



Figure 5. The main screen design of the touch screen

4.3 Experimental commissioning and operation

After completing the circuit connection and software programming, the program will be downloaded to the PLC and the touch screen when the hardware device is detected to be correct, and joint commissioning is carried out through the host computer and the touch screen.

The preparation of nano-fiber membrane can be conducted after determining that the control mechanism can operate stably and accurately for a long time; and the nano-fiber membrane can be obtained after the completion of parameter setting. Figure 6 shows the prepared nanofiber membrane.



Figure 6. Two-dimensional nanofiber membrane

5. CONCLUSION

Based on the full understanding of the principle and research status of the two-dimensional nanofiber membrane preparation by electrostatic spinning, a preparation system of nanofiber membrane based on PLC is designed with distinctive layers and rigorous layout, which is convenient for postmaintenance. After debugging, the entire electrostatic

spinning system has been able to carry out stable, accurate and reliable operation for a long time, showing excellent field application effect and possessing certain application and promotion value.

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