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Abstract
In the recent years, ozone layer in atmosphere was reduced years by years, aging skin and skin cancer by massive ultraviolet radiant on earth, mid-wave ultraviolet (UVB) can cause skin swollen, long-wave ultraviolet (UVA) can cause skin to tan, above will make skin long-tern destruction, has this to be possible to know the ultraviolet ray to have the very big injury to the human body skin, also each person's skin can spreads it to guard against the exposing to the sun quantity not to be all same, also the correspondence guards against exposes to the sun the time not to be same, therefore, classify the skin color.
This thesis designed by the HT46R24 micro-controller to be allowed to detect color-recognized device, and install the human skin color, designed by the HT46R46E micro-controller to be allowed detect and display UV index, also set time and portable convenience, and use color recognizing makes the non- contact the way to survey user's skin color, by LCD demonstration survey skin color value, also transports the skin color value to the UV value by the LCD monitor in, the UV value by the LCD monitor is surveying the outdoors ultraviolet ray index, and carries on with user's skin color value compares to after, the suggestion use guards against exposes to the sun the fluid, finally by the UV monitor demonstrated how long time the user does need to make up scratches guards against exposes to the sun the fluid.
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