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| --- | --- |
| noisy images with gaussian noise, amplitude = 10, SNR = 13.60132 | |
| Box\_3\*3, SNR = 17.73218 | Box\_5\*5, SNR = 14.85569 |
| Median\_3\*3, SNR = 17.66604 | Median\_5\*5, SNR = 15.98785 |
| Opening-then-Closing, SNR = 13.24529 | Closing-then-Opening, SNR = 13.55722 |

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| noisy images with gaussian noise, amplitude = 30, SNR = 4.15711 | |
| Box\_3\*3, SNR = 12.59956 | Box\_5\*5, SNR = 13.29304 |
| Median\_3\*3, SNR = 11.05714 | Median\_5\*5, SNR = 12.85303 |
| Opening-then-Closing, SNR = 11.14518 | Closing-then-Opening, SNR =11.18898 |

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| Salt-and-pepper noise, probability = 0.05, SNR = 0.89237 | |
| Box\_3\*3, SNR = 9.41370 | Box\_5\*5, SNR = 11.11822 |
| Median\_3\*3, SNR = 19.18775 | Median\_5\*5, SNR = 16.34519 |
| Opening-then-Closing, SNR = 5.41734 | Closing-then-Opening, SNR = 5.61813 |
| Salt-and-pepper noise, probability = 0.1, SNR = -2.10643 | |
| Box\_3\*3, SNR = 6.30611 | Box\_5\*5, SNR = 8.47603 |
| Median\_3\*3, SNR = 14.66823 | Median\_5\*5, SNR = 15.73624 |
| Opening-then-Closing, SNR = -2.22203 | Closing-then-Opening, SNR = -2.52900 |