



SeaBat 7125 SV

Quick Reference Guide*



SeaBat 7125 SV Sonar System

The SeaBat 7125 SV multibeam echosounder system for small surface vessels:

- Depth rating: 50m
- Frequency: 400kHz or 400/200kHz
- Ping rate: Up to 50Hz (range dependent)
- Range: Up to 750m (200kHz)
- Power requirements: 100-230VAC, 50/60Hz, 1000W max.
- Operating temperature wet end: -2° to +35°
- Operating temperature dry end: -15° to +45°

Projector Units

TC 2160 400kHz frequency	
Height	77mm $\pm$ 0.7mm
Width	62mm $\pm$ 0.2mm
Depth	285mm $\pm$ 0.3mm
Weight in air	2.75kg $\pm$ 0.5kg

TC 2163 200kHz frequency	
Height	115mm $\pm$ 0.1mm
Width	100mm $\pm$ 0.2mm
Depth	280mm $\pm$ 0.4mm
Weight in air	7.5kg $\pm$ 0.5kg

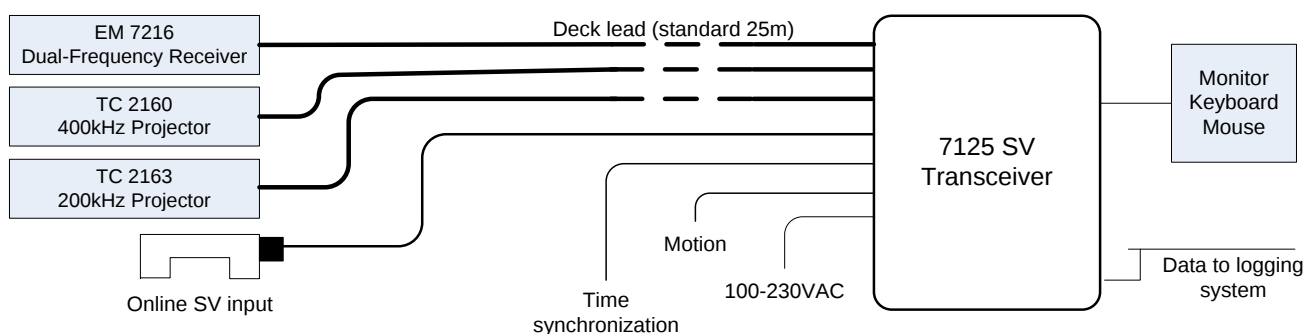
Receiver Unit

EM 7216 dual-frequency	
Height	102.0mm $\pm$ 0.15mm
Width	496.0mm $\pm$ 0.3mm
Depth	137.5mm $\pm$ 0.5mm
Weight in air	10.7kg $\pm$ 1.0kg

25m Standard Cables

Projector to Transceiver	
Bend radius	73mm (minimum)
Receiver to Transceiver	
Bend radius	127mm (minimum)

System Block Diagram



* This quick reference guide is not intended as a substitute for the Operator's Manual.



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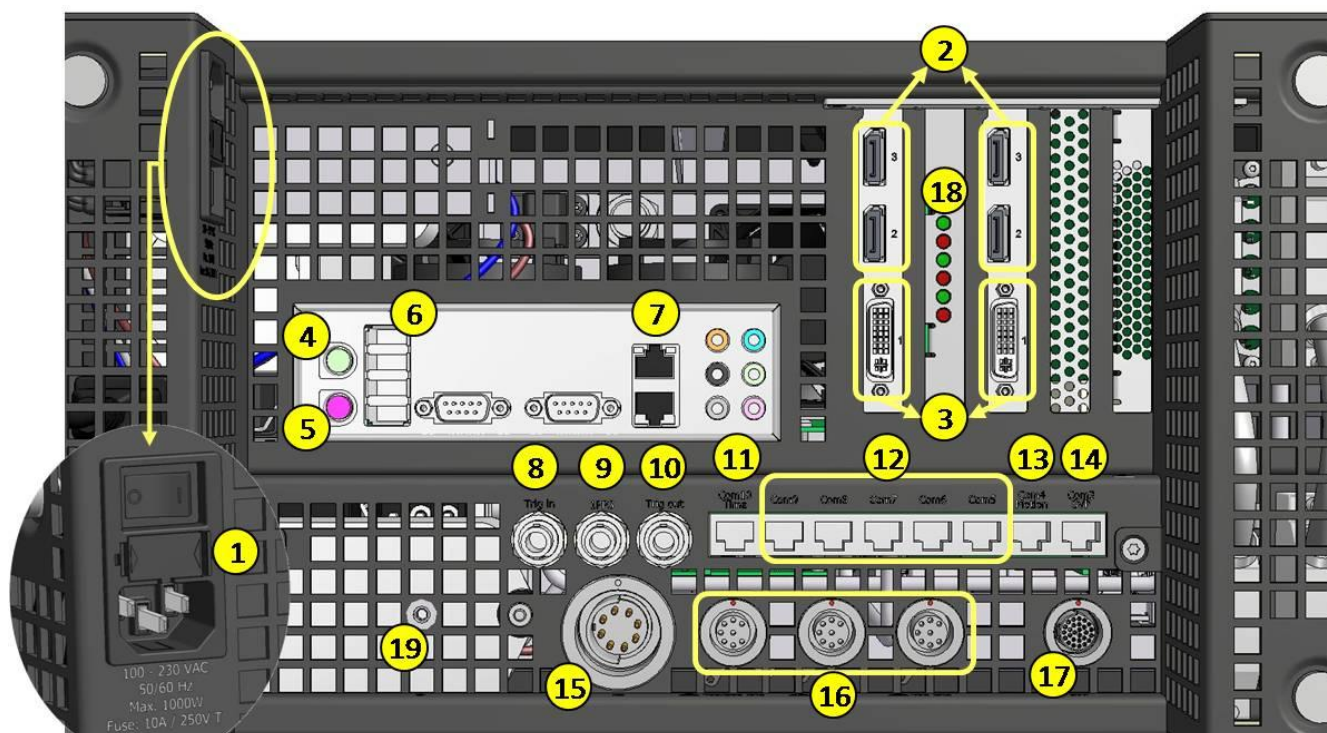


Transceiver

Sonar processor and interface functions combined into one transceiver unit:

Transceiver	
Height	221.5mm
Width	478.0mm
Depth	556.8mm
Weight	20.5kg (excl. cables)

Transceiver Rear Panel Connections



1) Power input and switch	8) Trigger in	15) Receiver connection
2) Monitor output (4 display ports)	9) 1PPS input	16) Projector connections ⚠
3) Monitor output (2 DVI ports)	10) Trigger out	17) Main SVP serial port with power
4) Mouse	11) Time marker serial port	18) Diagnostic LEDs
5) Keyboard	12) Serial ports with LED (x5)	19) Protective earth screw for equipotential connection
6) USB (x4)	13) Motion sensor serial port	
7) Ethernet (x2)	14) Alternate SVP serial port	

Personal Safety



The projector connections must be handled with great care as the output power voltage is hazardous to human safety.

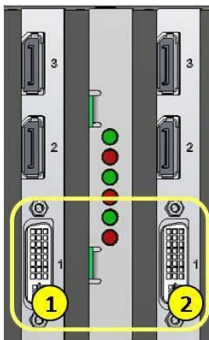
Do **not** pull out the cables with power on.



Transceiver to Monitor Connections

The monitor connections to the transceiver **MUST** be done as described below. Connections are achieved using DVI-I or display port connectors. Monitors can be cloned from within Windows®, although it is possible to clone a display port output by first converting to DVI-D and then using a DVI-D splitter (for details on cloning monitors, see the Operator's Manual).

DVI Ports

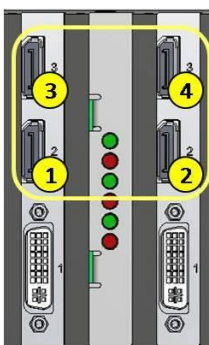


DVI and Analog Monitor Connections

One monitor	Use port 1
Two monitors	Use ports 1 and 2

Note! For analog monitors, first add a DVI to analog adaptor to the DVI-I connector.

Display Ports



Display Port Connections

One monitor	Use port 1
Two monitors	Use ports 1 and 2
Three monitors	Use ports 1, 2, and 3
Four monitors	Use all 4 ports

Note! The display ports cannot be converted to analog monitors; however, adaptors are supplied to convert to DVI-D signals. (Note that DVI-D and DVI-I connectors are slightly different.)

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RESON A/S
Denmark
Tel: +45 4738 0022
E-mail: reson@reson.dk

RESON OFFSHORE LTD.
Scotland, U.K.
Tel: +44 1224 709 900
E-mail: sales@reson.co.uk

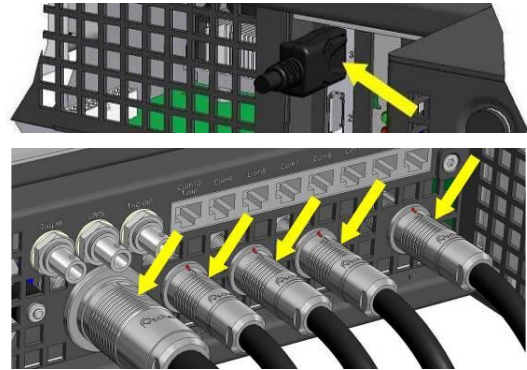
RESON Inc.
USA
Tel: +1 805 964-6260
E-mail: sales@reson.com

RESON GmbH
Germany
Tel: +49 431 720 7180
E-mail: reson@reson-gmbh.de

RESON B.V.
The Netherlands
Tel: +31 (0)10 245 1500
E-mail: info@reson.nl

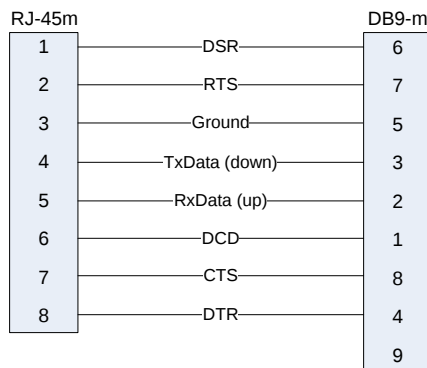
Equipment Safety

- When removing the **display port cable** from the transceiver, press the button (at the arrow) on the connector to disconnect.
- To disconnect the **receiver/projector/SVP cable** from the transceiver, hold on the groove part of the connector (at the arrows) and pull gently outwards.
- Do **not** pull directly on the cords, as this will damage both cables and transceiver.



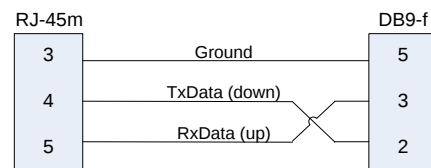
Serial Data Input

- The SeaBat 7125 SV uses RJ-45 connectors as inputs for COM3 to COM10. Four **RJ-45 to DB9-m adaptors** are supplied to allow existing DB9 interface cables.

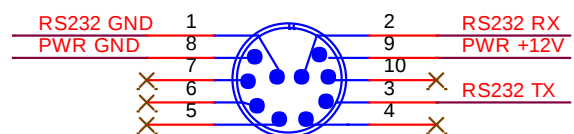
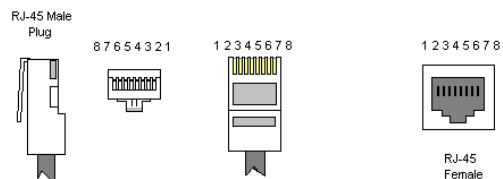


- The SVP data input is either at the RJ-45 COM3 connection **OR** the 10-pin Fischer connection (marked 17) which also provides power for the SVP. The pinout of the Fischer connector at the transceiver is as shown. For wiring to the SVP, see the appropriate product manual.

- To connect **directly from the RJ-45 connector to a DTE device** bypassing the adaptor the following connections can be used.



- The layout of a RJ-45 connector is as shown.



Fischer connector reference: S105A062-130

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RESON A/S
Denmark
Tel: +45 4738 0022
E-mail: reson@reson.dk

RESON OFFSHORE LTD.
Scotland, U.K.
Tel: +44 1224 709 900
E-mail: sales@reson.co.uk

RESON Inc.
USA
Tel: +1 805 964-6260
E-mail: sales@reson.com

RESON GmbH
Germany
Tel: +49 431 720 7180
E-mail: reson@reson-gmbh.de

RESON B.V.
The Netherlands
Tel: +31 (0)10 245 1500
E-mail: info@reson.nl