

	FlyPi	Ethoscope	FreemoVR	Stytra	Bonsai	PiVR
Closed-loop capability	NO	YES	YES	YES	YES	YES
In-built optogenetic capability⁽¹⁾	N/A	YES	Not shown	Not shown	YES ⁽⁷⁾	YES
Minimum loop time⁽²⁾	N/A	250 ms	10 ms	16 ms	8 ms	15 ms
Minimum latency⁽³⁾	N/A	Not documented	60-70 ms	20-50 ms	Not documented	<30 ms
Multiple-point tracking⁽⁴⁾	N/A	NO (centroid)	YES	YES (eye & tail tracking)	NO (centroid)	YES (head, centroid, tail)
Versatility of in-built tracking algorithm⁽⁵⁾	N/A	LOW (flies)	HIGH (small animals)	LOW (fish)	HIGH (fish, flies, rodents)	HIGH (small animals)
Documentation for hardware assembly⁽⁶⁾	Detailed	Detailed	Concise	Concise	N/A	Detailed
Approximate cost of one setup	<\$200 + Monitor	\$100 + \$500 (reg. PC)	~\$4000	\$1000-3000 + \$1000 (powerful PC)	>\$1000 + \$1000 (powerful PC)	\$350-500