

| Method | Paradigms | Perception | | Reasoning | | Training Data | | <i>RH-AUC</i> |
|------------------|-----------|--------------------|--------|--------------------|--------|---------------|-------|---------------|
| | | Acc.(%) \uparrow | Length | Acc.(%) \uparrow | Length | Perc. | Reas. | |
| LLM-R1-3B | RL | 48.7 | 121.9 | 43.8 | 391.8 | 65k | 40k | 0.46 |
| Curr-ReFT-3B | SFT+RL | 50.6 | 133.7 | 42.5 | 472.61 | 6k | 3k | 0.47 |
| Ocean-R1-3B | RL | 52.8 | 131.2 | 45.6 | 414.5 | 20k | 63k | 0.53 |
| R1-OneVision-7B | SFT+RL | 55.7 | 162.9 | 44.2 | 457.3 | 80k | 77k | 0.46 |
| ThinkLite-VL-7B | RL | 63.3 | 110.4 | 50.4 | 435.4 | 62k | 8k | 0.52 |
| OpenVLThinker-7B | SFT+RL | 59.2 | 187.7 | 48.9 | 460.1 | 25k | 25k | 0.54 |
| MM-Eureka-7B | RL | 62.0 | 139.6 | 54.0 | 450.5 | - | 15k | 0.55 |
| MM-R1-7B | RL | 60.3 | 139.6 | 54.0 | 430.0 | - | 6k | 0.57 |
| Ocean-R1-7B | RL | 62.3 | 90.4 | 51.8 | 262.2 | 20k | 63k | 0.63 |

Table 1: Comparison of model performance on *RH-Bench*, including task-specific accuracy and *RH-AUC* scores. **Perc.** and **Reas.** respectively denote training data for visual perception and reasoning.