</p> <p>1.- TIENE INSTALADO UNA FUNCION DE MUESTREO DE 30 VECES POR SEGUNDO LO CUAL MEJORA LA EFICIENCIA DE LA ECOSONDA Y DEL ECODIAGRAMA HACIENDOLO MÁS SUAVE Y PRECISO</p> <p>2.- SU FRECUENCIA ES AJUSTABLE POR LO QUE PUEDE SER UTILIZADA CON DIFERENTES TIPOS DE TRANSDUCTORES</p> <p>ESTABILIDAD</p> <p>1.- SU SISTEMA DE MAPEADO RAPIDO PROTEGE AL DISCO DE MEMORIA CONTRA PROBABLES VIRUS</p> <p>2.- CUENTA CON UN DOBLE DISCO DE ALMACENAMIENTO Y DOBLE SISTEMA DE PROTECCION Y ACCESO PARA RECUPERACION DEL SISTEMA</p>

completa técnicamente.



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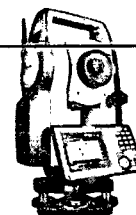
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CONFIABILIDAD

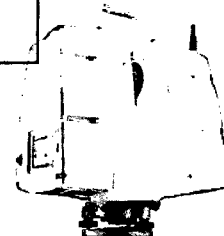
- 1.- SU SOFTWARE DE OPERACIÓN PUEDE TRABAJAR CON UN GPS, TAMBIEN CUENTA CON UN INDICADOR DE ALTITUD Y UN MAPA DE ONDAS QUE PUEDE SER UTILIZADO CON CUALQUIER MARCA

ESPECIFICACIONES TECNICAS

- 1.- FRECUENCIA DE TRABAJO: 200 KHz,
- 2.- EN CUANTO A LA TRANSMISION DE POTENCIA, MAXIMA CON QUE PUEDE OPERAR ES DE 500W
- 3.- EL RANGO DE DETECCION ES DE 0.3 A 600 Mts.
- 4.- SU PRECISION ES DE $\pm 10\text{mm} + 0.1\% h$, Y LA RESOLUCION ES DE 1 cm.
- 5.- PRECISION DEL RANGO DE AJUSTE ES DE 0.0m A 15m
- 6.- RANGO DE VELOCIDAD DEL SONIDO: 1370 a 1700m/s Y LA SENSIBILIDAD ES DE 1m/s
- 7.- CUENTA CON ESTANDARES INDUSTRIALES DE ALTA VELOCIDAD, EL CPU CON UNA FRECUENCIA DE 1.6GHz BAJO CONSUMO DE ENERGIA
- 8.- INCLUYE ESTANDARES INDUSTRIALES DE MEMORIA DDR 2 DE (RAM) : 1G
- 9.- TASA DE MUESTREO 30 VECES POR SEGUNDO (DATOS/SEGUNDO)
- 10.- INCLUYE UNA TARJETA DE ALMACENAMIENTO DE 4GB
- 11.- LOS PUERTOS SERIALES DE SALIDA DE DATOS PUEDEN SIMULAR VARIOS TIPOS DE FORMATOS Y PUEDEN TENER UNA TASA DE BAUDIOS AJUSTABLES
- 12.- TIENE UNA PANTALLA DE 12" DE ALTO BRILLO, CON UNA RESOLUCION DE 1024X768 , 100 cd/m²
- 13.- CUENTA CON 2 PUERTOS SERIALES RS-232, 3 PUERTOS USB, UNA SALIDA DE POTENCIA DC/AC (PUERTO DE PODER) Y 1 PUERTO TRANSDUCTOR
- 14.- PUEDE OPERAR CON ENERGIA DE 12V O ALTERNA 110/220V, SU
- 15.- CONSUMO ES DE 20W
- 16.- OPERA EN TEMPERATURAS DE -30 A + 60°C Y ES A PRUEBA DE AGUA Y RESISTENTE A LOS IMPACTOS



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Venta-Servicio-Reparación-Asesoría-Capacitación

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www.ecomexico.net



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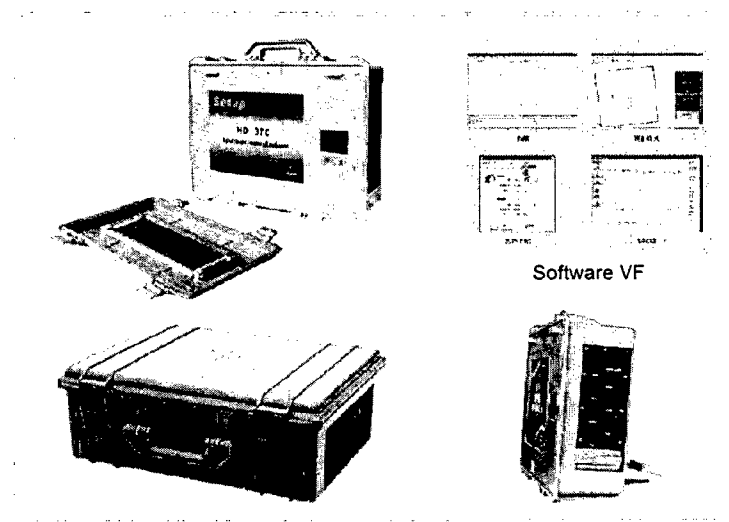
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17.- MIDE 440X341X164mm

18.- PESO APROXIMADO 9Kgs.

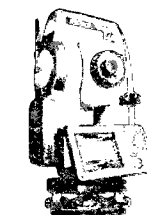
COMPONENTES INCLUIDOS:

- 1 ECOSONDA DIGITAL
- 1 MOUSE OPTICO
- 1 MEMORIA USB INDUSTRIAL DE 2 GB
- 1 CABLE HI-TARGET MULTI CONTACTO 3 USB
- 1 MASTIL METALICO DE 2 SECCIONES Y 1.95 MTS DE ALTURA
- 1 CABLE DUALCON 2 CONECTORES DE PUERTOS SERIALES
- 1 TRANSDUCTOR CON CABLE DE 9 YARDAS
- 1 CARGADOR HI- TARGET
- 1 ESTUCHE METALICO DE 58X39X22 PARA LA ECOSONDA
- 1 ESTUCHE METALICO DE 108X21X26 PARA TRANSDUCTOR Y MASTIL
- 1 CABLE LARGO CON CONEXIÓN SERIAL-HEMBRA Y SERIAL MACHO
- 1 CABLE DE ENERGIA CON CAIMANES
- 1 MONITOR VGA
- 1 TECLADO USB



ATENTAMENTE

JOSE GUADALUPE LOPEZ GUTIERREZ



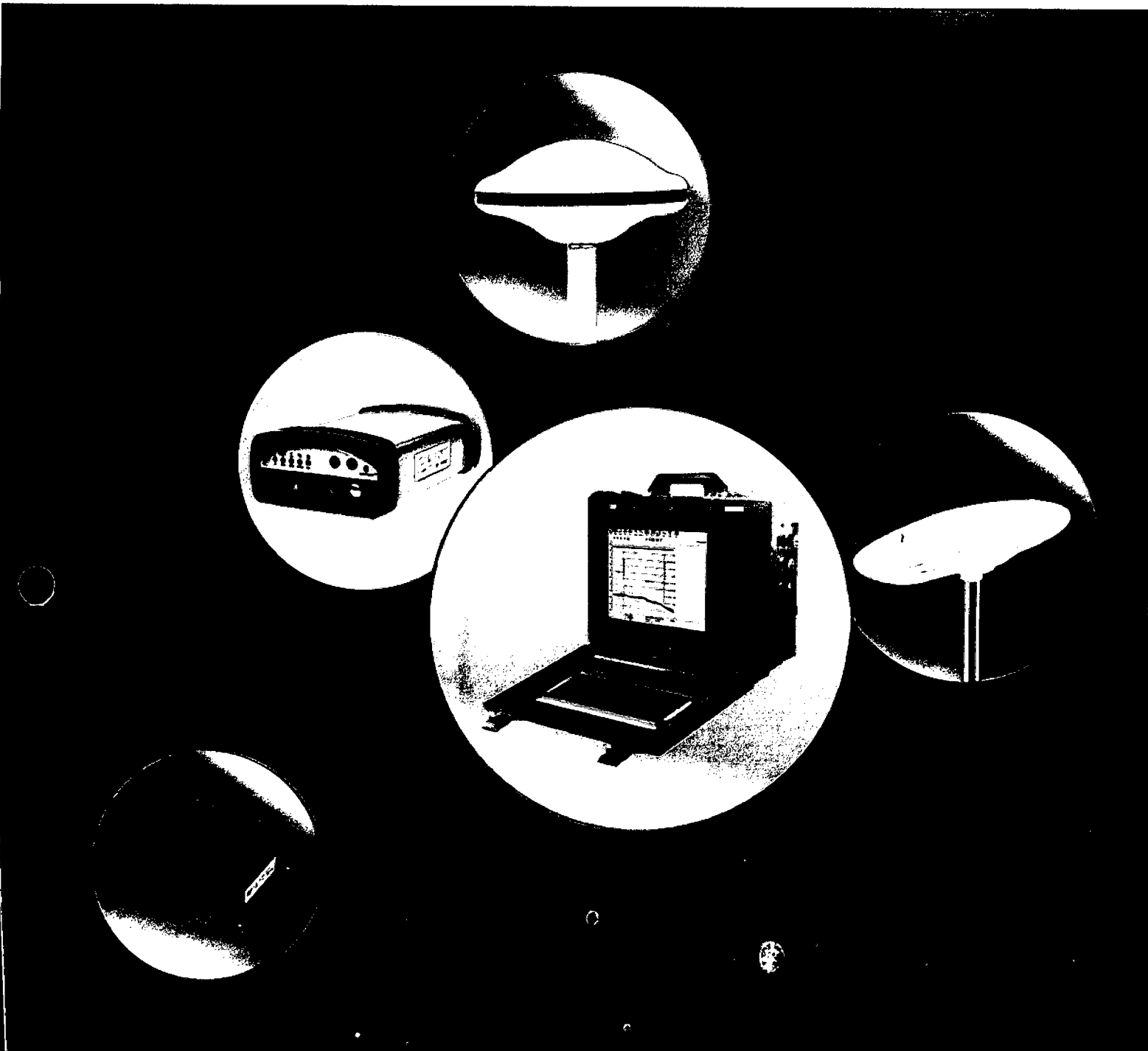
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Hi-Target

Marine Surveying Product Categories



Hi-Target surveying Instrument Co., Ltd, established in 1999, engaging in marine echosounder technology for more than 10 years, it launched the first echsounder in China in 1999, has profound hydrographic suvery technology experience which always made the surpassed, hi-accuracy, reliable, stable echosounder.

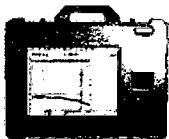


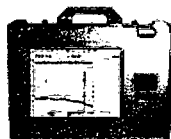






HI-TARGET This brochure is just for reference. Any revision is subject to our final confirmation

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HI-TARGET

Hi-Target the 3rd Generation Digital Echosounder Series

Digital Echosounder	HD370 Single Frequency	HD370A Single Frequency (Adjustable)	HD380 Dual Frequency	HD390 Multi-Channel
Image				
Working Frequency	200 KHZ	100-750KHZ (Adjustable)	High frequency 100-750KHZ (Adjustable) Low frequency 10-50KHZ (Adjustable)	150~750KHZ (Adjustable)
Transmission Power	500W (200KHZ transducer)	500W (200KHZ transducer)	500W (200KHZ High frequency Channel) 1000W (20KHZ Low frequency Channel)	500W (200KHZ transducer)
Bathymetric Range	0.3m-600m		0.3m-600m (High frequency) 0.3m-2000m (Low frequency)	0.3~600m (Under Transducer)
Bathymetric Accuracy	$\pm 10\text{mm} + 0.1\%h$, definition: 1cm		$\pm 10\text{mm} + 0.1\%h$ definition: 1cm	$\pm 10\text{mm} + 0.1\%h$
Draft Range	0.0m-15m			
Adjustment Range of Sound Velocity	1370-1700m/s, definition 1m/s			
CPU	Industrial embedded high speed low power CPU, frequency : 1.6GHZ			
Memory	1G			
Max.depth Collection Rate	30 times/second	30 times/second	30 times/second	25 times/second
Internal Storage Device	4G CF card storage (can be customized)	4G CF card storage (can be customized)	4G CF card storage (can be customized)	4G CF card storage (can be customized)
LCD Display	12 inches, definition 1024X768, 1000cd/ m2	12 inches, definition 1024X768, 1000cd/ m2	12 inches, definition 1024X768, 1000cd/ m2	12 inches, definition 1024X768, 1000cd/ m2
External Ports	Two RS-232 ports, three USB ports, one DC power port, two TX ports (for transducer)	Two RS-232 ports, three USB ports, one DC power port, two TX ports (for transducer)	Two RS-232 ports, three USB ports, one DC power port, two TX ports (for transducer)	Two RS-232 ports, three USB ports, one DC power port, two TX ports (for transducer)
Power Supply	DC 10~14V / AC 220V	DC 10~14V / AC 220V	DC 10~14V / AC 220V	DC 10~14V / AC 220V
Power Consumption	20W	20W	20W	20W
Working Temperature	-30°C~60°C	-30°C~60°C	-30°C~60°C	-30°C~60°C
Dimension	440mmL X 341mmW X 164mmH	440mmL X 341mmW X 164mmH	440mmL X 341mmW X 164mmH	440mmL X 341mmW X 164mmH
Weight	9kg	9kg	9kg	9kg
Transducer				

Key Benefits

- Easy to compatibilities with different brands of GPS which is NMEA output data format(Topcon, Leica, Trimble), compass, surge compensator
- Easy to upgrade of frequency adjustable version HD370A, and easy to compatibilities with different brand trasducers
- Field work and post processing software already in the whole package, adapt latest marine technology
- Paperless recording, high resolution for permanent data storage
- Windows XP Operation
- High-resolution screen with touch mouse area
- High quality ABS+ Synthetic PC material Mainframe, not easy to be corroded, strong serial ports
- User friendly trackball Mouse, you can move the cursor to any place by moving the ball when the boat is shaking
- Lighter weight
- Shock resistance, waterproof, dustproof, portable

HD370/370A/380/390 Performance Advantages

Accuracy

A

Advanced VF Frequency adjustable technology lower the buzzer noise caused by the transducer, eases interference echo.

Latest designed TVG curve provides perfect Gain Control for Sonar transmission attenuation.

Advanced bottom digitizing capabilities and pulse width selection technology assure the accuracy of underwater survey.

Efficiency

B

30 Hz water depth collection rate, improve sounder efficiency and provide echogram more detailed and precise.

Adjustable frequency for various transducer, expand the scope of application.

Stable Performance

C

Embedded windows XP operation system, stable operation.

Adopt unique "Fast Mapping Failback" technology for protection from virus

Dual storage disk, dual operation system, one key ghost.

High strength ABS+PC material cover, waterproof, shock resistance.

Convenience

D

Range is automatically and manually.

Digital image resolution technology, display like falls and record, easy to reply and print.

Portable design, easy to carry.

1024X768 dpi high-resolution, high-brightness LCD display, high definition in the sun.

Compatibility

E

Easy to configure with various transducer.

Internal two-in-one software process marine GPS and echo-sounder data, able to work with any GPS, attitude indicator and surge detector and so on.

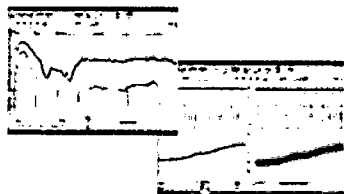
Able to connect to external VGA display, support multi display terminal.

Able to connect USB keyboard and mouse.

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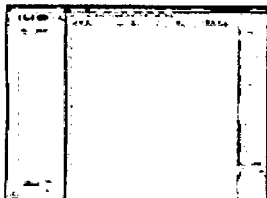
Software

Hi-Target developed the third generation of echosounder is installed the latest Hi-Target depth sounding software and marine positioning software, powerful function and simple operation, would be your best partner in survey project.



Hi-Target Depth Sounding Software

Hi-Target Depth Sounding Software adopts entirely automatic design, setting parameter in advance, only boot-strap can start surveying. Sounder data is intuitively displayed by figure. Echogram is saved in digital encrypted files, data saving in long time storage, replay, inquiry and print.



Hi-Target Navigation Sounding Software

Combining of position and Depth Sounding function, In virtue of this software, only require GPS receiver and power supply system, can Hi-Target the third generation of echosounder implement; high precised positioning, echo sound surveying, increasing efficiency, and reducing cost of system configuration.



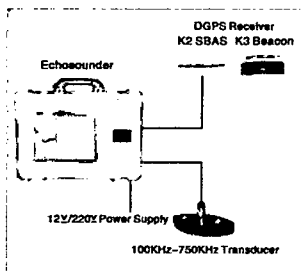
Software Parameter & Environment Setting

Hi-Target Sounding and Positioning software is simple for setting. One interface for you to set sea gauge, sound velocity, transmission power, gain and frequency adjustment parameter, simple and intuitive.

Application Mode

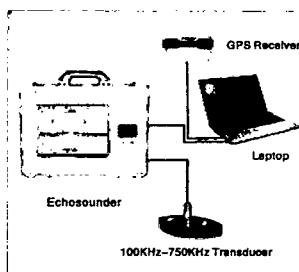
Ideal for reservoir, river, lake and ocean surveying, and marine construction engineering surveying

Working Station Echoing Mode



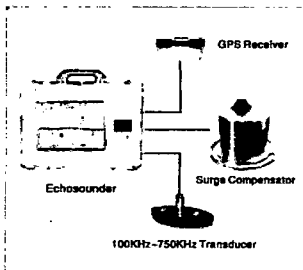
Hi-Target third generation of the echosounder is integrated with high stable industrial controlling computer, echosounder, depth measuring software and marine surveying software. Only need to connect to DGPS receiver and 12V DC battery can launch survey work, greatly simply water depth survey work.

Combined Echoing Mode



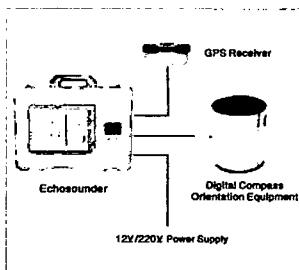
Hi-Target third generation of the echosounder also carries out working mode with echosounder + laptop + GPS + battery, satisfying customer's traditional surveying requirement.

Precise Echoing Mode



Hi-Target third generation of the echosounder can connect to surge compensator, for correcting error which evocable from surge in water depth surveying, to increase surveying precision.

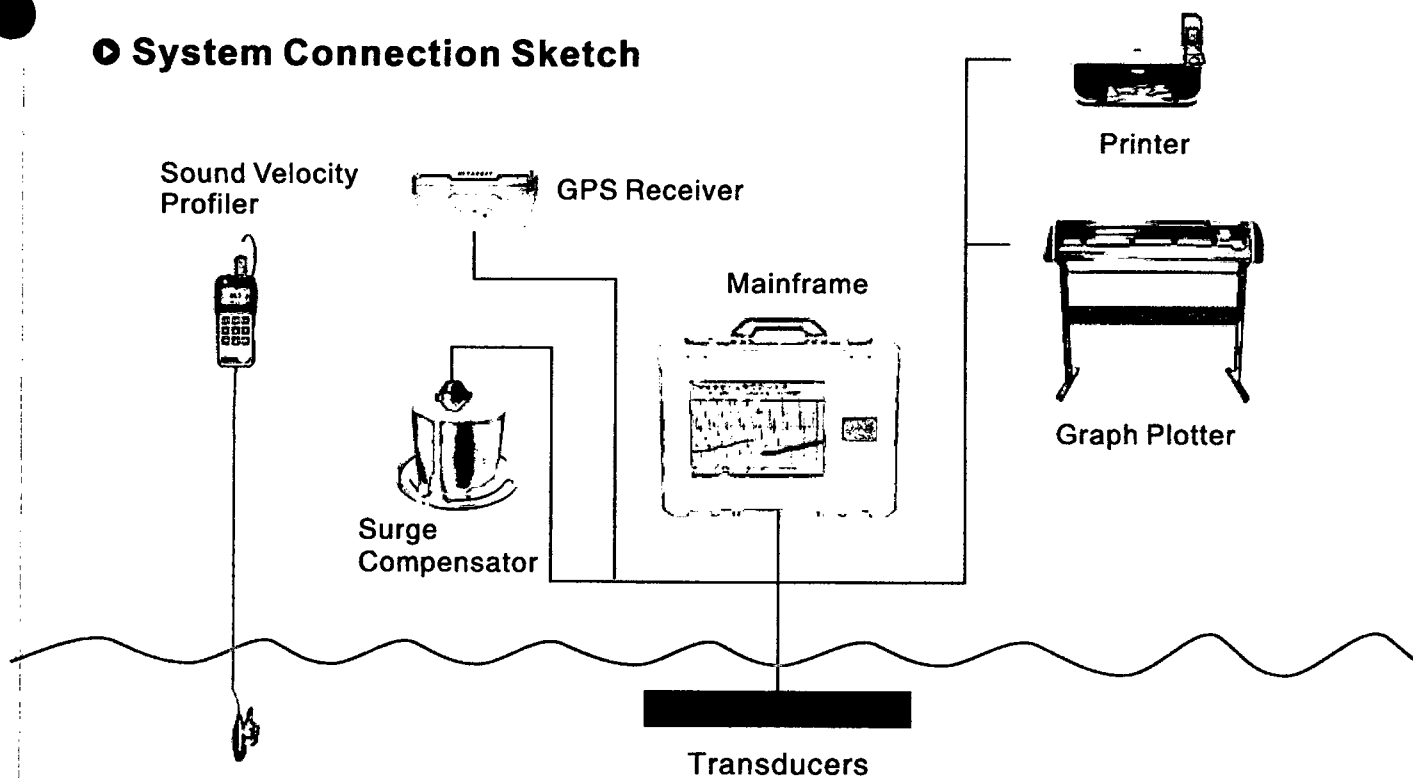
Construction Positioning Surveying Mode



Hi-Target third generation of the echosounder is not only a set of digital echosounder, but also a set of stable Industrial Controlling Computer. To effectively solve unstable AC power supply on board, it's available for direct power supplying in 12V DC, connecting GPS receiver and processing construction.

HD390 Application Mode

System Connection Sketch



Multi-Transducer Connection Sketch

