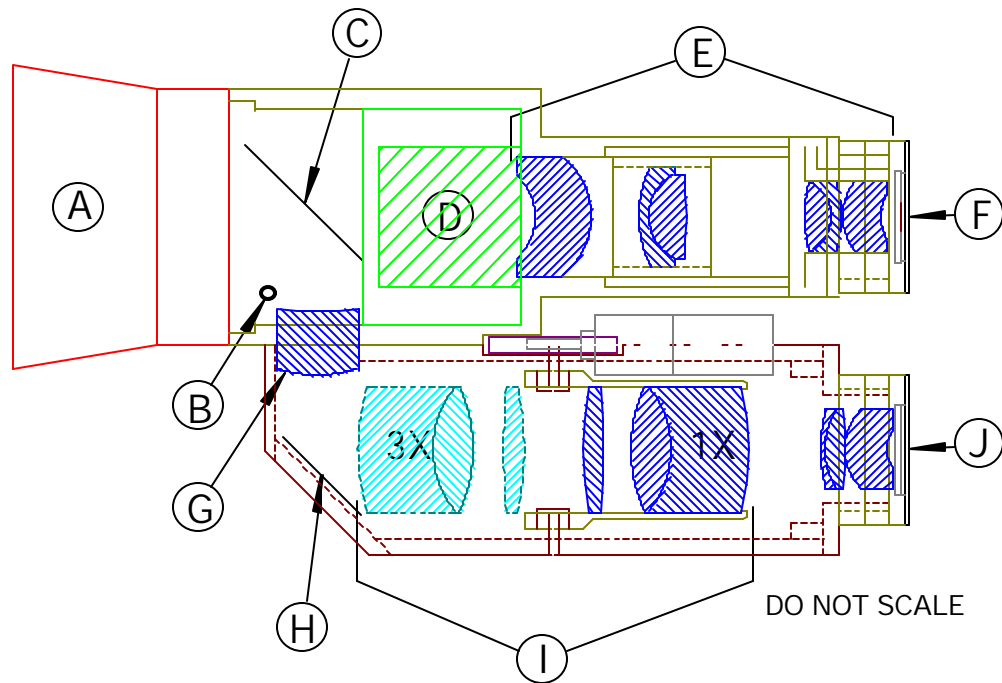


GRAFLEX....INTENSICON

INTENSICON DUAL CHANNEL CAMERA SCHEMATIC



Night Channel

Objective lens (Cat Zoom or 12X) {A} passes 1" format image (16mm) into *INTENSICON* dual channel camera. Light sensing diode {B} checks for light level and allows or disallows user to switch from day to night channel. If allowed to switch to night channel, user manually activates sliding mirror {C} out of optical path allowing image and 100% of light energy to pass through intensifier {D}. Intensifier {D} image 1" (16mm) output is then transferred via a .33X high efficiency relay lens {E} to a wide spectral band sensitivity 1/3" format chip camera. As this is happening the photo diode {B} output signal will activate the intensifier {D} and the night chip camera {F} and deactivate the day chip camera {J}.

Day Channel

Day channel operation is manually activated by the operator. Upon activation, the mirror {C} slides into optical path thereby diverting the full 1" (16mm) format image downward 90 degrees into the day channel and then through the relay lens {G}. The image is then reflected 90 degrees the via fixed mirror {H} into the 1X by 3X motorized lens assembly {I} which also acts as a .33X optical image reducer. When activated, the 1X by 3X motorized lens assembly (I) flips to the alternative position. As the day channel is activated a signal activates the day chip camera {J} and deactivates the intensifier {D} and the night chip camera {F}.

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