TABLE1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Method | Scale | SET5 PSNR/SSIM | SET14 PSNR/SSIM | BSDS100 PSNR/SSIM |
| Bicubic | 3× | 30.41/0.869 | 27.55/0.775 | 27.22/0.741 |
| A+ [[25](#_ENREF_25)] | 3× | 32.62/0.909 | 29.15/0.820 | 28.31/0.785 |
| RFL [[37](#_ENREF_37)] | 3× | 32.47/0.906 | 29.07/0.818 | 28.23/0.782 |
| SelfExSR | 3× | 32.66/0.910 | 29.18/0.821 | 28.30/0.786 |
| SRCNN | 3× | 32.78/0.909 | 29.32/0.823 | 28.42/0.788 |
| FSRCNN | 3× | 33.18/0.914 | 29.37/0.824 | 28.53/0.791 |
| SCN | 3× | 32.62/0.908 | 29.16/0.818 | 28.33/0.783 |
| VDSR | 3× | 33.67/0.921 | 29.78/**0.832** | **28.83/0.799** |
| DRCN | 3× | **33.83**/**0.922** | 29.77/**0.832** | 28.80/0.797 |
| LapSRN | 3× | 33.82/**0.922** | 29.87/**0.832** | 28.82/0.798 |
| TISR (ours) | 3× | 33.82/**0.922** | **29.89**/**0.832** | **28.83**/0.798 |
| Bicubic | 4× | 28.43/0.811 | 26.01/0.704 | 25.97/0.670 |
| A+ [[25](#_ENREF_25)] | 4× | 30.32/0.860 | 27.34/0.751 | 26.83/0.711 |
| RFL [[37](#_ENREF_37)] | 4× | 30.17/0.855 | 27.24/0.747 | 26.76/0.708 |
| SelfExSR | 4× | 30.34/0.862 | 27.41/0.753 | 26.84/0.713 |
| SRCNN | 4× | 30.50/0.863 | 27.52/0.753 | 26.91/0.712 |
| FSRCNN | 4× | 30.72/0.866 | 27.61/0.755 | 26.98/0.715 |
| SCN | 4× | 30.41/0.863 | 27.39/0.751 | 26.88/0.711 |
| VDSR | 4× | 31.35/0.883 | 28.02/0.768 | 27.29/0.726 |
| DRCN | 4× | **31.54**/0.884 | 28.03/0.768 | 27.24/0.725 |
| LapSRN | 4× | **31.54**/**0.885** | 28.19/0.772 | 27.32/0.727 |
| TISR (ours) | 4× | **31.54**/**0.885** | **28.21**/**0.773** | **27.33**/**0.728** |
| Bicubic | 8× | 24.40/0.658 | 23.10/0.566 | 23.67/0.548 |
| A+ [[25](#_ENREF_25)] | 8× | 25.53/0.693 | 23.89/0.595 | 24.21/0.569 |
| RFL [[37](#_ENREF_37)] | 8× | 25.38/0.679 | 23.79/0.587 | 24.13/0.563 |
| SelfExSR | 8× | 25.49/0.703 | 23.92/0.601 | 24.19/0.568 |
| SRCNN | 8× | 25.33/0.690 | 23.76/0.591 | 24.13/0.566 |
| FSRCNN | 8× | 25.60/0.697 | 24.00/0.599 | 24.31/0.572 |
| SCN | 8× | 25.59/0.706 | 24.02/0.603 | 24.30/0.573 |
| VDSR | 8× | 25.93/0.724 | 24.26/0.614 | 24.49/0.583 |
| DRCN | 8× | 25.93/0.723 | 24.25/0.614 | 24.49/0.582 |
| LapSRN | 8× | 26.15/**0.738** | **24.35**/0.620 | **24.54**/**0.586** |
| TISR (ours) | 8× | **26.18**/**0.738** | **24.35**/**0.623** | 24.53/**0.586** |

TABLE 2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Method | #Param k | SET5 PSNR/SSIM | SET14 PSNR/SSIM | BSDS100 PSNR/SSIM |
| Bicubic | -/- | 30.41/0.869 | 27.55/0.775 | 27.22/0.741 |
| A+ [[25](#_ENREF_25)] | -/- | 32.62/0.909 | 29.15/0.820 | 28.31/0.785 |
| RFL [[37](#_ENREF_37)] | -/- | 32.47/0.906 | 29.07/0.818 | 28.23/0.782 |
| SelfExSR | -/- | 32.66/0.910 | 29.18/0.821 | 28.30/0.786 |
| SRCNN | 57 | 32.78/0.909 | 29.32/0.823 | 28.42/0.788 |
| FSRCNN | 12 | 33.18/0.914 | 29.37/0.824 | 28.53/0.791 |
| SCN | 42 | 32.62/0.908 | 29.16/0.818 | 28.33/0.783 |
| VDSR | 665 | 33.67/0.921 | 29.78/**0.832** | **28.83/0.799** |
| DRCN | 1,775 | **33.83**/**0.922** | 29.77/**0.832** | 28.80/0.797 |
| LapSRN | 812 | 33.82/**0.922** | 29.87/**0.832** | 28.82/0.798 |
| TISR (ours) | 488 | 33.82/**0.922** | **29.89**/**0.832** | **28.83**/0.798 |