





















Noise	std (σ _b)) vs. image gray level (b) 🌋
	Sensor	Image
Signal	p_b	$b = G \cdot p_b + O \qquad (1)$
Noise std	√(p _b)	$\sigma_{\rm b} = G \cdot \sqrt{(\mathfrak{p}_{\rm b})} \qquad (2)$
From (1) From (2), (G·O) }	$p_b = (b)$ 3) σ (4)	$\sigma_b^2 = \mathbf{G} \cdot \mathbf{b} - \mathbf{G} \cdot \mathbf{O} \{ \sigma_b = \operatorname{sqrt}(\mathbf{G} \cdot \mathbf{b} - \mathbf{G}) \}$
Observations		
- Poisson noise std (σ_b) is a function of the image		
gray ievei (iuminance b).		
- Poisson noise sta is nigher in the darkest zones		
or the image.		
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