|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Metrics/models** | **YOLOv5s** | **YOLOv5m** | **YOLOv5l** | **YOLOv5m6** | **YOLOv5l6** | **YOLOv7** | **YOLOv7x** | **YOLOv7w6** |
| **AP50(Chinstrap)** | 87.3% | **92.5%** | **93.1%** | 92.3% | 92.3% | 89.5% | 91.0% | **93.4%** |
| **AP50(Emperor)** | 82.9% | 79.8% | 84.9% | **87.0%** | 84.1% | **88.2%** | **89.9%** | 83.6% |
| **AP50(King)** | 77.2% | **85.0%** | 80.1% | 81.3% | 81.3% | 82.2% | **83.6%** | **83.4%** |
| **AP(Chinstrap)** | 62.9% | 68.4% | **72.1%** | 74.2% | **75.2%** | 71.8% | 70.6% | **76.4%** |
| **AP(Emperor)** | 53.2% | 56.0% | 56.6% | **58.9%** | **58.3%** | 56.7% | **57.4%** | 56.1% |
| **AP(King)** | 51.2% | 58.9% | 62.3% | 64.1% | **65.4%** | 63.4% | **64.9%** | **67.4%** |
| **mAP50** | 82.4% | 85.8% | 86.0% | **86.8%** | 84.8% | 86.6% | **88.2%** | **86.8%** |
| **mmAP(50-95)** | 55.8% | 61.1% | 63.7% | **65.7%** | **66.3%** | 64.0% | 64.3% | **66.6%** |
| **FPS** | **92** | 65 | 33 | 56 | 32 | **83** | 50 | **80** |