1. Go to the IOS App Store online and Install the NSP32 nanoLambda App on your I-phone, or I- Pad \*Example procedures are based on the IOS download





#### Please Note:

You must be running IOS software on your phone or tablet/I-Pad newer than 14.5.1



# 2. The Nano XL-500



## 3. Start Up Basics



Turn on the XL-500

Green LED blinks for BLE (Bluetooth) pairing



Run the App



**Opening Screen** 



Select NSP32-

Spectrometer

CCT: - LUX: -CRI: - PPFD: -

all 🕆 🗖

7:10 **1** App Store

Nsp32 Spectrometer

**Device connected** 

64% AA799E7A-..

#### Live Spectrum



"SPD" Total Spectral Power Distribution



## 4. Different Screens Show Values

(access screens by sliding your finger horizontally across the screen or touching the screen name itself)





PPFD for Agriculture (Photosynthetic Photon Flux Density 400-700nm)



5 Different Lux Values for HCL (Human Centric Lighting)



COLOR CIE1931 XYZ, xy



COLOR CIE1976 u' v'





# 4. Settings: Using the Nano for "Continuous Recording"

= Touch Here







• Frame Average > 10 is recommended

## 5. The Main Menu





## 6. How to Record and Save Each Measurement Data Result



When you click the file, the data will show the graph and data for all 5 screens



## 6. Recording Data Over a Period of Time: Using the Preset Value Setting



Maximum number of recorded files on the unit is 8192 over a session. Be sure to save recorded data as a new session will over-write existing data



# 7. Recording : Using a Custom Value Setting (Frequency Measured in Seconds) Step 1



Maximum number of recorded files on the unit is 8192 over a session. Be sure to save recorded data as a new session will over-write existing data



# 8. Recording : Using a Custom Value Setting ... (Frequency Measured in Seconds) Step 2



= Touch Here

## 8. Recording : Custom Time Setting (Frequency Measured in Seconds) Step 3





## 9. Recording and Saving Records

.5e-3

Recording ...





10:49 Nsp32 Spectrometer 62% **Recording status:** 1/288 Recording status: Progress: 0.3% (1 / 288) Max num. of allowed records: 8192 First record time: 2021-11-30 10:48:49 Last record time: 2021-11-30 10:48:49 Next record time: 2021-11-30 10:53:49 Record interval(sec): 300 Integration time(index) = 287 Frame average number = 10

**Recording Finished Touch Save Button** 



= Touch Here







608

all 🕆 💻

1/8192

LUX: 125.7

742 876 1010

•

PPFD: 1.7

**Device connected** 

\*

#### 10. See Data and Data Export



• File location in IOS



## 10. Find Exported File in IOS File System

#### Find File Manager











WARNING: Do not delete this Database index file before exporting spectrum files to a computer or you will lose your data



## 11. Send/Share a File

Select File to Share





#### Share File using email or other method



