

CaIMAN **Setup Guide**

UPRtek MK550T Spectroradiometer

Rev. 1.1

Introduction

The UPRtek MK550T Spectroradiometer can be connected to and controlled by CalMAN to perform display measurements.



Figure 1. UPRtek MK550T Spectroradiometer.

CalMAN Required Version

- Version 5.8.1 or later

MK550T Spectroradiometer Control Connection

- Mini USB port (USB 2.0)

MK550T USB Device Driver

- Microsoft HID device driver, loaded automatically by CalMAN

CalMAN Meter Connection

1. Connect the UPRtek MK550T USB port to a USB port on the CalMAN computer, and then launch CalMAN. CalMAN will automatically connect to the MK550T.
2. If the MK550T is plugged into the CalMAN computer after CalMAN is open, the meter can be added by clicking the *Find Meter* button on the CalMAN *Meter Settings* tab.
 - a. On the Find Meters dialog (Figure 2), check the option box for “UPRtek MK550T (USB).”
 - b. Click *Search*.

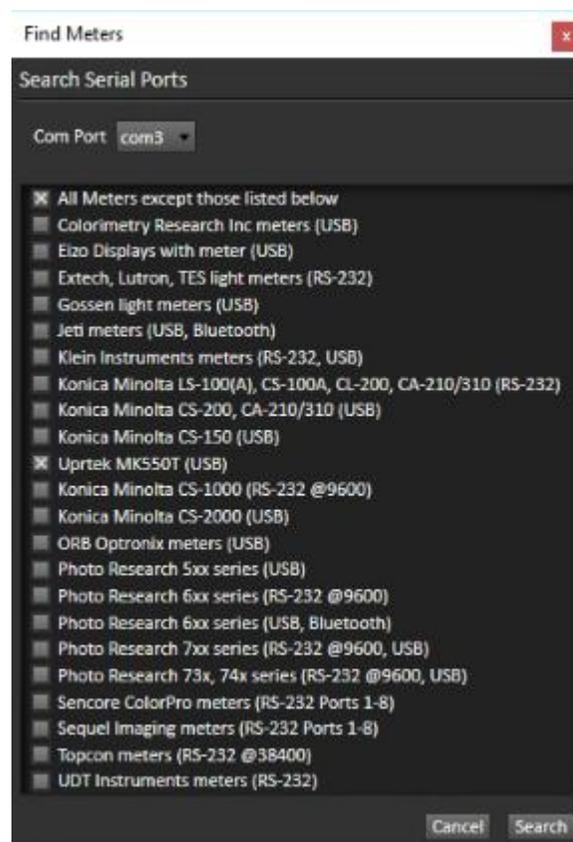


Figure 2. CalMAN Find Meters dialog for connecting the UPRtek meter to CalMAN.

3. On the CalMAN *Meter Settings* tab (Figure 3):
 - a. *Meter Mode (Target Display Type)* - You can select one of the 20 custom modes the meter supports. Each mode can contain a user-defined meter matrix for measuring a specific panel type. If no matrices have been uploaded to the meter, the selected meter mode does not matter.

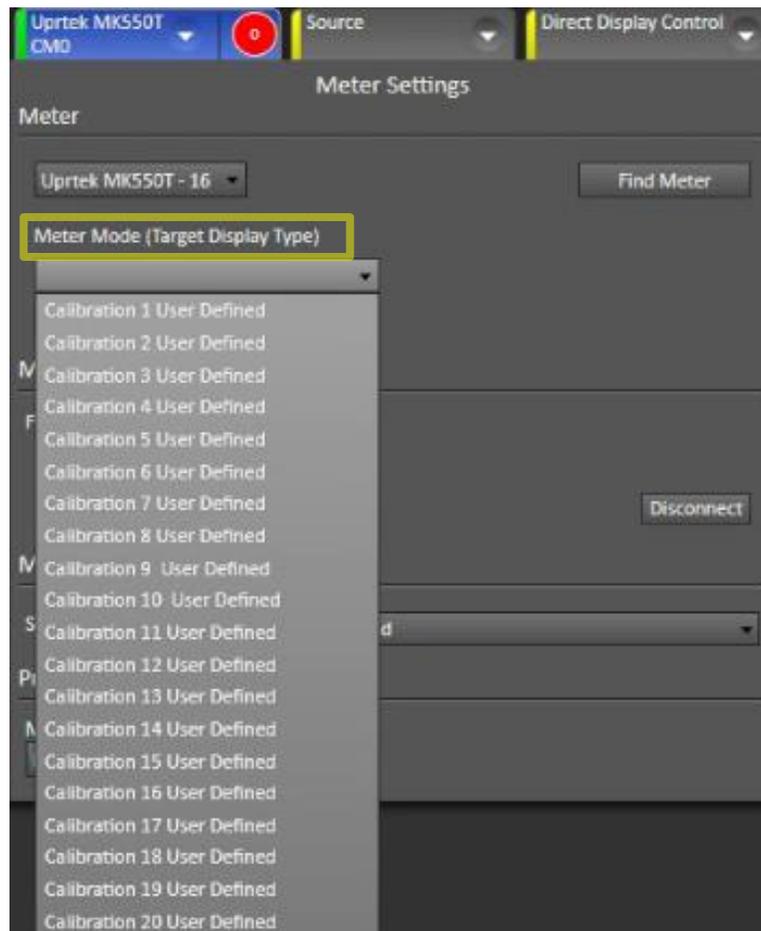


Figure 3. CalMAN Meter Settings tab, highlighting the Meter Mode option.

- b. *Initialize Meter* - Before using the meter, a dark calibration must be performed with the meter lens cap in place over the lens. To begin this dark calibration process, click the "Initialize Meter" button (Figure 4).

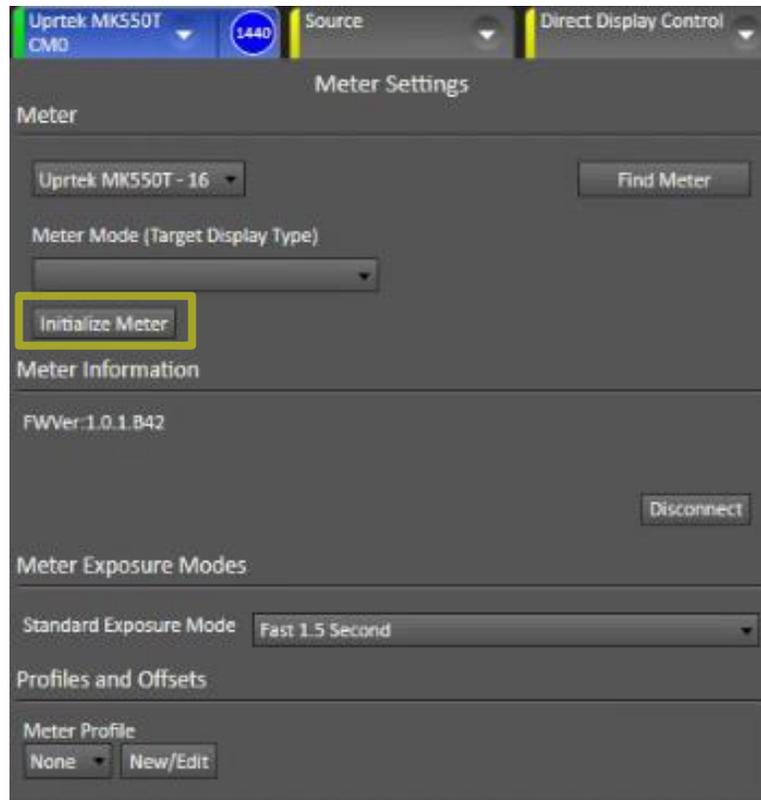


Figure 4. CalMAN Meter Settings tab, highlighting the Initialize Meter button.

At the following Meter Initialization screen (Figure 5), insure that the meter lens cover is in place, then click the "Initialize Meter" button.

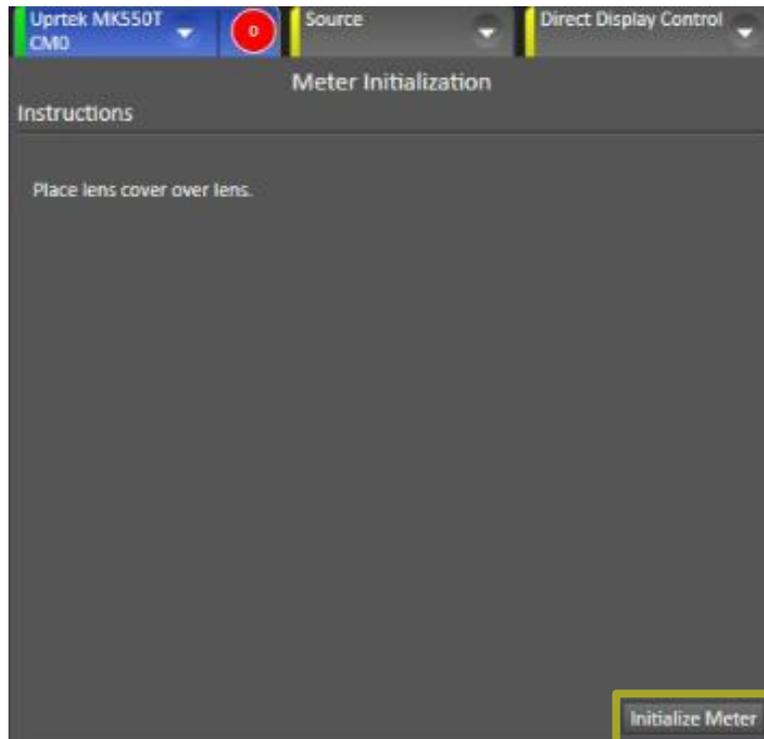


Figure 5. CalMAN Meter Settings tab, with meter initialization instructions.

The progress bar will cycle for about 10 seconds while the meter is being dark calibrated (Figure 6).

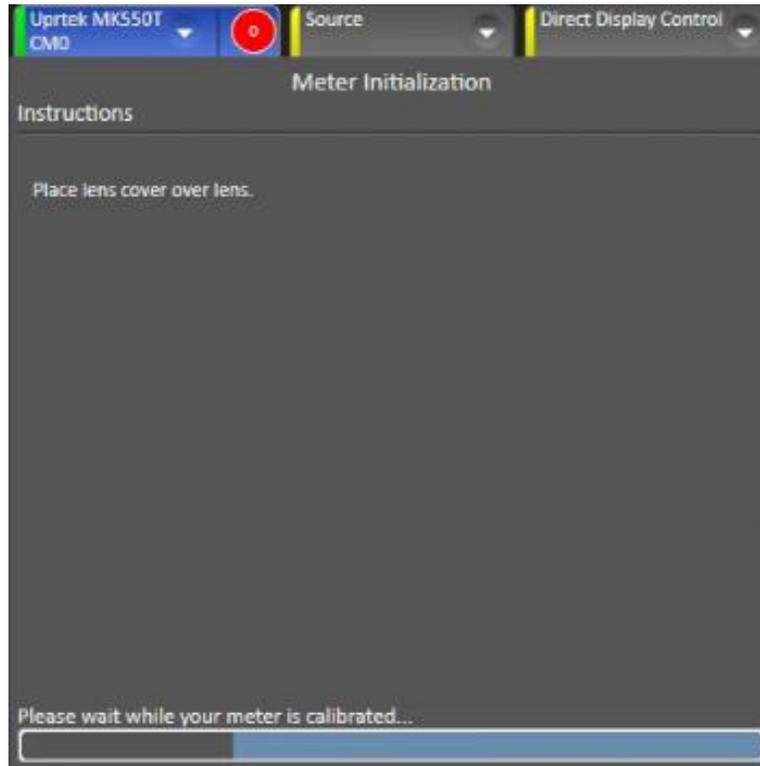


Figure 6. CalMAN Meter Settings tab, indicating meter initialization progress.

Remove the lens cover to begin the CalMAN measuring session.

- a. *Standard Exposure Mode* – Different meter exposure modes will yield optimum results with different display technologies. The “Fast 1.5 Second” mode is default. You may wish to check for the fastest exposure mode that yields stable measurements in a Continuous Read mode (Figure 7).

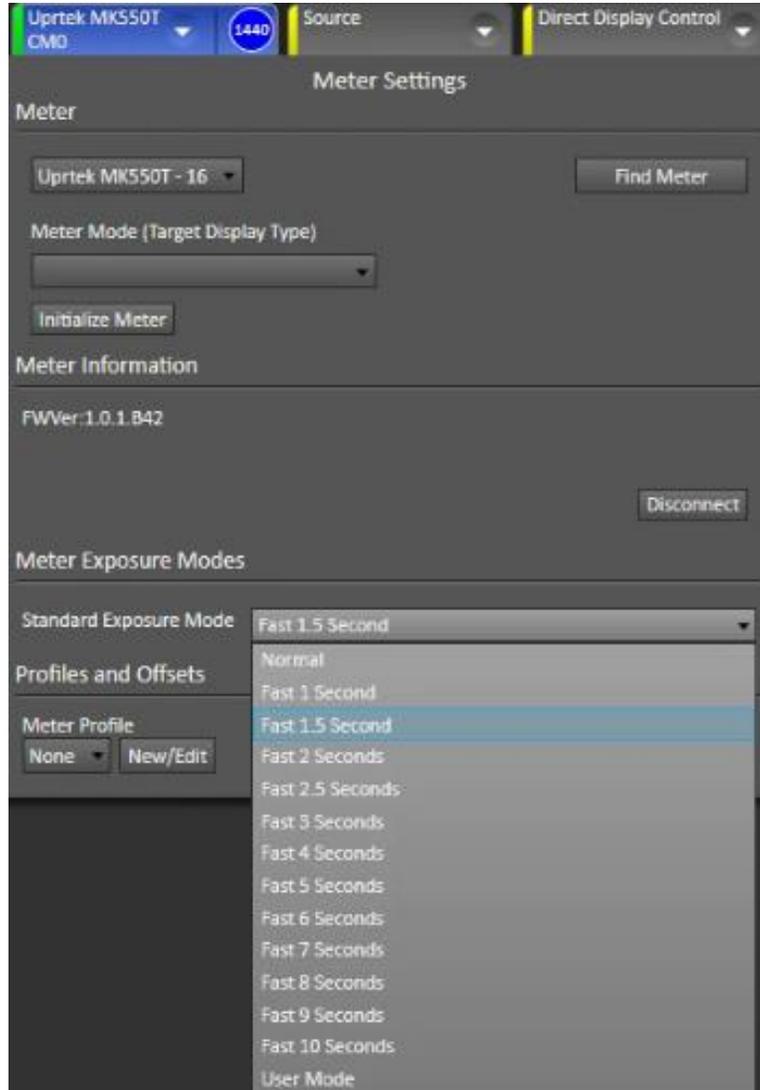


Figure 7.

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About Portrait Displays

Portrait Displays, Inc., since 1993, is a leading application software provider (ASP) for PC, smartphone, and tablet displays. The Portrait Displays team now includes **SpectraCal**, the world's leading provider of video display calibration software. The combined companies offer value-added, feature-rich solutions to both OEM display manufacturers and end users seeking improved accuracy and manageability of their displays.

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