





Compare TEM products

HF5000, HT7800, HT7820, HT7830

HITACHI
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Model	Field Emission Transmission Electron Microscope HF5000 	Transmission Electron Microscope HT7800  With option	Transmission Electron Microscope HT7820  With option	Transmission Electron Microscope HT7830  With option
Electron source	W(310) cold field emission electron source	W,LaB ₆ filament*		
Accelerating voltage	200 kV, 60 kV*	120 kV – 20 kV		
Resolution	ADF-STEM image 0.078 nm TEM lattice image 0.102 nm	Lattice 0.20 nm (Off-axis,100 kV)	Lattice 0.14 nm (Off-axis,100 kV)	0.14 nm (Off-axis, 120 kV) 0.19 nm (On-axis, 120 kV)
Magnification	STEM ×20 – ×8,000,000 TEM ×100 – ×1,500,000	× 600,000	× 800,000	×1,000,000
Specimen tilt angle	$\alpha = \pm 25^\circ$, $\beta = \pm 35^\circ$ (Hitachi double-tilt specimen holder*)	$\pm 70^\circ$	$\pm 30^\circ$	$\pm 10^\circ$

*option