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Comparison of Low Level Light Sensors

	PMT Photomultiplier Tube	APD Avalanche Photodiode	SiPM Silicon Photomultiplier
Quantum Efficiency	25% ... 40%	60% ... 80%	... 80%
Single Photon Resolution	✓	-----	✓
Operation Voltage	1 - 3 kV	100 - 500 V	20 ... 80 V
Gain	$10^4 - 10^9$	30 - 300	$10^5 - 10^7$
Robustness	-----	✓	✓
Insensitivity to Magnetic Field	-----	✓	✓
No damage in bright light	-----	✓	✓
Miniaturization	-----	✓	✓
Production Costs	Medium	Low	Low