

Eighteeth HyperLight Handheld Dental X-Ray Market Comparison

A concise comparison of leading portable dental X-ray systems using published manufacturer and authorized-source specifications.

Feature	Eighteeth HyperLight	DEXIS NOMAD Pro 2	Vatech EzRay Air P	Woodpecker AiRay Lite	MaxRay Cocoon
Tube voltage / current	65 kV / 2.5 mA	60 kV / 2.5 mA	65 kV / 2.5 mA	70 kV / 2 mA	70 kV / 1.7-2 mA
Focal spot	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm
Weight	1.8 kg / 3.9 lb	Approx. 2.5 kg / 5.5 lb	Approx. 1.8-1.9 kg / 4.0-4.2 lb	2.4 kg / 5.3 lb	Approx. 2.2-2.4 kg / 5.0-5.3 lb
Exposure range	0.02-2.0 sec	Preset / receptor dependent	Preset / receptor dependent	Preset; model-dependent	0.05-1.35 sec
Image receptors	Film, digital sensor, PSP	Film, digital sensor, PSP	Film, digital sensor, PSP	Film, digital sensor, PSP	Film, digital sensor, PSP
Operator protection	Internal double lead shielding; lockout; shield configuration	Integrated backscatter shield and internal shielding	Double scatter-shield design	Backscatter shield	Backscatter shield and internal shielding
Workflow advantage	Lightweight, balanced one-hand operation with smart angulation guidance	Established premium handheld platform	Carbon-nano lightweight tube technology	Large-capacity battery and high-frequency tube	Voice prompts and high-capacity battery
FDA status	510(k) K232068	FDA-cleared	FDA-cleared	FDA-cleared model/package dependent	FDA-cleared
Best fit	Practices seeking strong image quality and lower operator fatigue at a value price	Practices prioritizing a premium established brand	Practices prioritizing low weight and compact positioning	Practices prioritizing battery endurance	Practices wanting voice-guided operation

HyperLight advantage: The combination of a 0.4 mm focal spot, 65 kV / 2.5 mA output, 3.9 lb weight, smart angulation support, internal shielding, and FDA 510(k) clearance creates a strong balance of image quality, ergonomics, and value. Specifications may vary by package and market; confirm local registration and operating requirements.