



Klein K-10 Non-Contact Color Meter Quick Start Guide

Thank you for purchasing a Klein Instruments **K-10 Non-Contact Color Meter** from SpectraCal. The K-10 is a reference class non-contact optical color meter with superb accuracy, the fastest read times you will find, superior performance at low light, and extremely high light level measurement capability. The K-10 is unmatched in sensitivity, stability and speed.

Included Parts

The cosine receptor/ambient filter is to be used with the K-10, when pointed directly at a Projector.



The extension tube and rubber contact hood are to be used together when making contact with a flat panel display.





Klein K-10 CalMAN Setup Guide

Required CalMAN Version

- Any version is acceptable

USB Driver

- Uses FTDI chip driver (www.ftdichip.com)

USB Driver Install

1. Install the CalMAN [Device Driver Kit v2.2](#).
2. Plug the Klein K-10 into a USB port on your computer. Windows 7 should automatically detect the K-10 device driver if you have installed the CalMAN Device Driver Kit.

If the USB Driver does not install properly:

3. Right click on Computer/My Computer and select *Properties*. Or go to the Control Panel and open the Device Manager.
4. Open Device Manager. In the menu tree you will see a USB serial device that is not installed (yellow exclamation).
5. Right click on the conflicted device and select *Update Driver*. Select *Install From A Specific Location*, locate the Klein folder in the Device Driver folder in the Program Files directory. It may ask you to install the driver twice; this is normal. Go through the same process and the same location for the driver.

CalMAN Connection Procedure

1. On the Meter Settings page, click *Find Meter*.
2. On the *Find Meters* popup dialog:
 - a. Leave Com Port set to *auto*
 - b. Select “Klein Instruments meters (RS-232, USB)”
 - c. Click *Search*



Meter Settings Options

Meter Mode (Target Display Type)

- LCD Direct View
- LCD Direct View (LED Backlight)
- OLED Direct View
- CRT Direct View
- Plasma
- Rear Projector (CRT)
- Rear Projector (UHP)
- Front Projector - facing projector (CRT)
- Front Projector - facing screen (CRT)
- Front Projector - facing projector (UHP)
- Front Projector - facing screen (UHP)
- Front Projector - facing screen (LED)
- Ambient Light

Select the Meter Mode that corresponds to the display you wish to measure or calibrate.

Sync Mode

- Auto (default)
- Off

Standard Exposure Mode

- 1 Sample
- 3 Samples (default)
- 5 Samples
- 10 Samples
- 20 Samples

Low Light Handler

Meter Positioning

Flat Panels / Rear Projectors

The K-10A ships with a read head boot which can be used to place the K-10A right up against a display screen. The boot is made of soft rubber so that you need not worry about damaging the surface of the display. Because it blocks all ambient light, the read head boot makes the K-10A ideal for measuring reflective displays such as plasmas.

Front Projectors



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