

HeiTel IMD series

Passive Infrared Detector for Field Work



HeiTel IMD detectors (Infrared Motion Detection) are high-performance passive infrared motion detectors, which have been specially developed for outdoor surveillance purposes. The detectors are optimised for use in security technology applications in the field of video monitoring and intrusion detection technology. For the different object and application-specific conditions there are medium-range and long-range detectors with very small angles of aperture as well as volume detectors - as surface detectors - with different ranges and corresponding sizes of angles of aperture.

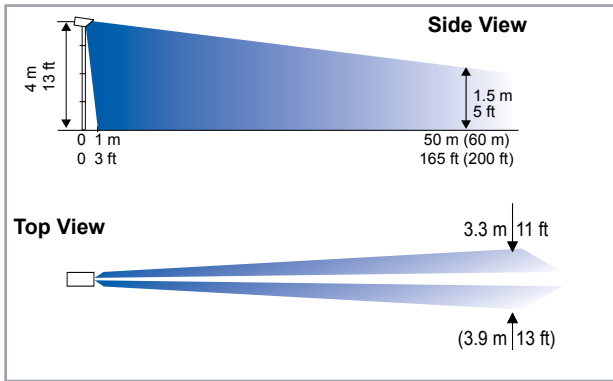
The outstanding feature of the HeiTel IMD series is its unique remote service option.

Configuration and diagnoses are easily carried out on the devices locally or remotely. The assembly height of up to 4 m reduces the risk of sabotage.

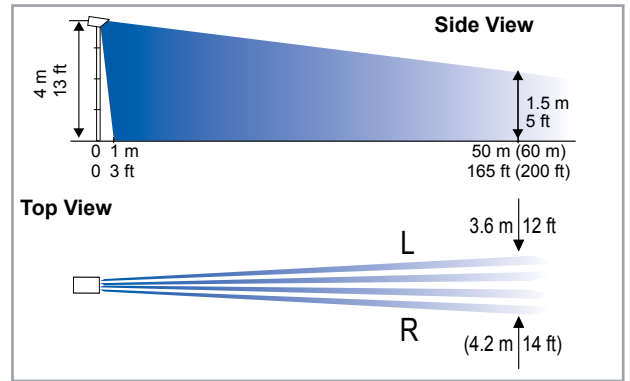
- High precision and reliability - even in the most difficult operating conditions
- By using the remote service, settings and detector sensitivity can be easily changed or checked remotely or locally
- Extremely small coverage range for curtain detectors
- Safe detection even through snow, fog and rain
- Reduced risk of sabotage thanks to assembly height of up to 4 metres
- All-over, consistent coverage across the entire range with minimal gaps when using curtain detectors
- Low false alarm rate thanks to modern DSP technology and adaptable threshold tracking
- Additional false alarm reduction through directional detection
- Integrated electronic camera position authentication
- Low power consumption of only 18 mA for 12V DC (models without heating)
- High operating voltage range of 10.5V DC - 30V DC, 24V AC \pm 15%
- H models with integrated temperature-controlled heating and silicon glass front pane for extreme operating conditions
- Bracket for wall mounting included in delivery



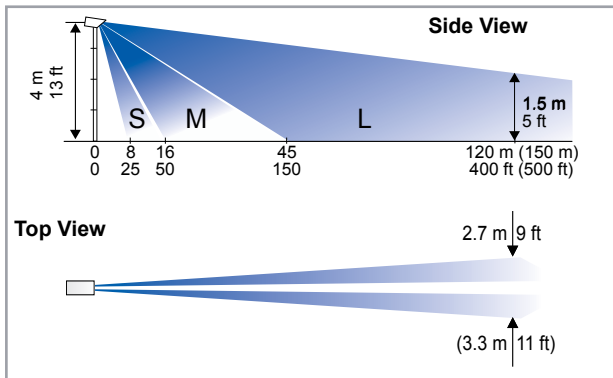
Coverage Model for IMD Detectors



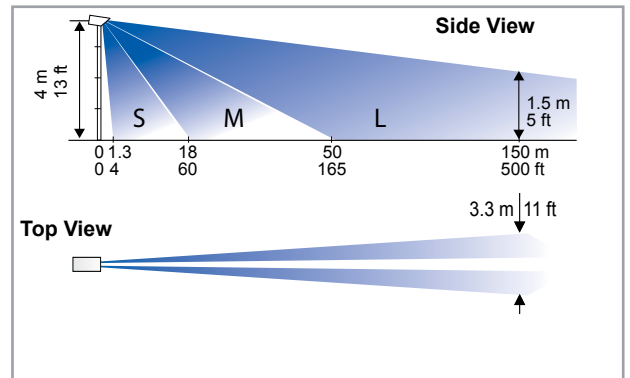
Top and side view of the coverage range for HeiTel IMD-45/IMD-45H (ranges for H models)



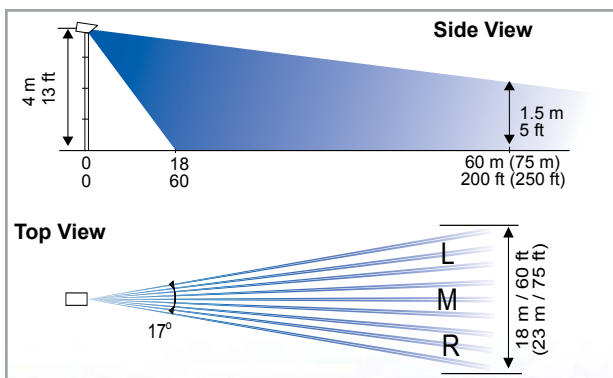
Top and side view of the coverage range for HeiTel IMD-45D/IMD-45DH (ranges for H models)



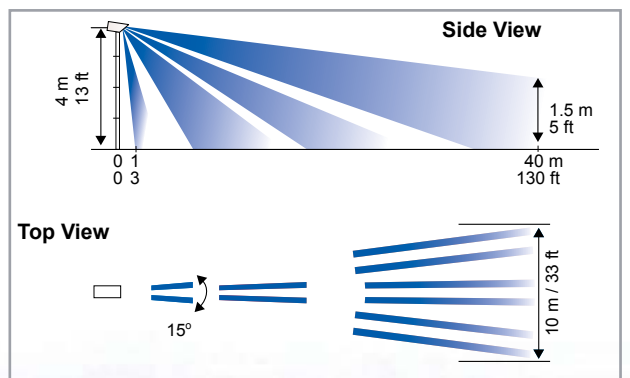
Top and side view of the coverage range for HeiTel IMD-100/IMD-100H (ranges for H models)



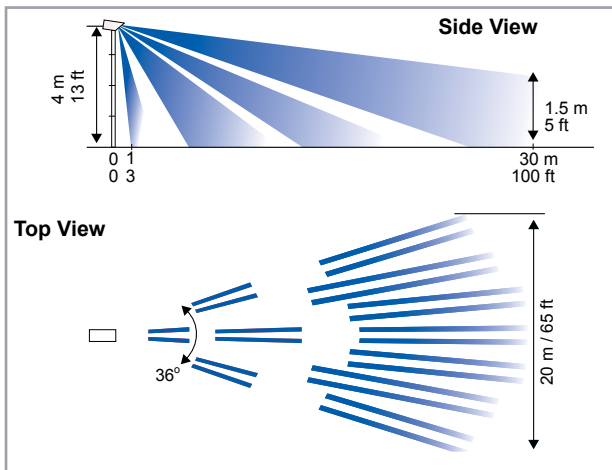
Top and side view of the coverage range for HeiTel IMD-250H



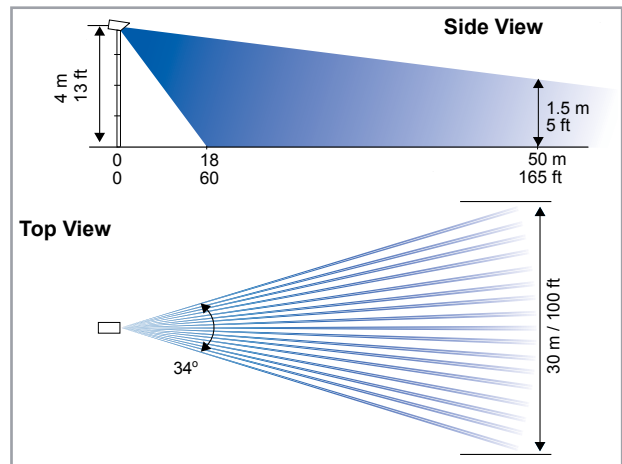
Top and side view of the coverage range for HeiTel IMD-85/IMD-85H (ranges for H models)



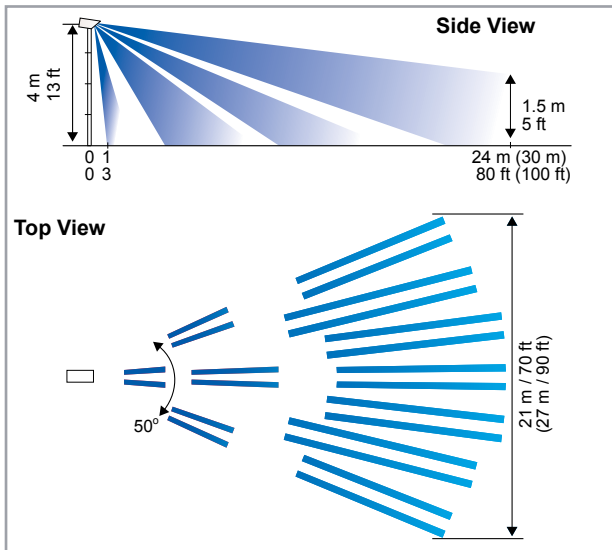
Top and side view of the coverage range for HeiTel IMD-40



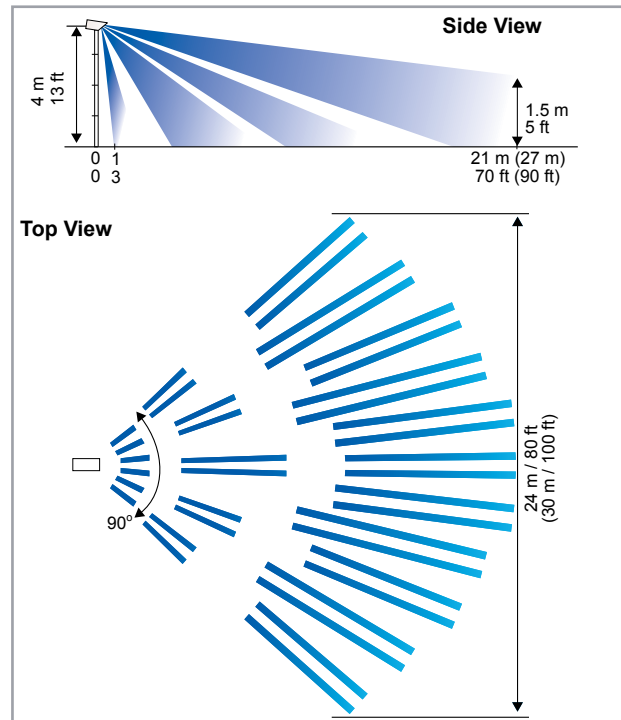
Top and side view of the coverage range for HeiTel IMD-30



Top and side view of the coverage range for HeiTel IMD-50

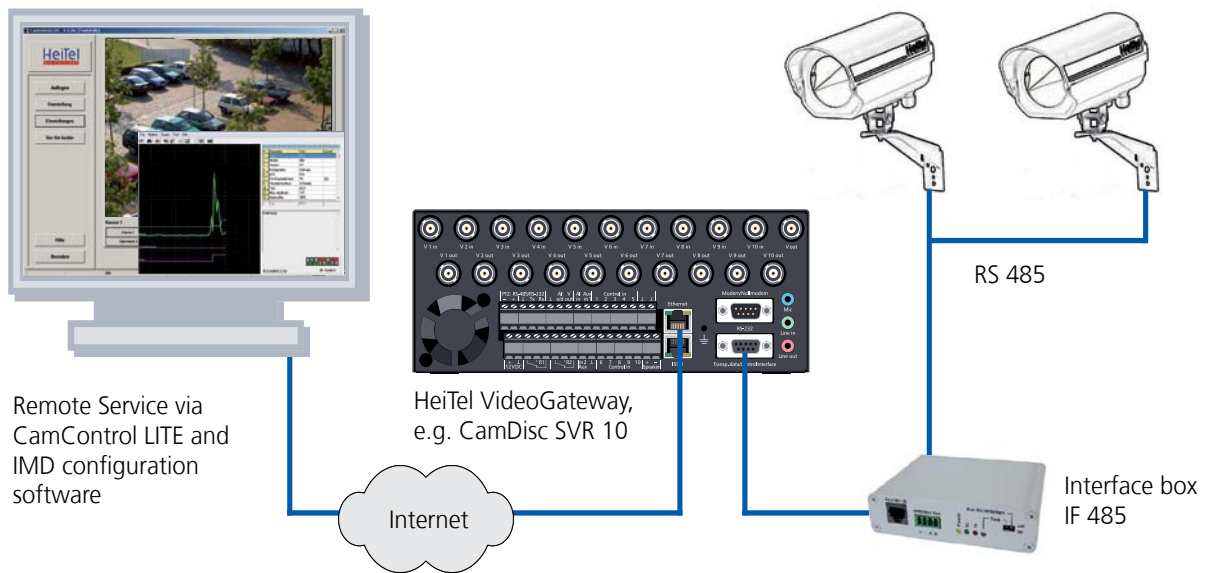


Top and side view of the coverage range for HeiTel IMD-18/IMD-18H (ranges for H models)



Top and side view of the coverage range for HeiTel IMD-18W/IMD-18WH (ranges for H models)





Accessories

- Telescope/telescopic sight** for fine adjustment of medium-range and long-range curtain detectors from the HeiTel IMD series
- Interface box** to connect the IMD detectors to a PC or a HeiTel VideoGateway via an RS485 bus. The RS485 interface enables the detectors to be configured or functional diagnoses to be carried out via remote service.
- Function test diagnosis set**, which can be used to help with start-up and to detect the coverage range on-site. CT PRO includes a radio transmitter, which is connected to a HeiTel IMD motion detector, and a receiver, which signals the detector sensitivity and tripping characteristic when the coverage range is measured.
- Assembly set** for fixing the HeiTel IMD detector to masts (suitable for masts or posts with a diameter of 4-16 cm)

Technical data	
Direction distinction	For IMD 45D and IMD 45DH
Operating voltage	10.5V DC - 30V DC, 24V AC ± 15%
Power consumption (no heating)	18mA for 12V DC
Thermal output (for H models)	2W - 176mA for 12V
Operating temperature	-20° C to 60° C, for H models -40° C to 60° C
Weight	900g, incl. mount, IMD 250H: 1,500g without mount
Dimensions LxWxH	247mm x 100mm x 104mm for all types except IMD 250H
Dimensions IMD 250H LxWxH	275mm x 100mm x 100mm
Window material standard model	IR-penetrable plastic
Window material H models	Silicon glass
Sensor type	Differentiating pyrotechnical sensor in various models (single channel, double channel, triple channel)
Protection rating	IP 64 for all devices - IMD 45H, IMD 100 H, IMD 45DH, IMD 18WH, IMD 18H, IMD 85 H are also each available with IP 65 or IP 66 rating
Colour sensitivity	8 µm - 14 µm, double filtered
Outputs	- 1 potential-free alarm output 30V DC, 100mA - 1 OC semiconductor 50mA IMD 250H also has 3 optocouplers
Alarm display	Internal LED
Configuration options via internal DIP switch	
- Curtain detector and IMD 85H	- Range, ATD, test, sabotage protection, assembly height
- Surface detector	- Sensitivity, ATD, pulse counter, test, sabotage protection, assembly height
Detection speed	0.2m/s - 5m/s
Temperature adjustment	Across the whole temperature range
Cable lead	2 x 4-7 mm diameter (for IMD 250H: 2 x 6.9 mm)
Cable connection	Terminal screw
Mounting	Wall bracket (included in delivery for all types except IMD 250H), additional mast mount with ZA P-L1
Sabotage protection	Cover contact, misalignment detection

Model	Nominal reach (LxW) and Angle of aperture (ca.)	Sensor type	Sensitivity adjustment (via DIP switch)	Sensitivity adjustment (via software)
Curtain detector				
IMD 45	50 m x 3.3 m, 4°	Single channel	40%, 75%, 100%	20% - 140%
IMD 45H	60 m x 3.6 m, 3.5°	Single channel	40%, 75%, 100%	20% - 140%
IMD 100	120 m x 2.9 m, 2.9°	Triple channel	50%, 70%, 100%	50% - 150%
IMD 100H	150 m x 3.3 m, 1.3°	Triple channel	50%, 70%, 100%	50% - 150%
IMD 250H	150 m x 3.6 m, 1.3°	Triple channel	50%, 70%, 100%	50% - 150%
IMD 45D	50 m x 3.9 m, 2.5°	Double channel	40%, 75%, 100%	20% - 140%
IMD 45DH	60 m x 4.2 m, 4°	Double channel	40%, 75%, 100%	20% - 140%
Surface detector				
IMD 18W	21 m x 24 m, 90°	Single channel	40%, 75%, 100%	20% - 140%
IMD 18WH	27 m x 30 m, 90°	Single channel	40%, 75%, 100%	20% - 140%
IMD 18	24 m x 21 m, 50°	Single channel	40%, 75%, 100%	20% - 140%
IMD 18H	30 m x 27 m, 50°	Single channel	40%, 75%, 100%	20% - 140%
IMD 30	30 m x 20 m, 36°	Single channel	40%, 75%, 100%	20% - 140%
IMD 40	40 m x 10 m, 15°	Single channel	40%, 75%, 100%	20% - 140%
IMD 50	50 m x 30 m, 34°	Single channel	40%, 75%, 100%	20% - 140%
IMD 85	60 m x 18 m, 17°	Triple channel	50%, 75%, 100%	50% - 150%
IMD 85H	75 m x 23 m, 17°	Triple channel	50%, 75%, 100%	50% - 150%