CalMAN 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)."
- Find Meters Search Serial Ports Com Port com3 -X All Meters except those listed below Colorimetry Research Inc meters (USB) Elzo Displays with meter (USB) Extech, Lutron, TES light meters (RS-232) Gossen light meters (USB) Jeti meters (USB, Bluetooth) Klein Instruments meters (RS-232, USB) Konica Minolta LS-100(A), CS-100A, CL-200, CA-210/310 (RS-232) Konica Minolta CS-200, CA-210/310 (USB) Konica Minolta CS-150 (USB) Uprtek MK550T (USB) Konica Minolta CS-1000 (RS-232 @9600) Konica Minolta CS-2000 (USB) ORB Optronix meters (USB) Photo Research 5xx series (USB) Photo Research 6xx series (RS-232 @9600) Photo Research 6xx series (USB, Bluetooth) Photo Research 7xx series (RS-232 @9600, USB) Photo Research 73x, 74x series (RS-232 @9600, USB) Sencore ColorPro meters (RS-232 Ports 1-8) Sequel Imaging meters (RS-232 Ports 1-8) Topcon meters (RS-232 @38400) UDT Instruments meters (RS-232) Cancel Search
- 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).

Uprtek MKS50T VIAN Source	Direct Display Control
Meter Settings	
Meter	
Uprtek MK550T - 16 ·	Find Meter
Meter Mode (Target Display Type)	
Initialize Meter	
Meter Information	
FWVer:1.0.1.842	
	Disconnect
Meter Exposure Modes	
Standard Exposure Mode Fast 1.5 Second	•
Profiles and Offsets	
Meter Profile None New/Edit	

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).

Uprtek MKS50T	40 Source	Direct Display Control
2	Meter Settings	
Meter		
Uprtek MK550T - 16 Meter Mode (Target Disp Initialize Meter	lay Type)	Find Meter
Meter Information		
CONTRACTOR CONTRACTOR OF CONTRACTOR		
Meter Exposure Modes	Fast 1.5 Second	Disconnect
Meter Exposure Modes Standard Exposure Mode	Fast 1.5 Second	Disconnect
Meter Exposure Modes Standard Exposure Mode Profiles and Offsets	Fast 1.5 Second Normal Fast 1 Second	Disconnect
Meter Exposure Modes Standard Exposure Mode Profiles and Offsets Meter Profile	Fast 1.5 Second Normal Fast 1 Second Fast 1.5 Second	Disconnect
Meter Exposure Modes Standard Exposure Mode Profiles and Offsets Meter Profile None New/Edit	Fast 1.5 Second Normal Fast 1 Second Fast 1.5 Second Fast 2 Seconds	Disconnect
Meter Exposure Modes Standard Exposure Mode Profiles and Offsets Meter Profile None New/Edit	Fast 1.5 Second Normal Fast 1 Second Fast 1.5 Second Fast 2 Seconds Fast 2.5 Seconds	Disconnect
Meter Exposure Modes Standard Exposure Mode Profiles and Offsets Meter Profile None New/Edit	Fast 1.5 Second Normal Fast 1 Second Fast 1.5 Second Fast 2 Seconds Fast 2.5 Seconds Fast 3 Seconds	Disconnect
Meter Exposure Modes Standard Exposure Mode Profiles and Offsets Meter Profile None New/Edit	Fast 1.5 Second Normal Fast 1 Second Fast 1.5 Second Fast 2 Seconds Fast 2.5 Seconds Fast 3 Seconds Fast 4 Seconds	Disconnect
Meter Exposure Modes Standard Exposure Mode Profiles and Offsets Meter Profile None New/Edit	Fast 1.5 Second Normal Past 1 Second Fast 1.5 Second Fast 2.5 Seconds Fast 2.5 Seconds Fast 3 Seconds Fast 4 Seconds Fast 5 Seconds	Disconnect
Meter Exposure Modes Standard Exposure Mode Profiles and Offsets Meter Profile None New/Edit	Fast 1.5 Second Normal Past 1 Second Fast 1.5 Second Fast 2 Seconds Fast 3 Seconds Fast 3 Seconds Fast 4 Seconds Fast 5 Seconds Fast 5 Seconds Fast 6 Seconds	Disconnect
Meter Exposure Modes Standard Exposure Mode Profiles and Offsets Meter Profile None New/Edit	Fast 1.5 Second Normal Past 1 Second Fast 1.5 Second Fast 2 Seconds Fast 2 Seconds Fast 3 Seconds Fast 4 Seconds Fast 5 Seconds Fast 5 Seconds Fast 6 Seconds Fast 7 Seconds	Disconnect
Meter Exposure Modes Standard Exposure Mode Profiles and Offsets Meter Profile None New/Edit	Fast 1.5 Second Normal Past 1 Second Fast 1.5 Second Fast 2.5 Seconds Fast 2.5 Seconds Fast 3 Seconds Fast 4 Seconds Fast 5 Seconds Fast 5 Seconds Fast 6 Seconds Fast 7 Seconds Fast 8 Seconds	Disconnect
Meter Exposure Modes Standard Exposure Mode Profiles and Offsets Meter Profile None New/Edit	Fast 1.5 Second Normal Past 1 Second Fast 1.5 Second Fast 2 Seconds Fast 2 Seconds Fast 3 Seconds Fast 4 Seconds Fast 5 Seconds Fast 6 Seconds Fast 7 Seconds Fast 8 Seconds Fast 9 Seconds	Disconnect

Figure 7.

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About Portrait Displays

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