

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY MATERIALS MANAGEMENT DIVISION Powai, Mumbai 400076.

PR No. 1000023399 (Rfx No. 6100001523) Detailed Technical Specifications for EMSIS Camera

No Parameter Operating 200kV (Compatible with Jeol FEGTEM 200kV Model: JEM 2100F	Sr.		
2 Camera Mount 3 Sensor Type 4 Image Size 5 Size 6 Data Interface Operating 7 System The Imaging software should be able to interface with the Camera with specifications below Smart Averaging: instead of taking a single snapshot, the software cork the camera taking a few samples day everaging in stage in order to avoid imaging. Smart averaging further development of image averaging is disabled automatically with the user is moving the sample stage in order to avoid image smearing. Imaging Software Imaging Software Read of the first operation of the sample over time. We should be able to save the vide AVI format. The frames in the video should also be retrieved. Drift Correction: Sample drifting is a common problem During TEM Im It is due to the vibration of the sample. At high magnification, one can sample stage will move so that this option makes the feature becon center of the image. Camera Mount Interface The Camera with the above specification should be supplied with the connecting Interface with respect to the TEM 200kV Model: JEM 2100 interface The Camera with the above specification should be supplied with the connecting Interface with respect to the TEM 200kV Model: JEM 2100 interface with respect to the TEM 200kV Model: JEM 2100 interface with respect to the TEM 200kV Model: JEM 2100 interface with respect to the TEM 200kV Model: JEM 2100 interface with respect to the TEM 200kV Model: JEM 2100 interface with respect to the TEM 200kV Model: JEM 2100 interface with respect to the TEM 200kV Model: JEM 2100 interface with respect to the TEM 200kV Model: JEM 2100 interface with respect to the TEM 200kV Model: JEM 2100 interface with respect to the TEM 200kV Model: JEM 2100 interface with respect to the TEM 200kV Model: JEM 2100 interface with respect to the TEM 200kV Model: JEM 2100 interface with respect to the TEM 200kV Model: JEM 2100 interface with respect to the TEM 200kV Model: JEM 2100 interface with respect to the TEM 200kV Model: JEM 2100 interface with respect to the TEM 200kV Model: JEM 2		Parameter	Description
Sensor Type CCD sensor or the latest one	1		200kV (Compatible with Jeol FEGTEM 200kV Model: JEM 2100F)
Imaging Software S	2	Camera Mount	Bottom Mounted on Axis
Effective pixel Size Data Interface Operating 7 System The Imaging software should be able to interface with the Camera with specifications and Should be capable with the basic and advance specifications below Smart Averaging: instead of taking a single snapshot, the software content of the camera taking a few snapshots and making an average. In this way signal-to-noise ratio is improved significantly because the noise is rand works especially well when the electron beam is weak. Smart averaging further development of image averaging. In Radius we are able to use imaging averaging averaging for both snapshot and live imaging. Smart averaging means the function of live image averaging is disabled automatically with the user is moving the sample stage in order to avoid image smearing. Live Measurements: A user should be able to measure directly on the image without capturing. HDRI: High Dynamic Range Imaging) If one part of the sample is very and another part is very dark, this mode helps getting good exposure of parts of image. Movie Recording: Should be able to take the video to show the change movement of the sample over time. We should be able to save the vide AVI format. The frames in the video should also be retrieved. Drift Correction: Sample drifting is a common problem During TEM Im It is due to the vibration of the sample. At high magnification, one can sample keep drifting. It is hard to get a sharp high-resolution image whe drifting is present. 'Drift correction' option helps a lot to resolve this prot Click to Centre option: By double-clicking on any feature in the live in the sample stage will move so that this option makes the feature beconcenter of the image. Camera Mount Interface Bracket The Camera with the above specification should be supplied with the connecting Interface with respect to the TEM 200kV Model: JEM 2100	3	Sensor Type	CCD sensor or the latest one
5 Size 6 Data Interface 7 Operating 7 System Windows 10(64 Bit) or higher version The Imaging software should be able to interface with the Camera with specifications and Should be capable with the basic and advance specifications below Smart Averaging: instead of taking a single snapshot, the software of the camera taking a few snapshots and making an average. In this way signal-to-noise ratio is improved significantly because the noise is rand works especially well when the electron beam is weak. Smart averaging further development of image averaging. In Radius we are able to use imaging averaging for both snapshot and live imaging. Smart averaging means the function of live image averaging is disabled automatically with user is moving the sample stage in order to avoid image smearing. Live Measurements: A user should be able to measure directly on the image without capturing. HDRI: High Dynamic Range Imaging) If one part of the sample is very land another part is very dark, this mode helps getting good exposure oparts of image. Movie Recording: Should be able to take the video to show the change movement of the sample over time. We should be able to save the vide AVI format. The frames in the video should also be retrieved. Drift Correction: Sample drifting is a common problem During TEM Im It is due to the vibration of the sample. At high magnification, one can sample keep drifting. It is hard to get a sharp high-resolution image whe drifting is present. 'Drift correction' option helps a lot to resolve this problem of the sample stage will move so that this option makes the feature becond center of the image. Camera Mount Interface Bracket The Camera with the above specification should be supplied with the connecting Interface with respect to the TEM 200kV Model: JEM 2100	4	Image Size	6 Mpixel or Higher
The Imaging software should be able to interface with the Camera with specifications and Should be capable with the basic and advance specifications below Smart Averaging: instead of taking a single snapshot, the software of the camera taking a few snapshots and making an average. In this way signal-to-noise ratio is improved significantly because the noise is rand works especially well when the electron beam is weak. Smart averaging further development of image averaging. In Radius we are able to use imaging averaging for both snapshot and live imaging. Smart averaging means the function of live image averaging is disabled automatically with the user is moving the sample stage in order to avoid image smearing. Live Measurements: A user should be able to measure directly on the image without capturing. HDRI: High Dynamic Range Imaging) If one part of the sample is very land another part is very dark, this mode helps getting good exposure of parts of image. Movie Recording: Should be able to take the video to show the change movement of the sample over time. We should be able to save the video AVI format. The frames in the video should also be retrieved. Drift Correction: Sample drifting is a common problem During TEM Im It is due to the vibration of the sample. At high magnification, one can sample keep drifting. It is hard to get a sharp high-resolution image whe drifting is present. 'Drift correction' option helps a lot to resolve this problem to the sample stage will move so that this option makes the feature becon center of the image. Camera Mount Interface Bracket The Camera with the above specification should be supplied with the connecting Interface with respect to the TEM 200kV Model: JEM 2100	5		16.5 x 16.5 μm² or better
The Imaging software should be able to interface with the Camera with specifications and Should be capable with the basic and advance specifications below Smart Averaging: instead of taking a single snapshot, the software of the camera taking a few snapshots and making an average. In this way signal-to-noise ratio is improved significantly because the noise is rand works especially well when the electron beam is weak. Smart averaging further development of image averaging. In Radius we are able to use imaging averaging for both snapshot and live imaging. Smart averaging means the function of live image averaging is disabled automatically withe user is moving the sample stage in order to avoid image smearing. Live Measurements: A user should be able to measure directly on the image without capturing. HDRI: High Dynamic Range Imaging) If one part of the sample is very land another part is very dark, this mode helps getting good exposure oparts of image. Movie Recording: Should be able to take the video to show the change movement of the sample over time. We should be able to save the video AVI format. The frames in the video should also be retrieved. Drift Correction: Sample drifting is a common problem During TEM Im It is due to the vibration of the sample. At high magnification, one can sample keep drifting. It is hard to get a sharp high-resolution image whe drifting is present. 'Drift correction' option helps a lot to resolve this protein the sample stage will move so that this option makes the feature becon center of the image. Camera Mount Interface Bracket The Camera with the above specification should be supplied with the connecting Interface with respect to the TEM 200kV Model: JEM 2100	6	Data Interface	USB 3 or Higher version
Smart Averaging: instead of taking a single snapshot, the software of the camera taking a few snapshots and making an average. In this way signal-to-noise ratio is improved significantly because the noise is rand works especially well when the electron beam is weak. Smart averaging further development of image averaging. In Radius we are able to use imaging averaging for both snapshot and live imaging. Smart averaging means the function of live image averaging is disabled automatically with the user is moving the sample stage in order to avoid image smearing. Live Measurements: A user should be able to measure directly on the image without capturing. HDRI: High Dynamic Range Imaging) If one part of the sample is very land another part is very dark, this mode helps getting good exposure oparts of image. Movie Recording: Should be able to take the video to show the change movement of the sample over time. We should be able to save the vide AVI format. The frames in the video should also be retrieved. Drift Correction: Sample drifting is a common problem During TEM Im It is due to the vibration of the sample. At high magnification, one can sample keep drifting. It is hard to get a sharp high-resolution image whe drifting is present. 'Drift correction' option helps a lot to resolve this protection of the sample stage will move so that this option makes the feature become center of the image. Camera Mount Interface Bracket The Camera with the above specification should be supplied with the connecting Interface with respect to the TEM 200kV Model: JEM 2100	7	-	Windows 10(64 Bit) or higher version
Camera Mount Interface Bracket The Camera with the above specification should be supplied with the connecting Interface with respect to the TEM 200kV Model: JEM 2100	8		Smart Averaging: instead of taking a single snapshot, the software controls the camera taking a few snapshots and making an average. In this way the signal-to-noise ratio is improved significantly because the noise is random. It works especially well when the electron beam is weak. Smart averaging is a further development of image averaging. In Radius we are able to use imaging averaging for both snapshot and live imaging. Smart averaging means the function of live image averaging is disabled automatically when the user is moving the sample stage in order to avoid image smearing. Live Measurements: A user should be able to measure directly on the live image without capturing. HDRI: High Dynamic Range Imaging) If one part of the sample is very bright and another part is very dark, this mode helps getting good exposure on both parts of image. Movie Recording: Should be able to take the video to show the change or movement of the sample over time. We should be able to save the video in AVI format. The frames in the video should also be retrieved. Drift Correction: Sample drifting is a common problem During TEM Imaging. It is due to the vibration of the sample. At high magnification, one can see the sample keep drifting. It is hard to get a sharp high-resolution image when drifting is present. 'Drift correction' option helps a lot to resolve this problem. Click to Centre option: By double-clicking on any feature in the live image, the sample stage will move so that this option makes the feature become the
	I	Interface	The Camera with the above specification should be supplied with the
THE CAMETA WITH THE ADDIVE SUBCINCATIONS SHOULD BE DIOVIDED WITH COM-	9	DIACKET	
			X-Ray Shielding and Should prove the admissible X-ray leakage levels after
Jeol The Quoted camera compatibility should be certified by the TEM 11 Certification Manufacturer JEOL	,	Jeol	The Quoted camera compatibility should be certified by the TEM
12 Warranty 1-year standard warranty	12	Warranty	1-year standard warranty