



## Engineers' Specifications

The contractor shall provide motion detectors in the areas requiring protection as specified in the drawings. Contractor shall be responsible for determining the best mounting location in each area to provide full coverage while minimizing false alarms. Wall mount detectors shall in addition be ceiling, or corner mountable, and shall share common mounting brackets so that they are interchangeable. Detectors shall have optional wall swivel with back tamper.

Plastic housing shall be inconspicuous and relatively slim – depth not above 41 mm (1.6"). The same plastic housing shall be used for detectors employing different technologies in order to harmonize the appearance of the installation. The detectors shall have ample wiring space to facilitate easy installation.

Contractor shall select the most suitable detector technology for each area in order to provide the best detection while minimizing false alarms. Detection technologies shall be chosen according to the application from passive infra-red (PIR) detectors, combined PIR and microwave detectors with Anti-Cloaking Technology, Quad PIR sensors for extremely harsh environments, Anti-masking detection, and detectors with Pet immunity as required.

Mounting height shall be variable between 2.1 to 3.3 meters (6'11" to 10'10").

The detectors shall have interchangeable wide angle or corridor lenses.

**Dual Technology PIR and Microwave detectors** shall employ Anti-Cloak Technology – meaning that the detector will automatically switch to microwave only detection, only when specific cases are identified in which the PIR channel is vulnerable:

Case A: When ambient temperature is close to body temperature.

Case B: When the detector identifies a camouflage or cloaking attempt of an intruder.

Dual Technology detectors shall have 3 LED's for easy walk test indication. Microwave channel shall be in X-band for improved performance and better false alarm immunity compared to S-band.

**PIR technology** shall include digital signal processing, true temperature compensation, high RFI and electrical transient immunity, a creep zone, and protection from white light and other sources of false alarms.



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