These instructions provide you with the basic procedure for using the Color Reader CR-20. See the CR-20 Operation Manual for a detailed description on how to set or use the instrument.

### Names of Parts

LCD screen  
Power button  
Sample surface aperture  
Battery compartment cover  
Target mask  
Tripod socket  
Strap holder  
AC adapter socket  
USB terminal  
Operation keys  
READY lamp  
STATUS lamp  
Strap holder

### Display Language (When first turning the CR-20 ON)

When first turning the instrument ON after purchasing, a message that reads, “Please select language.” will be displayed. One of two languages can be selected for the display language: English or Japanese.

1. Select the desired language and confirm.
2. Go back to the <MENU> screen.

Here, the selection frame is pointing to “Back”.

> The selected language is English.

### Preparations

Supply power to the instrument in one of the manners described below:

1. Battery  
2. USB bus power  
3. AC adapter (Optional Accessories)

### Turning the Power ON

Press and hold POWER for about 1 second.

The display of the instrument shows “Perform white calibration” and the Ready lamp illuminates blue.

### White Calibration

Place the instrument on the white calibration cap.

The white calibration will be performed, and the measurement screen will be displayed.

### Measurement

Remove the instrument from the white calibration cap, and set the sample surface aperture on the sample to measure.

Measurement will be performed, and the results will be displayed on the screen.

### Confirmation of the average

While the measurement is displayed, quickly press the AVERAGE button.

The average of the measurement results up to that point will be displayed. Press the measurement button again to continue measuring.

### Memo

When a calibration error occurs, the buzzer will beep three times on the third try, and “Calibration Error” will be displayed. Click the MENU/OK button, check that the white calibration cap is correctly attached, and perform white calibration again.

When making measurements continuously
Press the measuring button again.

When making measurements multiple times
Press the measuring button again.

When resetting measurement results
Press and hold the AVERAGE button for at least 1 second.

Memo
When a calibration error occurs, the buzzer will beep three times on the third try, and “Calibration Error” will be displayed. Click the MENU/OK button, check that the white calibration cap is correctly attached, and perform white calibration again.

Using the PC application program allows you to view data saved in the instrument or to store the data in the PC. See the Operation Manual for a detailed description on how to set or use the instrument. Before connecting the instrument to a PC, carefully read “Connecting to a PC” in the separate sheet “Before using Color Reader CR-10 Plus/CR-20”.

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