CLAIMS

[1] A radar device for detecting an object that exists within a predetermined range on the basis of results of reception of a reflected wave in response to a transmitted wave, comprising:

a determination unit which determines whether or not the object is a moving body on the basis of the results of reception; and

a controller which controls the radar device so that the radar operation is temporarily stopped in the case where the determination unit has determined that the object is a moving body,

characterized in that the controller stops the radar operation of the radar device at the point in time when the reception power of the reflected wave exceeds a preset threshold value.

[2] The radar device according to claim 1, characterized in that the controller stops the radar operation of the radar device at the point in time when the determination unit determines that the object is a moving body.

[3] The radar device according to claim 1, characterized in that the controller resumes the radar operation of the radar device at the point in time when a preset period of time has elapsed after the stoppage of the radar operation of the radar device.

[4] The radar device according to claim 1, characterized in that the controller resumes the radar operation of the radar device at the point in time when a period of time calculated on the basis of the moving velocity of the object has elapsed after the stoppage of the radar operation of the radar device.

[5] A radar system having a plurality of radar devices for detecting an object that exists within a predetermined range on the basis of results of reception of a reflected wave in response to a transmitted wave, characterized by comprising:

a determination unit which determines whether or not the object is a moving body on the basis of the results of reception by at least any of the radar devices; and

a controller which controls as a target a radar device that is installed in the moving direction of the object so that the radar operation is temporarily stopped in the case where the determination unit has determined that the object is a moving body,

characterized in that the controller stops the radar operation at the point in time when the reception power of the reflected wave exceeds a preset threshold value.

[6] The radar system according to claim 6, characterized in that the controller controls the target radar device so that the radar operation is temporarily stopped on the basis of the positional relationship between the object and the target radar device.

[7] The radar system according to claim 6, characterized in that a control device which is connected to the plurality of radar devices in a communicable manner is provided with the determination unit and the controller.

[8] The radar system according to claim 6, characterized in that

the radar devices are connected to each other in a communicable manner and are respectively provided with the determination unit and the controller, and

each of the plurality of radar devices controls itself so that the radar operation can be temporarily stopped on the basis of the results of reception by another radar device.

[9] The radar system according to claim 6, characterized in that

the plurality of radar devices includes a moving body detection radar device that is superior to other radar devices in terms of the power withstanding performance, and

the determination unit and the controller can carry out a process by using the results of reception by the moving body detection radar device.

[10] The radar system according to claim 10, characterized in that the moving body detection radar device is installed on the upstream side of the other radar devices along the route through which the object is assumed to move.