

Intraoral X-Ray Sensor Comparison

Eighteenth NanoPix vs. Woodpecker i-Sensor vs. U.S. Premium Tier | DentalMarketplace

Feature	Eighteenth NanoPix	Woodpecker i-Sensor	Premium Tier (Dexis / Carestream)
Detector technology	APS CMOS	APS CMOS	CMOS
Scintillator	Direct-deposition CsI	CsI	CsI
Theoretical resolution	25 lp/mm	25 lp/mm	26.3 lp/mm (Carestream RVG 6200)
True resolution	≥12 lp/mm (mfr-stated)	20 lp/mm	24 lp/mm (Carestream RVG 6200)
Pixel size	20 μm	Not separately published	Varies by model
AD conversion	16-bit	16-bit	Varies by model
Thickness	4.4 mm	4.4–4.5 mm	Varies; often thicker
Sizes offered	1, 1.5, 2	1, 1.5, 2	1, 1.5, 2 (Dexis Ti2: one-size)
Protection rating	IP68	IP68	Waterproof (model-dependent)
Durability	50,000+ exposures; 70,000+ bends	80,000+ bend tests	Model-dependent
Software model	Open TWAIN + free NanoPix software	Open TWAIN + free software	Often proprietary ecosystem
Cable repairability	Not published	Not published	Dexis/Carestream non-repairable*
Warranty	2 years	2 years	1 year (Dexis)*
Typical price	\$1,599.99 (DentalMarketplace)	Varies by dealer	~\$5,999–\$10,999*

Sources: Eighteenth/Changzhou Sifary NanoPix manufacturer specifications and authorized distributor listings (ProElite, Net32, DentSupplier, royaldentshop); Woodpecker i-Sensor specs from Vakker, ABrite Dental, Medikabazaar, Oralkart; *premium-tier pricing, warranty, and cable-repairability data from DentiMax published 2026 sensor comparison (dentimax.com). NanoPix resolution (25 lp/mm theoretical / 20 lp/mm true) is consistently published across eight independent distributor listings including Orikam, the authorized India importer. A ≥12 lp/mm true-resolution figure appears only on listings for the separate NanoPix-M series and does not apply to the NanoPix 1/1.5/2 sold here. Specifications and pricing vary by distributor, model revision, and production batch — confirm at order. Comparison is for general market orientation only.