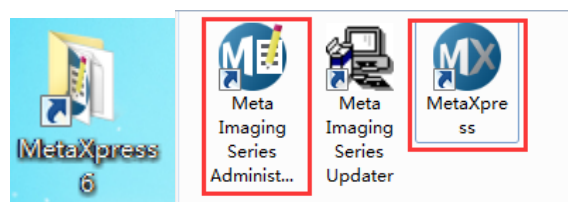# Instructions for using the Tucsen camera in MetaXpress

1.   Installation of MetaXpress

After the MetaXpress is installed, a folder named "MetaXpress 6" will be generated on the desktop. Open the folder to see the icons for the "Meta Imaging Series Administrator" application and the "MetaXpress" application.
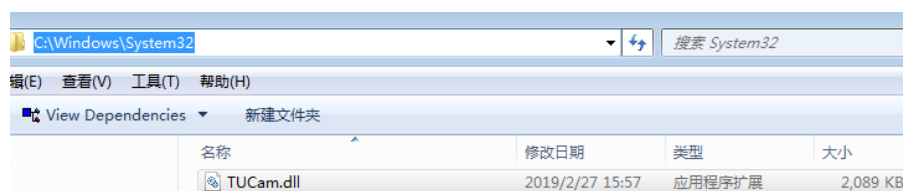

2.   Configuration of Tucsen camera

a.   Download the camera driver TUCam Camera Driver.exe from Tucsen website and install it, to generate CameraLink related plug-ins in the file folder of C:\WINDOWS\system32.

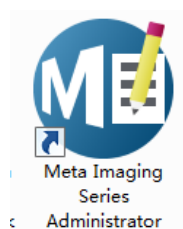b.   Copy the folder "TucsenDhyanaDriver" to the file folder C:\MX6\vinput.
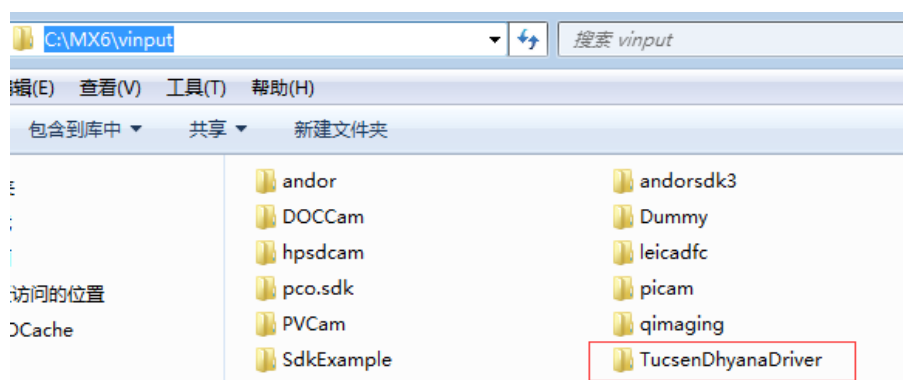
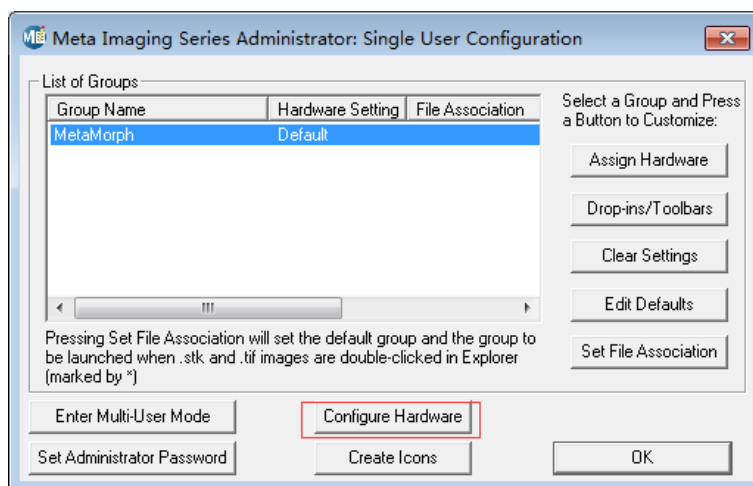c.   Copy the file "TUCam.dll" to the file folder C:\WINDOWS\system32.

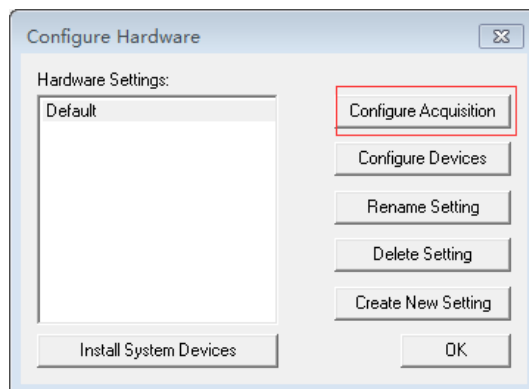## 3.   Configure the Tucsen camera driver under MetaXpress

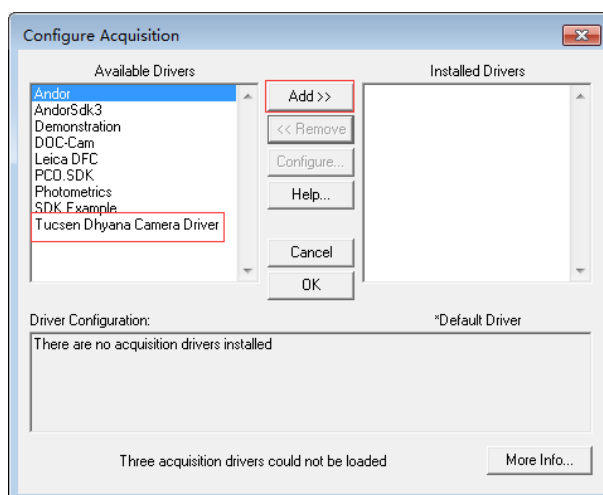a.   Double click and open the "Meta Image Series Administrator" progress

Meta Imaging
Series
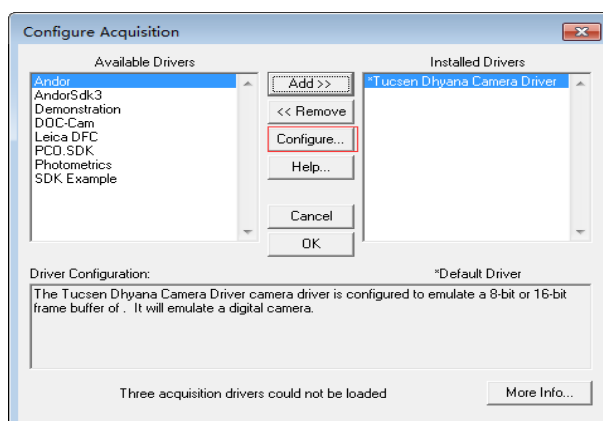Administrator

b. Click the button "Configure Hardware".
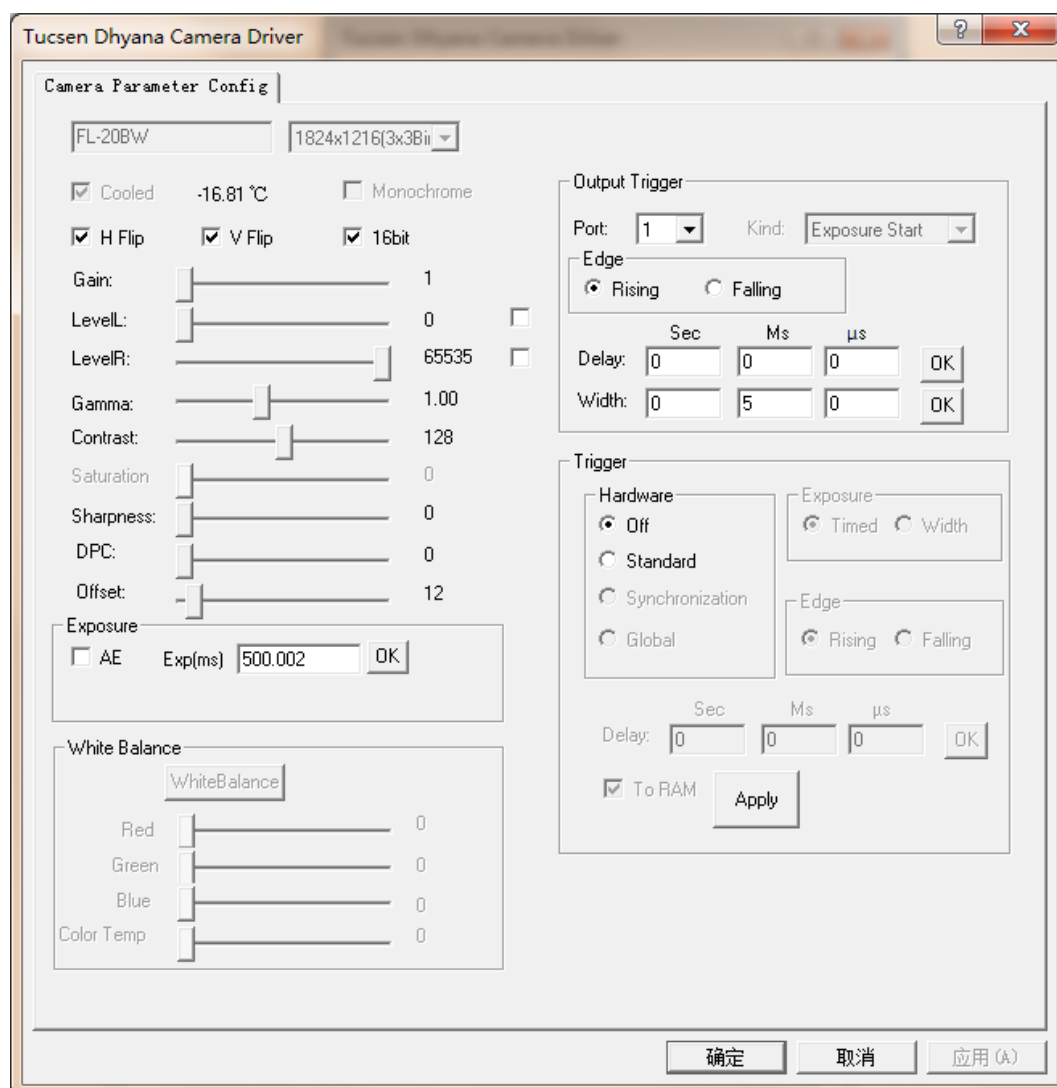

c. Click the button "Configure Acquisition".

d. Select the driver "TucsenDhyana Camera Driver" in the left window and then click "Add>>".

e.   Select the driver "TucsenDhyana Camera Driver" in the right window and then click the button "Configure...".

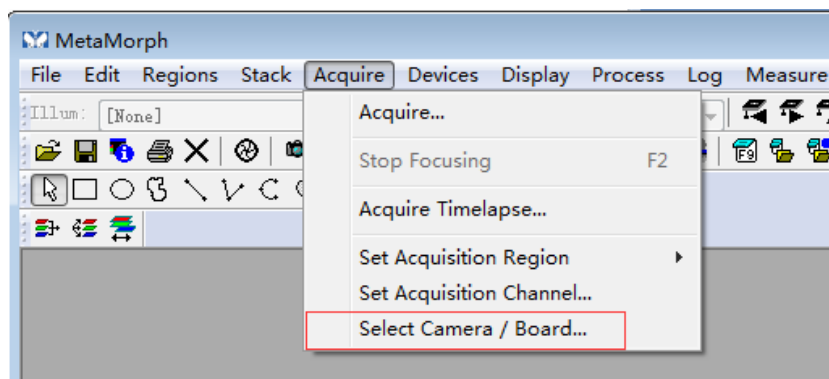f.   Set the parameters of the Tucsen camera.

g. Click the "OK" button repeatedly to exit the configuration window and "Meta Imaging Series Administrator" software.
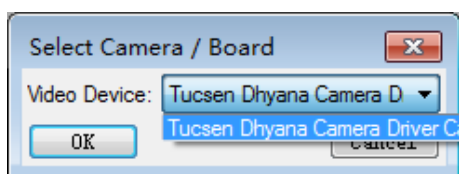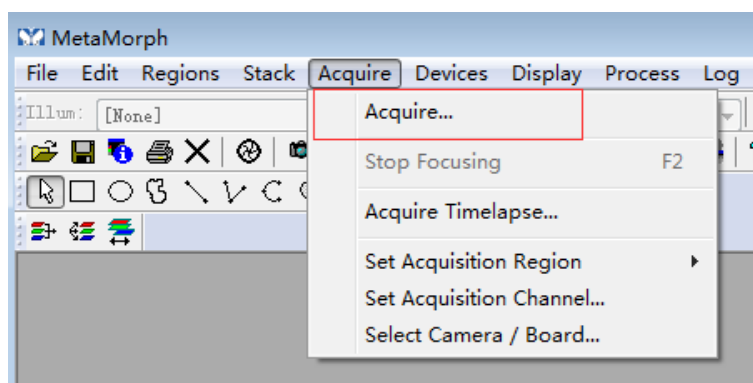
4. Start MetaXpress

a. Select "Select Camera/Board..." from the Acquire menu.

b. Select the "TucsenDhyana Camera Driver"in the drop-down list box.
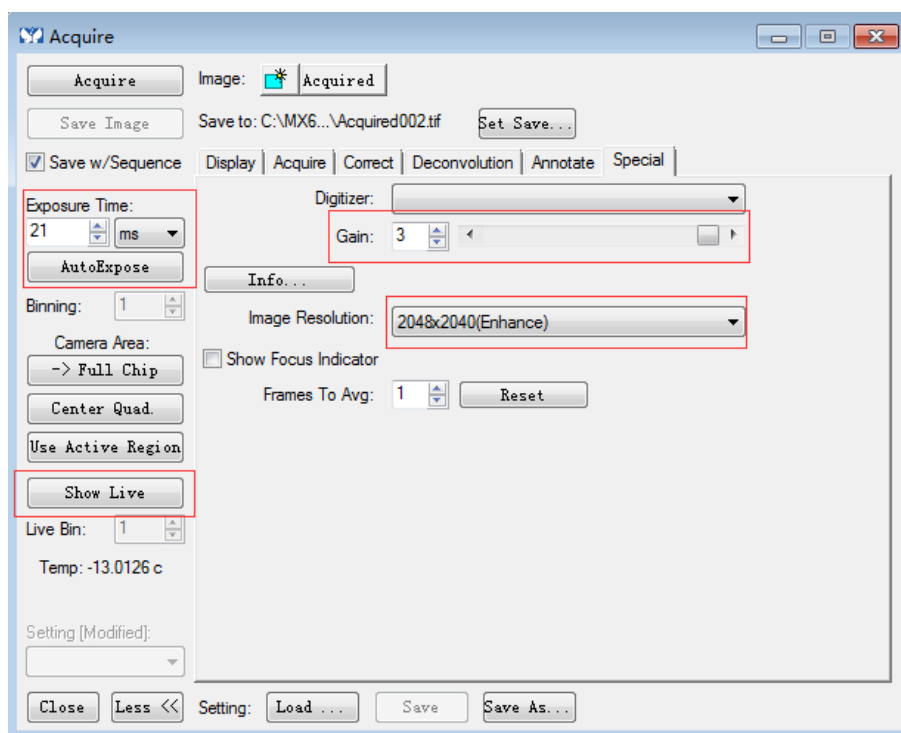

c. Select "Acquire..." from the Acquire menu.

d. Select the "Special"and click the "Show Live" button to bring up the image preview window.
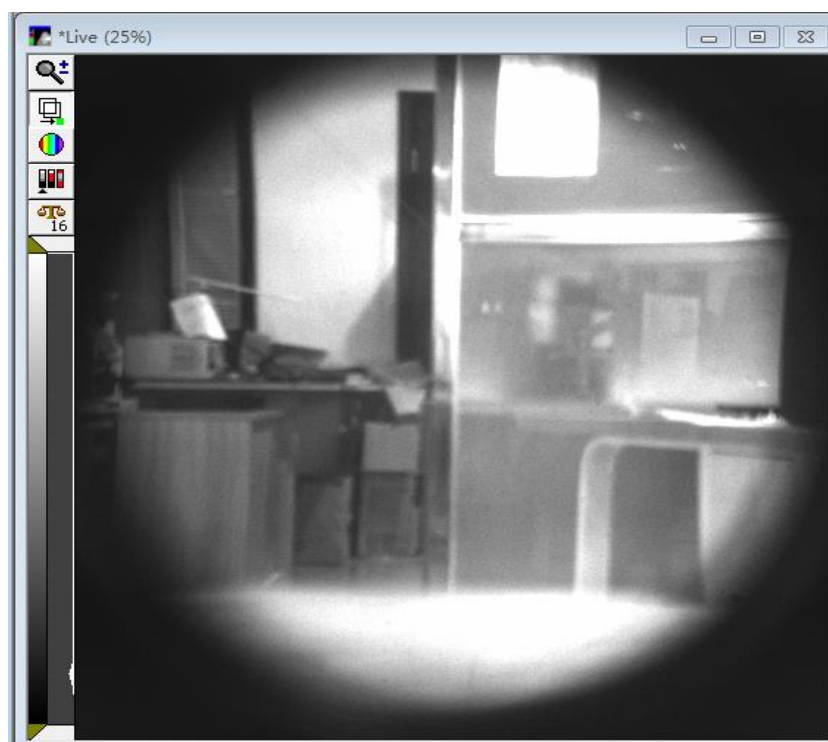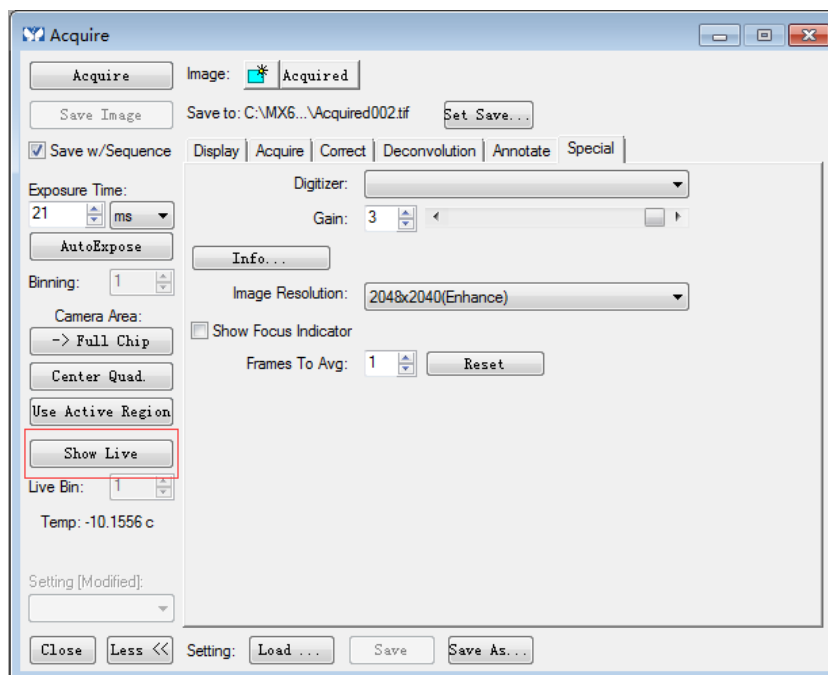
e. In the preview process, camera parameterscan be adjusted, such as Exposure time, Gain, Resolution, displayed temperature and displayed camera frame rate.When starting preview, only the camera frame rate is displayed.

f. If the preview Image is not normal, check whether the parameters of Image Scaling in the "Display" are as shown below.
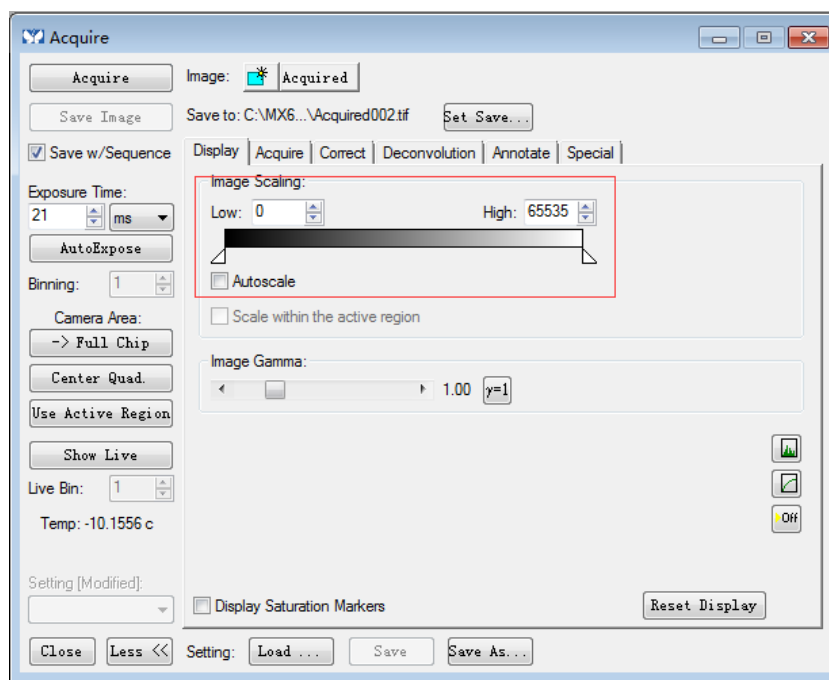
5. Notes

a. The Tucsen camera driver only supports the Windows operating system.

b. Tucsen camera driver does not support hot plugging. Connect the camera and then start MetaXpress, stop previewing before unplugging the camera.

c.   When the computer is connected to a different type of Tucsen camera, repeat step 3.

d.   The generated camera configuration file is in the C:\MX6 directory, and the plugin configuration file is in the C:\MX6\vinput\TucsenDhyanaDriver directory.

e.   Currently we only have 64-bit software, so only compile x64 plug-ins.Test version MetaXpress (64-bit) Version 6.0.0.1648 April 09.2015, drive Sentinel Protection Installer 7.6.1.msi

f.   Enlarging the software preview window will cause the frame rate to drop, which will not reach the maximum frame rate of the camera.This can be achieved by shrinking the window or reducing the resolution.

g.   Only Dhyanacooling cameras and FL 20BW are currently supported.

h.   The frame rate is unstable and will be affected by level, window size and resolution.

i.   The trigger input and trigger output functions cannot distinguish the configuration parameters of different cameras.

j.   Trigger does not support software trigger, only support hardware trigger.

k.   The 0001 firmware version of Dhyana 95 does not support STD mode.