

Tech Note - 18

Surveillance Systems that Work!™



Outdoor Housed Cameras (Indoor can be Outdoor Too)

Many indoor conventional cameras, if enclosed in a specially “designed for the elements housing,” can be used outdoors as well as indoors. Since most indoor/outdoor cameras are of the fixed lens variety, outdoor housings provide the significant added value of protecting an otherwise interior only type camera from the elements.



**HSG - X
Housing**

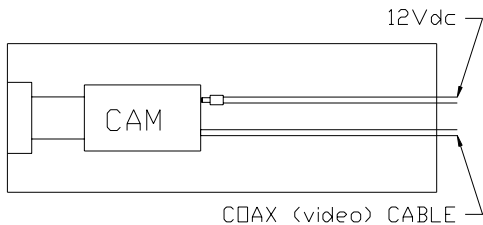
From a housing standpoint, most are similar. They consist of two gasketed, cast aluminum pieces that are hinged in front to provide access to the inside. There is a latching mechanism on the backside that can also be fitted with a lock for added security.

Outdoor housings come with easy to install wall-mounting brackets and the entire housing can tilt up/down as well as swivel from side to side.

The additional hardware (an internal heater and small fan blower) is what differentiates harsh environment housing from their less complicated counterparts. In geographic areas where the temperature frequently drops below freezing, an exterior housing equipped with heater and blower is strongly recommended.

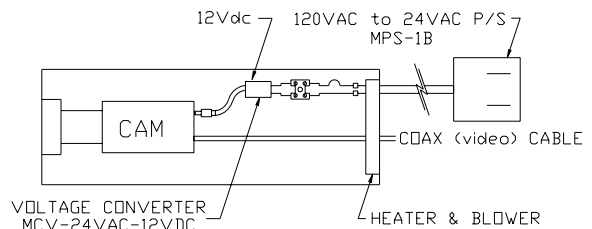


**HSG - X
Housing
(Rear View)**



In areas where cold temperatures are not an issue an outdoor housing (without an internal heater) will suffice and the wiring thereof is rather simplistic – just run your Siamese cable through the weather-tight connector in the back of the housing, make your power connection to a plug and terminate the video with a BNC connector and plug 'em in!

On the other hand, when installing housed indoor cameras in areas where the temperatures dip below freezing, the wiring requirements are a bit more extensive. 24vAC power needs to be supplied in order to operate an internal heater and blower. After the 24vAC connection, the power needs to be transformed to 12vDC in order to power the camera electronics. For this we use our MCV-24VAC-12VDC power converter. Ultimately, the drawing at the right details H02A's wiring configuration.



If there are any additional questions regarding the use and installation of outdoor camera enclosures please contact **GuardDog Surveillance Systems** technical support.