Extreme IR Sensor Bar –V2

This is our new Extreme IR Sensor Bar - V2. You get two sensor bars in one package, so you don't have to worry about getting the wrong sensor bar for your screen size. With this sensor bar, you can use your light guns with screen sizes ranging from 10 inches all the way up to 100 inches.
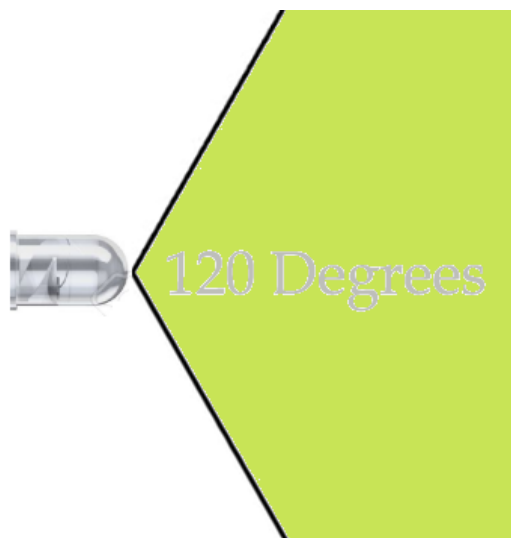
And yes, before you ask, we are making a black plastic case that fits these new Extreme IR Sensor Bars! The plastic case for this new sensor bars is coming soon (sold separately).

Sensor Bar Dimensions

Length: 11.55 inches, Height: 0.25 inches, Depth: 0.5 inches

120 Degree Illumination Angle

This sensor bar has an astounding 120 Degree illumination angle. After you mount this IR sensor bar on top of your Monitor, TV, or Projector, it will shine all the way to the floor. You can sit on the ground and aim your gun up towards the screen and it will work. You could even stand on a ladder, looking down at the screen and your guns will work. You can even use your guns way off to the left or right of the screen and your guns will work. This feature is a game changer!

Two Sensor Bars in One

There is a switch so that you can set your sensor bar as a Super IR sensor bar or Regular IR sensor bar:

The Super setting works best with Screen Sizes 32 inches, up to 100 inches (and possibly larger, but this can depend on a lot of factors. We only officially support screen sizes up to 100 inches with this sensor bar). As you can see, the outer LEDs are turned on when the switch is set to Super. The illumination is higher with the Super setting. Having higher illumination enables support for greater distances from the screen:
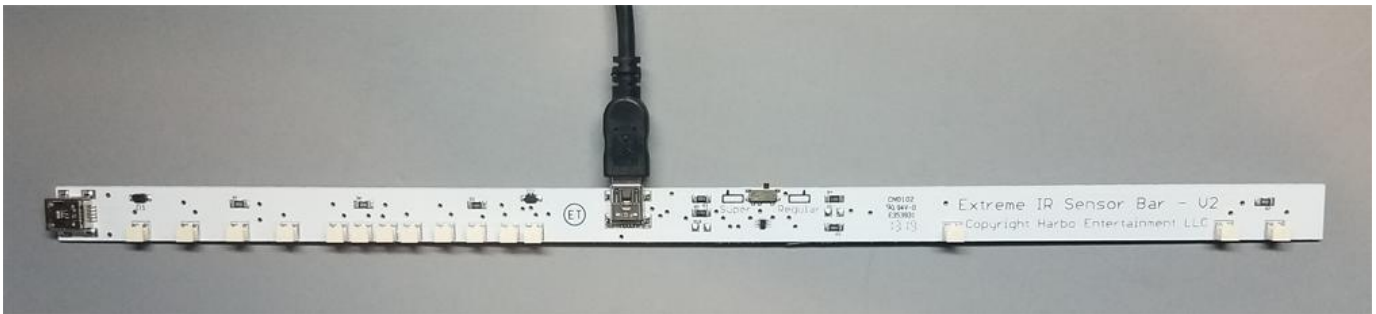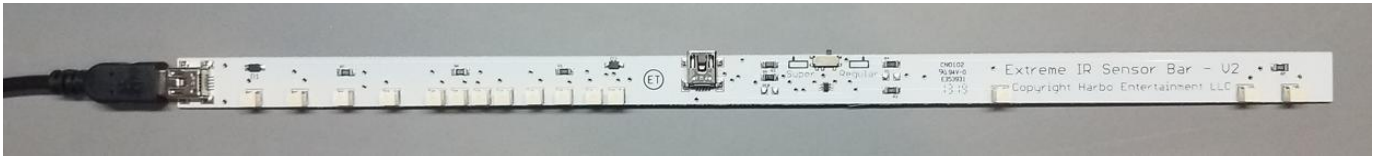

The Regular setting works best with Screen Sizes 10 inches, up to 40 inches (and possibly larger, why not give it a try). When you set it to Regular, the inner LEDs are turned on. The illumination isn't as high with the Regular setting, because you will be using the guns closer to the screen, so the illumination doesn't need to be as high. Also, with the Regular setting, the LEDs are closer together. This allows you to use your guns closer to the screen then you otherwise could:

Power Cable Connections

There are 2 different ways you can connect this Extreme IR sensor bar to power it. You can connect the power cable to the left USB port, or the back USB port. If you don't want the cable coming out of the left side of the sensor bar, you can connect it to the back port. Having options like this makes this sensor bar compatible with just about any configuration you might have. Connecting power to both ports at the same time won't damage anything, but it is also pointless. This sensor bar has reverse current protection, so your sensor bar and computer are protected no matter how it's connected. Here are the two different ways to connect power (these images show the top of the sensor bar with the power cord connected):

The opposite end of the power cable needs to be plugged into your computer's USB port, or you can use a 5v USB wall wart. Some TVs also have a USB port on them that might work. You would need to refer to your TVs user manual to see if it's alright to use the TVs USB port for power. It may depend on your TV manufacturer, whether you can use that port for powering this sensor bar. We recommend using one of these two options (Computer or Wall Wart), and not using your TVs USB port:
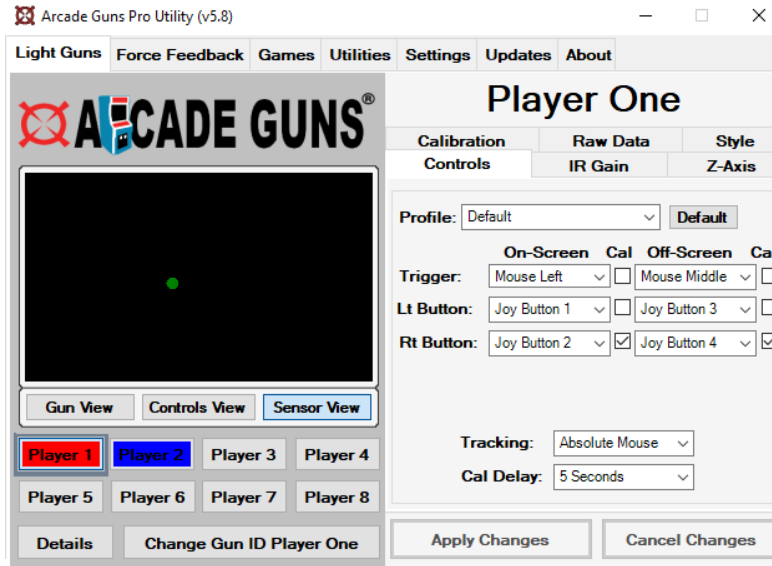

USB ports typically supply volages in the range of 4.75v to 5.25v. This sensor bar can handle these voltage ranges without any issues. The LEDs that we use on this sensor bar are very high quality and could even handle higher voltages then this, but it's not advised. Suppying more power produces more heat, and it doesn't improved your light gun's tracking when applying more voltage.

Number of Players

You can only use one sensor bar per screen, which will support up to 8 light guns. Most games only support up to 3 light guns. We haven't found a gun game that support more than this. If you find a game that support more than 3 players, our software will supports up to 8 light guns on a single computer. Each light gun is assigned a unique ID in our software so that your computer can distinguish which one is which. This Extreme IR sensor bar makes it easier to have more players use a single screen. The 120 degree illumination angle makes it easier for players to spread out from each other and play from the same screen.

Sensor Bar Compatibility

This sensor bar is compatible with all Aimtrak type light guns. Light guns sold by Arcade Guns and Ultimarc use Aimtrak sensors, so any of these types of guns are compatible. This sensor bar uses Infrared (IR) Light for gun tracking. IR isn't visible to the naked eye. Some cameras can see infrared light glow, while other cannot. Camera's that don't see infrared light have a visible light band pass filter under the lens. When you plug this sensor bar into a USB port or Wall Wart, it will appear as if nothing is happening. This is completely normal. This sensor bar uses the 5v that comes from a USB port to power the LEDs. No data is transmitted from this sensor bar to your computer, which means your computer won't know it is plugged in. You can verify the sensor bar is working by using our software, or you can try using a digital camera or smart phone. Make sure the sensor bar is mounted on top of your screen and plugged into a USB port for power. You can use our software, select Sensor View for any gun, and then point that gun at the screen. You should see a dot move in the Sensor View window in our software:

Distance from Screen

With any Aimtrak type light guns, you still need to be a minimum distance from the screen for you guns to track properly. The larger the screen size, the further away from the screen you need to be. Aimtrak is just like any camera. If you are taking a picture of large object, in order to get that whole object in the frame, you need to move further way from that object to get the full picture. For Aimtrak modules to track properly you need to be at least X number of feet away from the screen. X can vary depending on lots of different factors. If you mount this sensor bar on top of a 50" TV, you might need to be 5 or more feet away from the screen for your guns to track properly. You could also use your guns further away from the screen, like sitting on your couch. Maximum distance with the Super setting is roughly 12 to 14 feet away from the screen. With the Regular setting, maximum distance is around 5 to 7 feet.

Mounting the Sensor Bar

In general, mounting this sensor bar centered on top of your TV/Monitor/Projector works best. But there are some scenarios where you might get better gun tracking if it's off center, to the left or right. With large projectors for example, tracking seems to work better if the sensor bar is left of center. This has to do with the fact that a 100 inch projector screen requires you to be 9+ feet away from the screen to work, and the further away from the screen you go, the Aimtrak camera tends to aim a little more left. It kind of depends on your light guns and screen size. But one thing is certain; you must mount it on top of your screen. Aimtrak doesn't support mounting sensor bars at the bottom of the screen or vertical on sides of a screen. You also cannot mount the sensor bar upside down or the guns will not work!