



Bosch AutoTrack Frequently Asked Questions

Q. What is AutoTrack?

A. The AutoTrack feature is a motion detector, which takes over PTZ control of the Bosch AutoDome or EnviroDome. The user has the ability for manual override by simply moving the joystick. It is sensitive to motion of all kinds and should only be used in the same applications that a standard motion detector would be utilized, which is to say anywhere there is little or no motion expected. It is best when used in conjunction with a preset tour, or a recorded guard tour that takes periodical pauses of at least 2 seconds during the tour. It can also be used when the dome is idle.

Q. What is the minimum height in the image for detection?

A. Detection function is based on the amount of motion in the image, not the target's height. AutoTrack will watch a target in a scene until enough motion is detected, as low as 50 pixels. After detecting 50 pixels of movement, the AutoTrack function will calculate target position/distances and then adjust the zoom accordingly. AutoTrack will attempt to keep the target within 10-20% of image height. Then, it will continue tracking while it continues to detect a minimum of 50 pixels of motion. That means the required target size could be varying as low as 1% of the image height if it has enough motion.

Q. What are the speed limits of the object to be tracked?

A. It depends on target distance and zoom factor. Minimum distance should be at least 2.7 meter from the camera for 1.8 meter person height. Camera height is also very important. Ideal case such as person size between 10%-20% of the image size, tracker will track target with the speed limit between 27-36 meter/s. Best case such as person size smaller than 10% of the image size, the speed limit could be up to 60 meter/s.

Q. Is the whole area sensitive or just a defined viewing angle?

A. 10% of the picture perimeter is not active. (It has entire area sensitivity except 10% from the top and 2% from the bottom, right and left sides of the image).

Q. What happens if more than one object is in the picture?

A. It will track which object has a larger image.

Q. Can AutoTrack be used for outdoor scenes?

A. If there is nothing that has motion other than the person in the outdoor scene, it tracks a target. No trees or wind related items should be in view.

Q. Can AutoTrack be used with all type of AutoDomes?

A. Not for BasicDomes and not for Pressurized Domes

Q. Can you use an AutoTrack sensitive area in the picture?

A. No, it uses entire camera image. You can not customize sensitive area.

Q. What happens when using AutoTrack with privacy zones?

A. Privacy zones are disabled when AutoTrack is engaged.

Q. What is the minimum sensitivity with Day/Night switching?

A. It could perform tracking with Neutral Density Filter up to 1.50 by average contrast level.

Q. Contrast, How much contrast is needed for a good AutoTrack function?

A. Average contrast level is the best.

Q. Is color information used, or just luminance?

A. Just luminance

- Q. What happens if a person that is tracked walks under the Dome?**
A. Depending on height and target speed, it could perform tracking well enough above 12 meters height, but it is risky to loose target below 12 meters height. The object to be tracked needs to be moving at walking pace if close to the dome and proportionally faster at further distances. The AutoTracker is not designed to track objects under the dome.
- Q. What happens in a guard tour?**
A. It also works on a recorded guard tour that takes periodical pauses of at least 2 seconds during the tour.
- Q. What happens when AutoTrack is overruled by the use of the joystick?**
A. When the AutoTrack is on and a user takes manual control of it, the AutoTrack turns off. AutoTrack will remain off unless inactivity is turned on, in which case the tracker will turn itself back on after the inactivity timer expires.
- Q. What happens when more than one Dome is used with AutoTrack?**
A. The first AutoTrack Dome will reset itself and another Dome will start tracking.
- Q. Is it possible to upgrade older versions of AutoDomes?**
A. No, AutoTrack can only be used with the new "C" versions of AutoDome units, sold after June 2003.
- Q. What happens when you need to use the RS 232 / 485 port with AutoTrack?**
A. RS232 is already used to interface the AutoTrack module to the AutoDome. That's why the RS232/RS485 connection is not available for other connections.
- Q. Can I switch AutoTrack on and off at set times?**
A. No, there is no clock available in the AutoTrack and/or AutoDome unit.
- Q. Can I make AutoTrack start by using a relay input?**
A. Yes, each of the four alarm inputs on the AutoDome can be programmed to start AutoTrack.
- Q. When AutoTrack picks up motion do I get a relay output?**
A. Yes, a dedicated relay output on the AutoTrack unit will be activated as soon as AutoTrack picks up motion and stops when motion is lost.