

JEM-ARM200F NEOARM

POWERED BY Neo Engine



Improved resolution by "Neo Engine"

- C-FEG with NEO ASCOR -

ASCOR (Advanced STEM Cs corrector) can suppress the six-fold astigmatism aberration which limits resolution after Cs correction. The combination of Cold FEG and ASCOR gives low chromatic aberration and expands the diffraction limit, achieving higher resolution than ever.

Easy and quick automated aberration correction

- Integrated JEOL COSMO™ auto tune -

JEOL COSMO™, the aberration correction software, enables quick high resolution observation by a "NEO algorithm". Now, no special sample is required for corrector tuning.

Enhanced contrast of light elements by "e-ABF"

- Dedicated ABF detector -

An e-ABF (enhanced ABF) image is easily obtained with a newly designed detector.

The e-ABF is observable as a "live image" with realtime signal processing showing enhanced contrast of light atoms.

High signal STEM images over all accelerating voltages

- Perfect sight NEO detector -

The new "perfect sight" detector, which acquires high STEM signals over all accelerating voltages, is integrated into the NEO detector. The detector, which uses hybrid scintillators, enhances the STEM signal 2.0 times at 60 kV and 1.5 times at 200 kV over the previous YAP detector.

Observation under field free condition

- Lorentz lens integrated -

No excitation of the objective lens allows one to observe magnetic domain boundaries in a ferromagnetic specimen. This Lorentz mode comes as standard on the NEOARM.

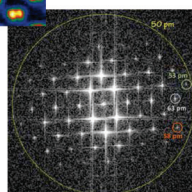
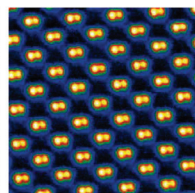
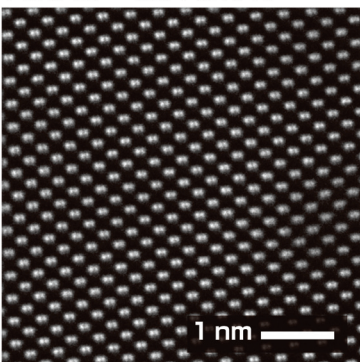
Observation of microscope in a bright room

- Integrated Viewing Camera system -

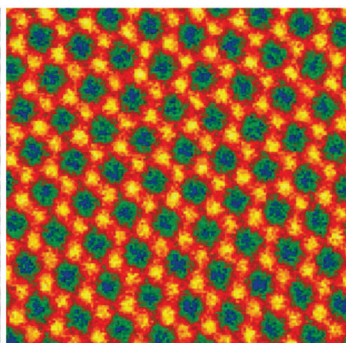
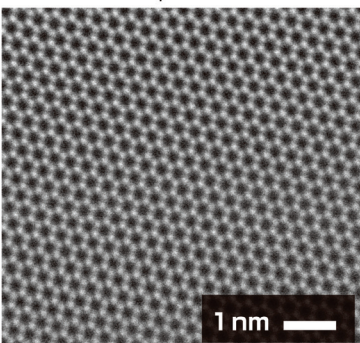
A camera for the viewing chamber is equipped as standard. Sample search, microscope alignment and all other functions are doable just by looking at a PC monitor.

>> Challenge to 60 pm

200 kV - GaN [211]



40 kV - Graphene





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