

Unoptimized Scanning Laser - RS170 (B&W)

Video Resolution	
Horizontal	Vertical
768 pixels	525 lines

Frame Rate	30 fps	60 fields/sec.
H. Sync Pulse Width	4.70E-06 sec	
Line Width	6.35E-05 sec	
Vertical Blank Width	20 lines + 1.5us	

Video Angle of View	
Horizontal	Vertical
56 deg	40 deg

Number of H mirrors	1
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Horizontal Motor (scan):

$$\frac{\frac{56 \text{ degrees}}{5.88\text{E-}05 \text{ sec.}} \times \frac{1 \text{ rotation}}{360 \text{ degrees}} \times \frac{60 \text{ seconds}}{\text{minute}}}{1} = \frac{158,752 \text{ rotations}}{\text{minute}}$$

Horizontal Motor (realign):

$$\frac{\frac{304 \text{ degrees}}{4.70\text{E-}06 \text{ sec.}} \times \frac{1 \text{ rotation}}{360 \text{ degrees}} \times \frac{60 \text{ seconds}}{\text{minute}}}{1} = \frac{10,780,142 \text{ rotations}}{\text{minute}}$$

Vertical Motor (scan):

$$\frac{\frac{\frac{\text{line}}{6.35\text{E-}05 \text{ sec}}}{252.5 \text{ lines}} \times \frac{40 \text{ degrees}}{\text{field}} \times \frac{1 \text{ rotation}}{360 \text{ degrees}} \times \frac{60 \text{ seconds}}{\text{minute}}}{1} = \frac{416 \text{ rotations}}{\text{minute}}$$

Vertical Motor (realign):

$$\frac{\frac{\frac{\text{line}}{6.35\text{E-}05 \text{ sec}}}{20.0 \text{ lines}} \times \frac{40 \text{ degrees}}{\text{field}} \times \frac{1 \text{ rotation}}{360 \text{ degrees}} \times \frac{60 \text{ seconds}}{\text{minute}}}{1} = \frac{5,244 \text{ rotations}}{\text{minute}}$$