

## Vehicle lighting setup manual

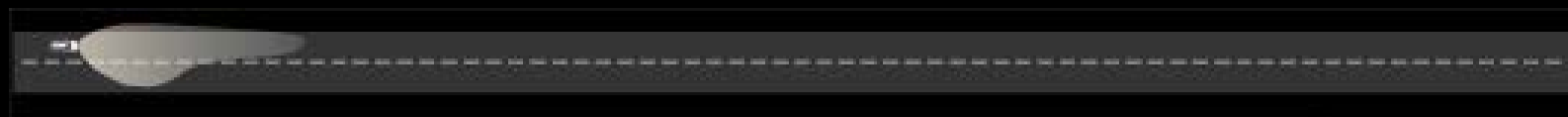
When setting up your vehicle with a shiny new set of Xray Vision driving lights, it is well worth considering how and where you will be using your new lights in order to choose the right setup for your requirements.

Firstly, let's take a quick look at the different lights on the front of a vehicle:



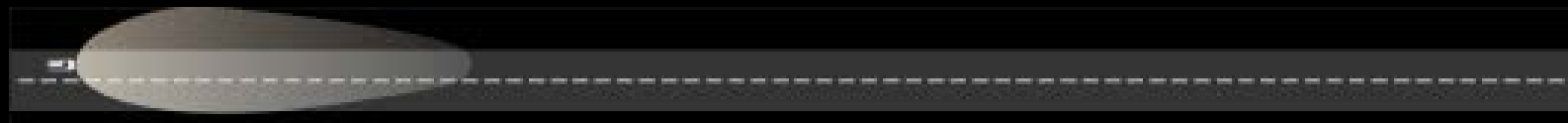
### Vehicle Lighting Low Beam Headlights:

These are the lights used all the time for night driving in built-up areas and when passing on-coming traffic. These lights deliver an even spread of light in front of the vehicle and are shaped to avoid glare for other motorists. Reflector type assemblies feature an angled light cutoff to avoid glare, while projector type assemblies use an optically generated cutoff line.



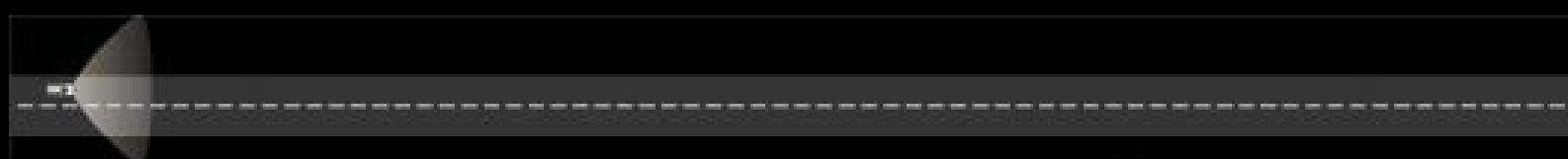
### Vehicle Lighting High Beam Headlights:

These lights are activated by a stalk on the steering column and provide a spread beam that is both wider and longer than the low beams. This allows drivers to see further to the sides and further down the road. Low beam lights stay activated when switching to high beam in all headlights except for H4 type lights that switch between the two using the same globe.



### Vehicle Lighting Front Fog Lights:

These lights throw a very low wide pattern over a very short distance. These lights provide illumination when visibility is 200 metres or less due to mist, fog or smoke, by shining underneath the layer of particles. These lights are activated by a separate switch that is only active when parking lights or headlights are switched on. Fog lights are of no use when not in foggy conditions, and they cause unnecessary glare to oncoming traffic when used during clear visibility conditions.



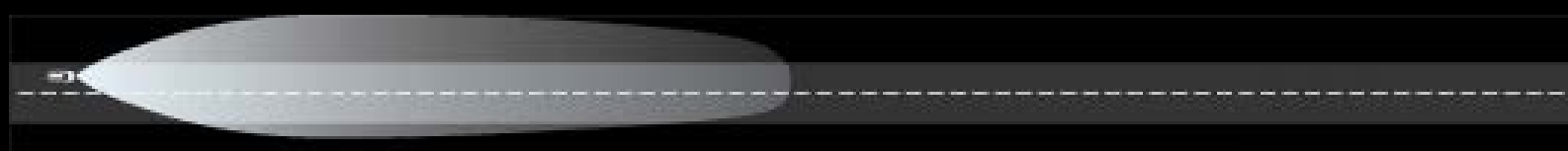
### Xray Vision Driving Light Pencil Beam:

These lights provide additional distance over the standard vehicle high beam and are activated and extinguished with the vehicle's high beam headlights. Driving lights also have a separate on/off switch. Pencil beam patterns are very long and narrow providing the best possible illumination over long distances, ideal for open highways, long distance travel and high speed driving.



### Xray Vision Driving Light Spread Beam:

These lights provide additional distance and width coverage over the standard vehicle high beam and are activated and extinguished with the vehicle's high beam headlights. Driving lights also have a separate on/off switch. Spread beam patterns are wide and even to give excellent light coverage over medium distance plus they provide illumination along sides of the road, ideal for twisty and mountainous roads, off-road and beach driving.



If you are like most people, you do a bit of long distance highway, some hinterland stuff, you take your rig down off-road tracks and onto the beach. The ideal setup for you is one pencil beam and one spread beam driving light. These are generally mounted next to each other with the pencil positioned on the driver's side and the spread on the passenger's side. This provides the best overall light coverage when high beam is activated. The original vehicle's low and high beam take care of the immediate area in front of the vehicle, the pencil beam will shine way up into the distance (up to 1km with the 220 Series HID), and the spread beam will fill the gap between the two giving mid-range light on the road plus additional light to the sides for greater visibility.

However, this may not suit what you use your vehicle for, and for that reason all Xray Vision driving lights are sold individually so that you can mix and match to get the pair (or more) that's right for you.

For example, you might be an overnight truck driver or a sales rep on the road, and all you want is the maximum possible beam distance for long nights on the highway. In this case, two pencil beam driving lights will give you additional illumination on the road ahead ... just where you need it when you're travelling at speed.

Alternatively, you may only use your vehicle for windy dirt tracks, or in places where speed is low but roadside obstacles or animals are plentiful. For this, the distance that the spreads provide is adequate and by mounting two spread beams to the vehicle, the light out to the sides of the road or track is increased.



In addition to this, the quad-optic LED linear driving lights are available in dedicated pencil beam and dedicated spread beam versions ... PLUS dual beam versions in the 900 and 1200 Series models! These dual beam versions actually allow you to individually switch the pencil beam and spread beam sections of the driving light on and off. So if you're travelling down the highway, you could have all the sections switched on together, but when you arrive at a winding undulating off-road track you can switch the pencils off to avoid having a close-range pencil beam hotspot.