
Bottom Line Sidefinder Scout 2 Manual

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in fig. 3b, the integrated circuit u1 compares the echo signals which have had their magnitudes or amplitudes normalized by the variable gain amplifier which includes the integrated circuit u3 to a predetermined threshold voltage defined by resistors r19, r20, and r21. in a conventional system, the threshold voltage is selected to be just above the ambient background noise level. (a conventional system typically has about 60 db noise between the input of the variable gain amplifier u3 and the threshold voltage). in a side-looking system, a voltage near the threshold produces too many false detections of the bottom and therefore may cause the user to miss fish. a voltage just above the ambient noise level produces too few false detections of the bottom and produces too many false detections of fish. according to one variation, the threshold is reduced by a constant amount up to a level which is just above the ambient noise level and then is increased by the same constant amount. however, this has the disadvantage that the transducer cannot "see" an object if it is some distance from the transducer because the object is too weak to make it above the threshold voltage. in fig. 4, the integrated circuit u1 provides a normalized frequency spectrum on line 62 which may be displayed on a conventional display. in a conventional down-looking system, this kind of display would generally be blank. in a side-looking system, there is a lot of useful information in the frequency spectrum. a noise level is displayed in the form of a histogram along with echoes representing the frequency spectrum, and the level of fish in the water is displayed in the form of a histogram as a curve in the frequency spectrum. this curve has a maximum where the echo signals are received and corresponds to the noise level. the pulse strength is displayed as a function of frequency along with the echo strength which is used for calibration of the transducer. (in a side-looking system, a high pulse strength is the result of a weak fish, not of a strong ambient noise level which is two orders of magnitude larger). other characteristics of the frequency spectrum may also be presented, for example an echo shape which may be used for classification of the detected objects. since the length of the sonic beam is much longer in a side-looking system than in a down-looking system, only a portion of the frequency spectrum is used. only those frequencies which correspond to the region of interest in the water (typically about half of the sounder's range) are analyzed. therefore only a portion of the frequency spectrum is processed, and detailed calculations of fish sizes, fish numbers, and so on are also limited by the length of the sonic beam. in a side-looking system, a transducer will typically be set to detect objects with a frequency spectrum between 25 khz and 400 khz.

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in fig. 5, the integrated circuit u1 has an internal microprocessor which controls timing and other operations of the system including the operations illustrated in figs. 3a through 3b. the internal microprocessor selects the threshold, and calculates the variable conversion gains for variables v1 and v2. these calculations are made by analyzing the echo signals received at the inputs of the variable gain amplifier u3. a conventional down-looking system using a single transducer often uses a threshold of about 60 db up to a point which is just below the ambient background noise level. smart phone integration is now common. if you have an android, then you'll be able to connect to your phone and monitor the fish around you. you can also have the sounder notify you of fish activity. then via the smartphone app, you can control the sounder remotely and change settings. this is a very good feature. you can also use the smart phone app to enter the current water depth and tune the unit to match. then you can add a live view of the water around you. this is very useful, especially when fishing and the sounder is in the water. having a good sonar unit is very important. with the advent of the smart phone, integration has improved greatly. you can also control the sounder directly from your phone. if you want the best boat or kayak sounder, then i'll highly recommend that you consider buying this one. it is inexpensive, offers good range, depth and quality. it has great battery life. it's a great all around unit. that concludes my review of the sidefinder scout 2. if you need a great sonar unit, this is the sounder to look for. you can find it online or at your local boating shop for a very good price. recommended. 5ec8ef588b

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