

iBS08 Deployment Guide

iBS08 detects human presence even if he/she is not moving.
A proper deployment of iBS08 is crucial to detect the human body. This guide will show you how to deploy it correctly. Some examples are also shown to help you for the deployment.

Components



iBS08S - shorter distance



iBS08L - longer distance



Fixing triangle

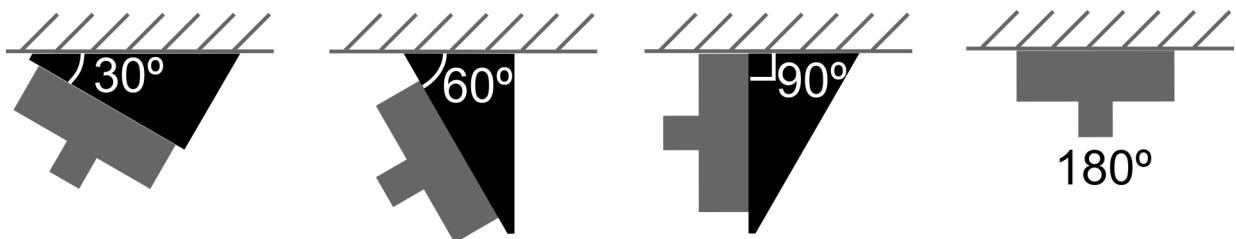
Fixing triangle

Use a 3mm screw or a double sided tape to fix the triangle in 3 directions as shown.



Deployment Angle

Each iBS08 comes with a fixing triangle. Users can fix iBS08 in 30°, 60°, 90°, and 180° angles with this triangle.

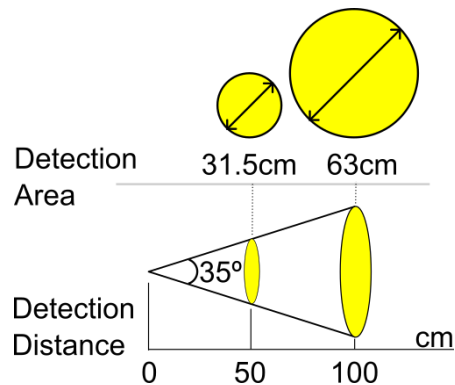


Detection Area vs Distance

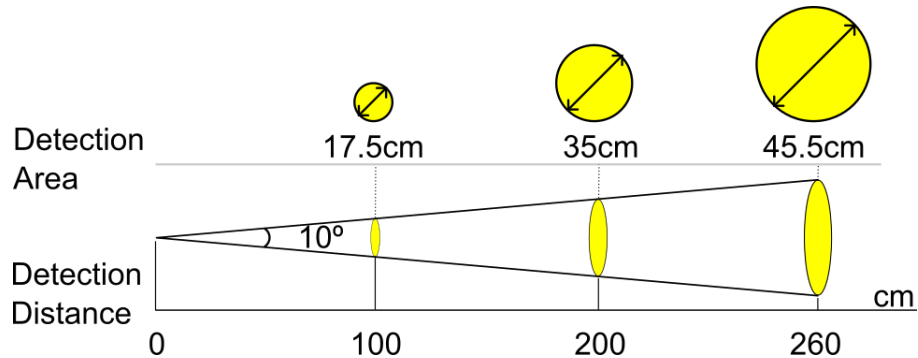
Model	iBS08S	iBS08L
FOV(Field of View)	35°	10°
Detection distance*	50-100cm	100cm-260cm

* It may be possible to detect the human body in a shorter or longer distance. User has to verify it carefully to confirm the deployment in a shorter or longer distance.

iBS08S(FOV 35°)

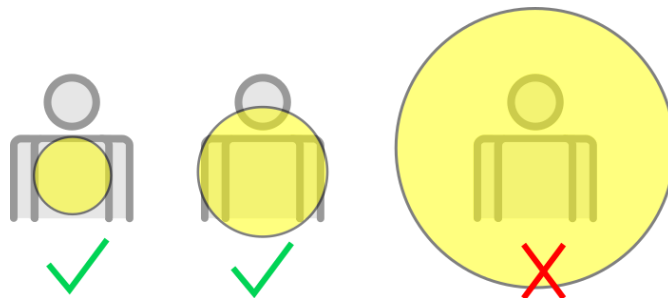


iBS08L(FOV 10°)



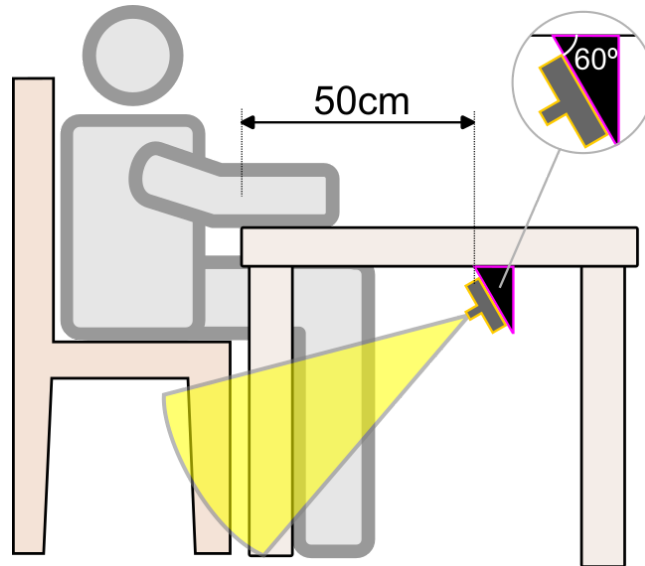
Detection Area vs Human Body

For the best detection result, the detection area should be similar to or smaller than the human body size.



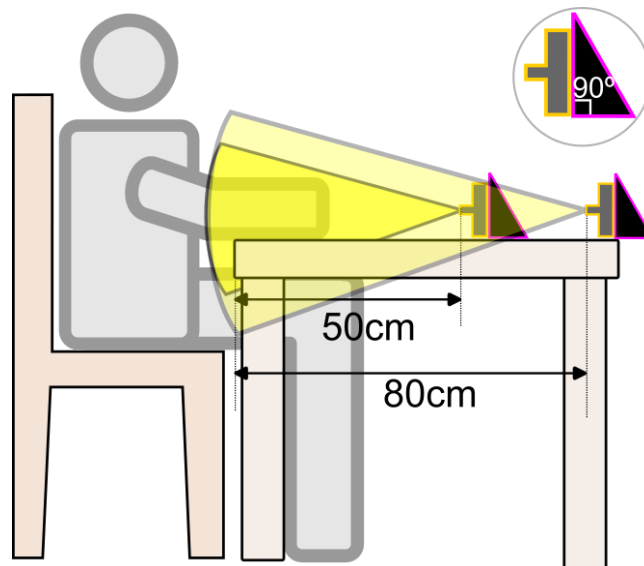
Deployment Examples

Seat Occupancy 1



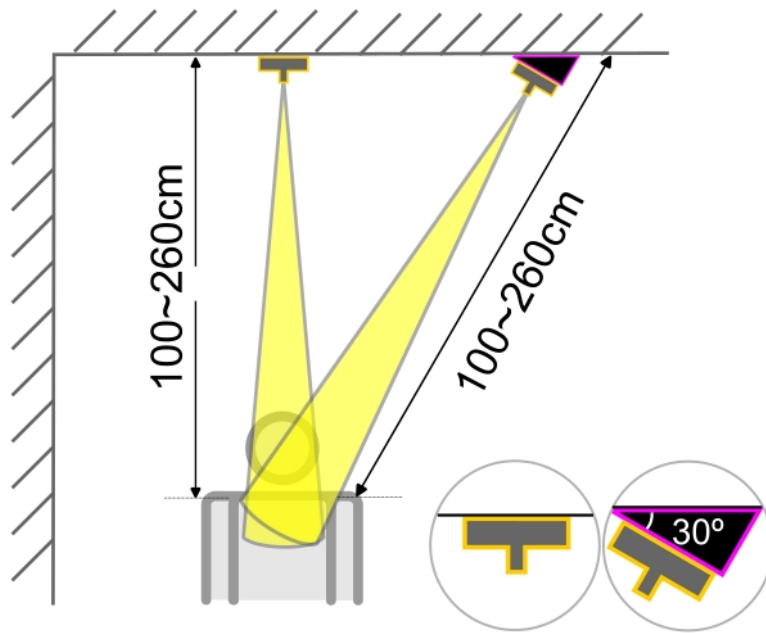
iBS08S is installed under the desktop, 50cm/60° is suggested for the installation

Seat Occupancy 2



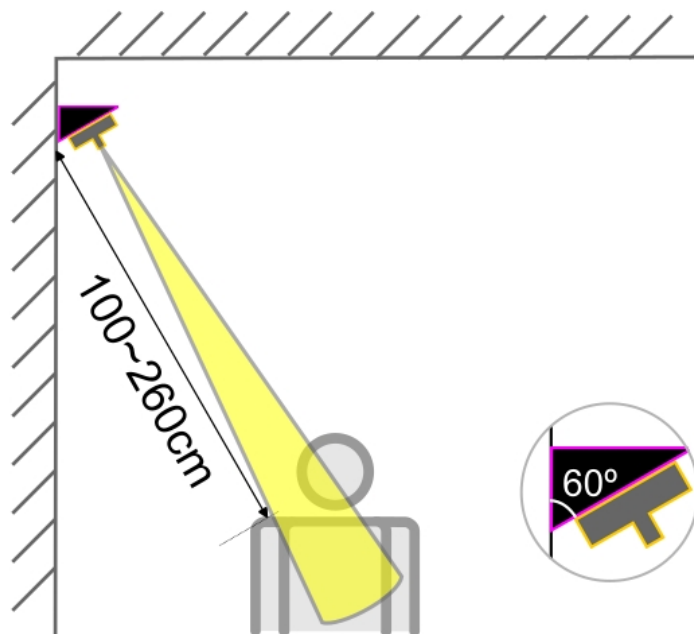
iBS08S is installed on the desktop, 50~80 cm/90° is suggested for the installation

General Human Detection 1



iBS08L is installed on the ceiling, 100~260 cm/180°-30° is suggested for the installation

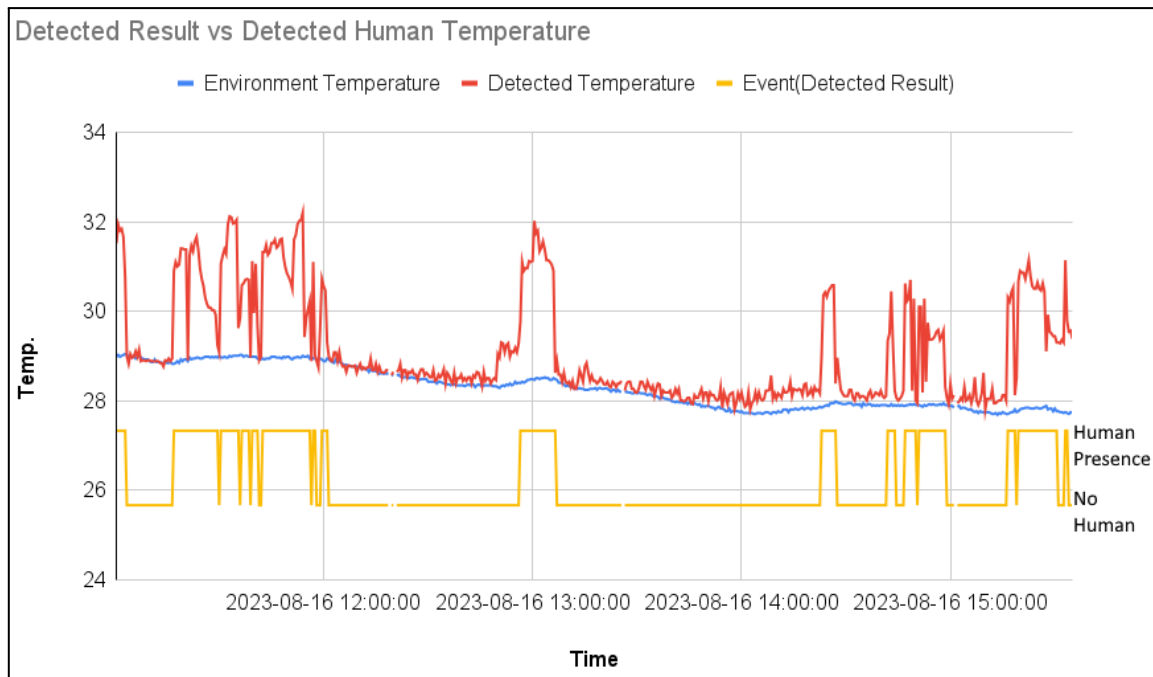
General Human Detection 2



iBS08L is installed on the wall, 100~260 cm/60° is suggested for the installation

Detected Result

From the figure shown below, when human presents, the detected temperature will be 2~3°C* higher than the environment temperature. iBS08 will detect it and show the event “active”.



* The temperature gap may differ with distance, the clothes, and the environment temperature.

Important Notes

iBS08 uses a thermal sensor to detect the temperature and hence is sensitive to the heat. Care must be taken at deployment.

1. Avoid other heat sources existing in the same detection area with the human. For example, at deployment, avoid the hot coffee or display screen existing in the same detection area with the human body.
2. At deployment, please keep iBS08 away from the other heat source. iBS08 detects environment temperature by its internal sensor. If a heat source is close to iBS08, it will fail to detect the true environment temperature.
3. It may fail to detect the human covered with a thick clothes or blanket.
4. At deployment, it's better to “fill” the whole detection area with the targeted human body. In this way, the detected temperature will be higher and hence make a bigger temperature gap between human presence and no presence.
5. When the iBS08 is turned on, there should be no heat source in front of it(ex:human).

Revision History

DATE	REVISION	CHANGES
Oct 16, 2023	0a	Initial release