

## TIME VARIABLE GAIN

### **New Feature!**

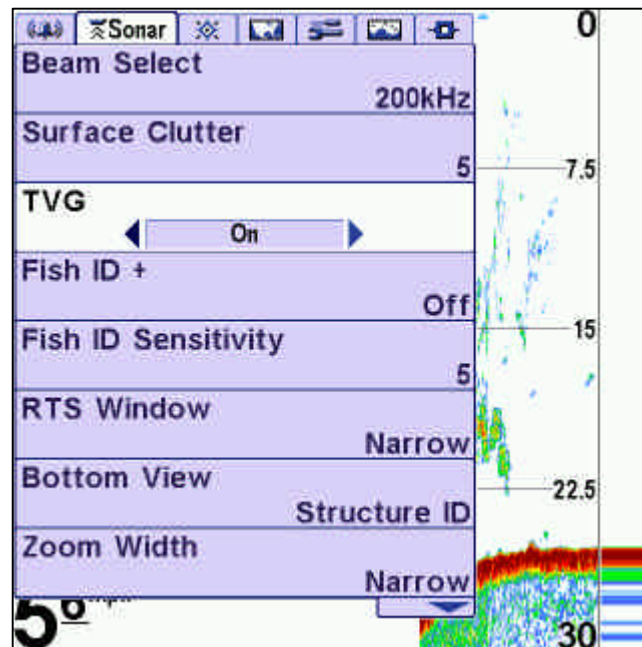
Software version 4.51 has an exciting new feature that improves traditional downward looking sonar. The new software allows Time Variable Gain(TVG) to be manually turned on or off. This is a new exclusive Humminbird feature since the competition doesn't use TVG. The default setting is TVG On.

### **What is TVG?**

As the SONAR signal travels through water, power dissipates or is reduced, therefore, targets at longer distances have a weaker return. A 10lb fish in 5ft of water will show a larger arch(return more energy)than the same sized fish in 20ft of water. With our current software the TVG will make adjustments to the returns to compensate for the different depths and both returns will have the same size arch or return. The downside of TVG is that to accomplish the compensation there is some reduction in overall signal strength capability.

### **How do I change it?**

To access the new feature, verify the unit is in advanced mode then press the menu button twice and navigate to the Sonar tab. See Illustration below:



### **Why do I want this?**

This allows the fisherman the ability to decide if he wants less clutter and the confidence a large arch equals a large fish(TVG On) or more detail, more arches, and better jig tracking. Humminbird downward looking sonar is now better than the competition! See for yourself.

### STRENGTHS OF TVG ON:

- Great shallow water performance
- Compensating for differences in strengths of returns due to differences in depth(big arch=big fish no matter what depth)

### STRENGTHS OF TVG OFF

- Incredible detail of structure and fish in the water
- Excellent for tracking jigs

Below are some examples of screenshots with TVG on(left) and off(right):

