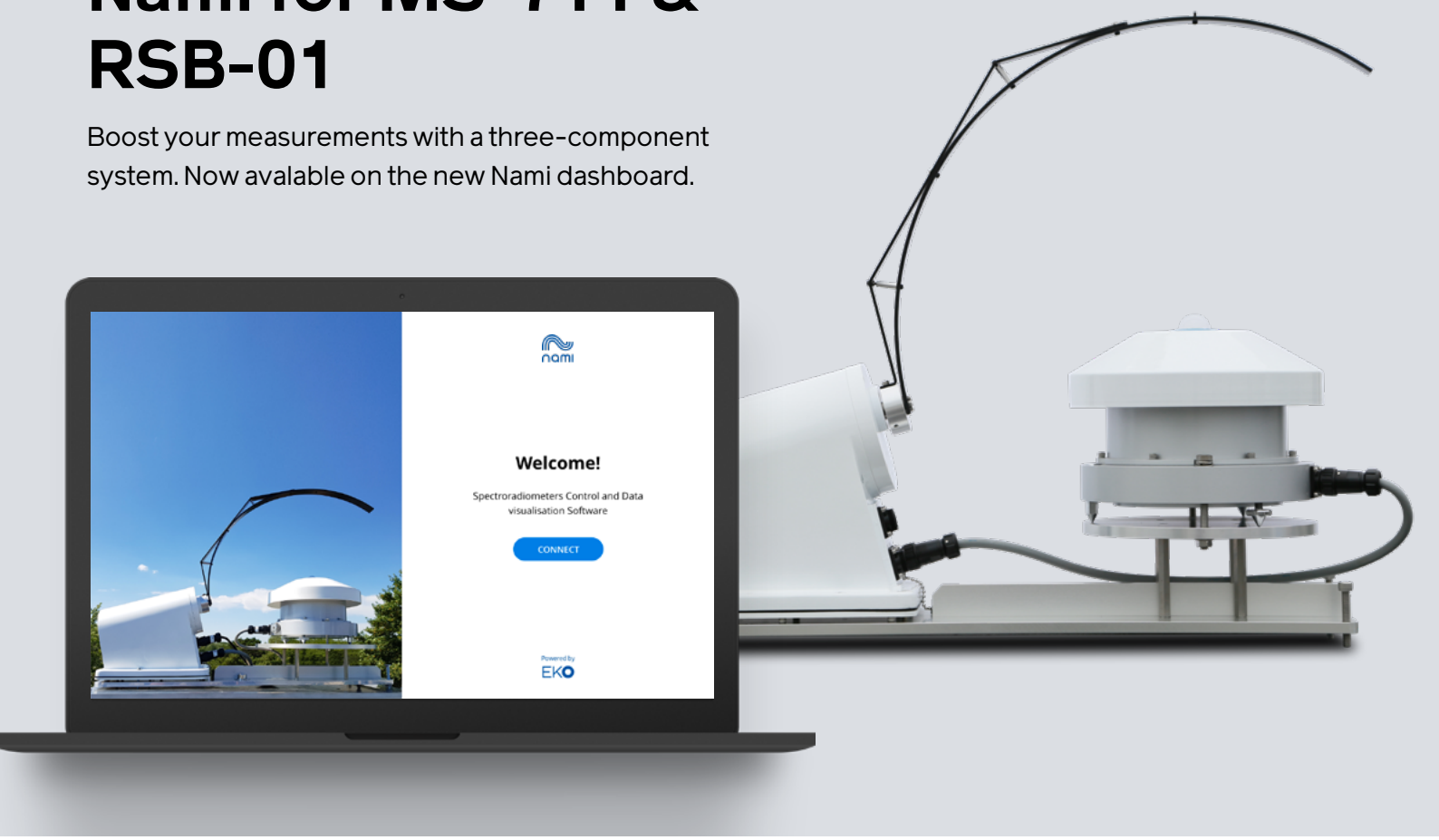
Nami for MS-711 & RSB-01

Boost your measurements with a three-component system. Now avalable on the new Nami dashboard.



Recently, EKO's RSB-01 Rotating Shadow Band and MS-711 spectroradiometer customers have been able to download and use the latest Nami spectroradiometer software. Nami, the Japanese word for wave provides users with a new more powerful spectroradiometer software platform.

While earlier in 2019, EKO made a general announcement of the launch of this software, we wanted to follow up with a short introduction to some of the features users can expect to take advantage of when upgrading to Nami.
In the past, EKO had two software packages for the spectroradiometers, WSDisp.exe for visually inspecting saved spectra and WSDac.exe for instrument communications and spectral measurements. The following page shows two typical screens from these previous software packages a user would see.

EKO now follows the conventional Dashboard display found in all of our favorite software. The Dashboard screen is where each user will start their Nami experience. In moving to more intelligent software and sensors, the Nami dashboard provides the users with an easy to navigate screen where the software initiates communications and provides feedback to the user. This will allow users to more quickly diagnose communication problems from the software rather than only physically checking connections.

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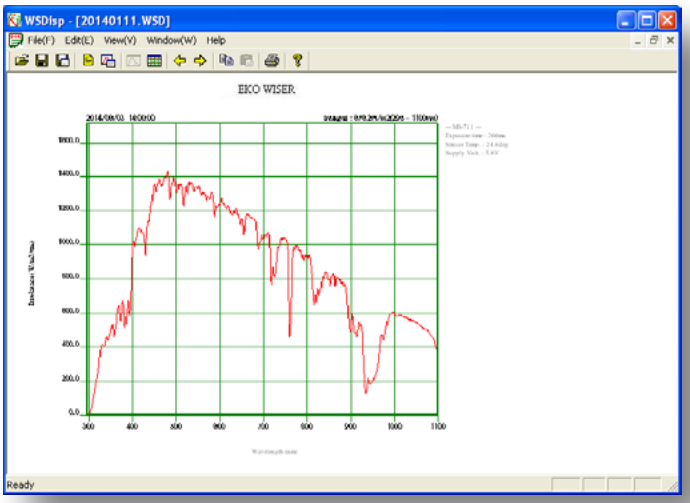
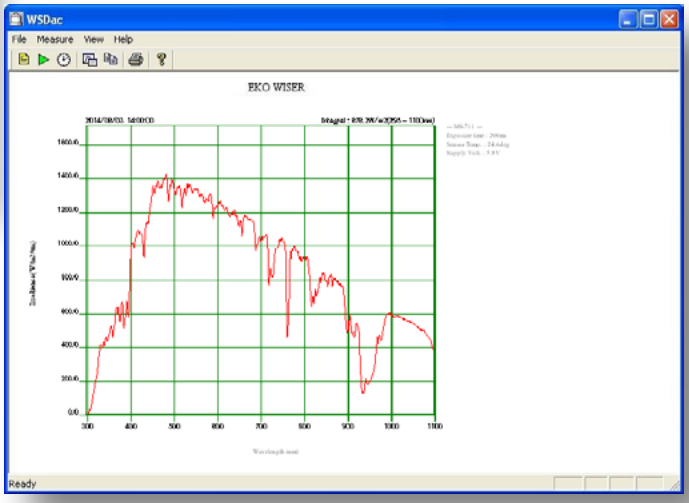
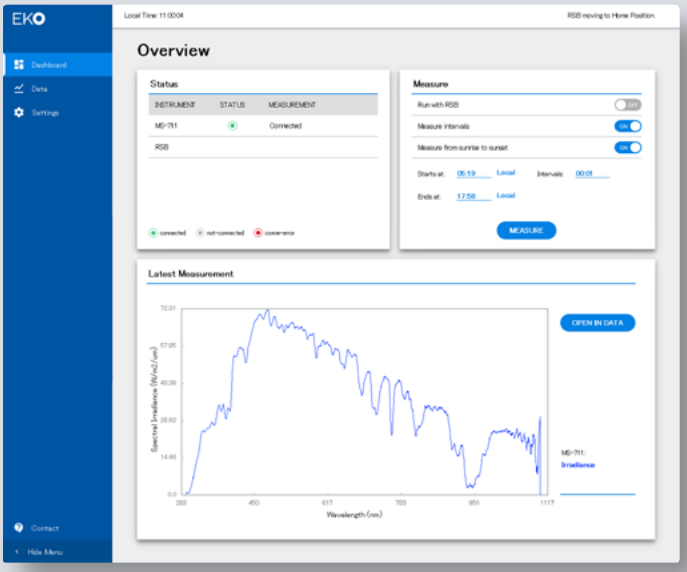
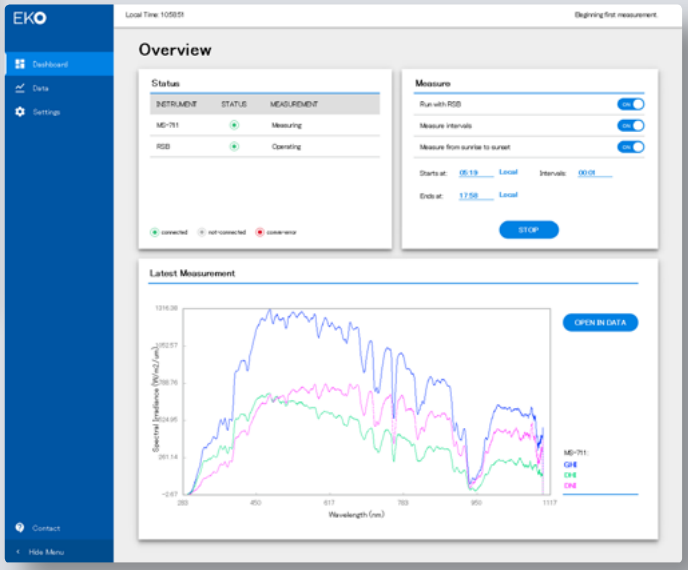


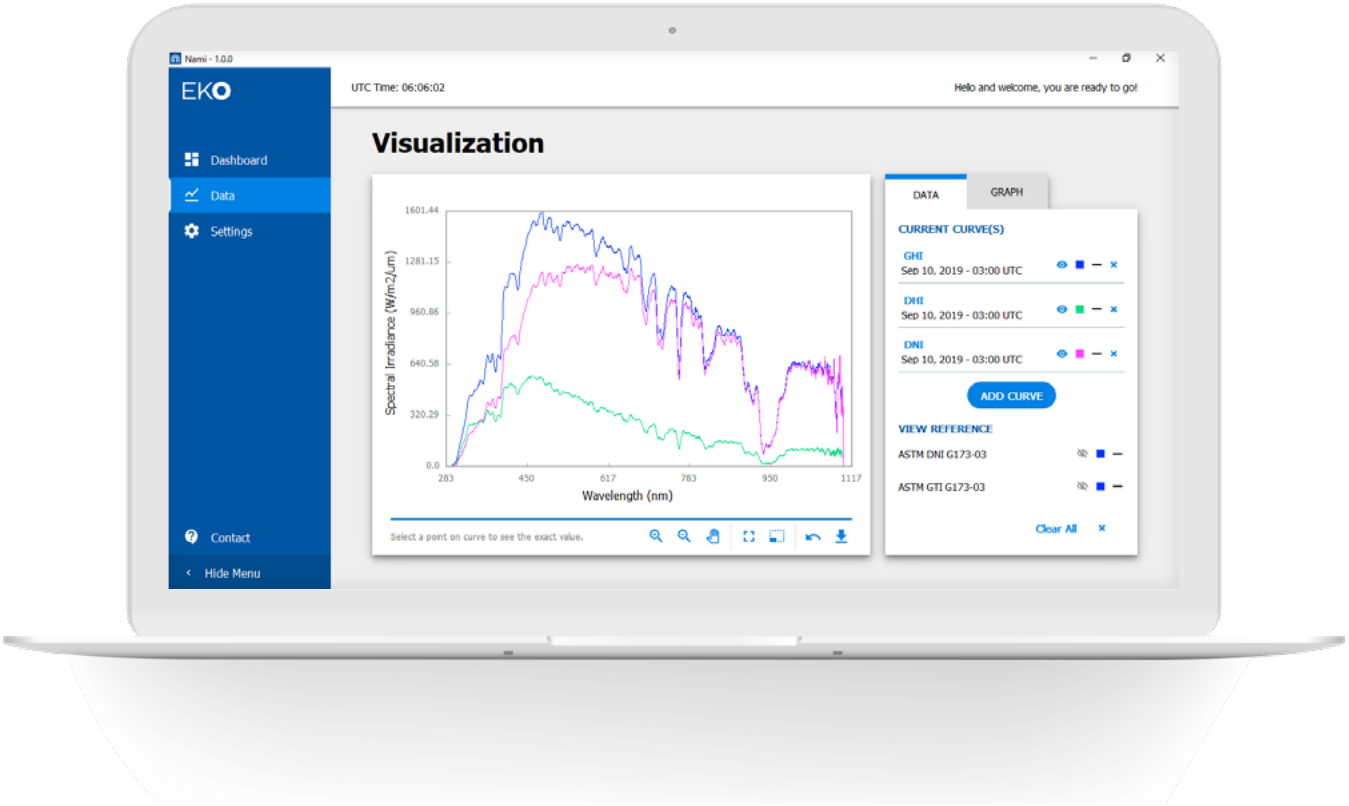


ABOVE. Simple screenshot of WSDisp and WSDac former software

BELOW. The new Nami dashoboard







ABOVE. Spectral DNI, DHI, and GHI

The status lights update continuously providing feedback in the event a connection is lost. While the EKO instruments communicate serially over RS-232 or RS-422, the biggest communication problems tend to arise from the myriad of USB to serial converters available on the market. Some are more reliable than others. If you have any problems, please consult your local EKO office.

Users can toggle the software to know whether an RSB is in the network or a single MS-711 is in operation. After measurements are initiated, the latest measured spectrum is always displayed on the Dashboard.

All measurement and meta data are saved locally. After measurements are made or during a measurement run, users can navigate to the Data tab to view their data in more detail. Data files from either the MS-711 alone or with the RSB-01 can be viewed in the Data tab. Below is a figure showing three components of spectral irradiance from the RSB-01.

Users can define the features and appearance of each spectra including line color and fill, as well as displaying the ASTM reference spectra in the same plot. New visualization features were incorporated into Nami allowing users to zoom, move, lasso, and step through each data point of all spectra in the Data screen. Users can plot a total spectrum or zoom down to fine spectral features. Once a satisfactory plot is made, the user can save the plot area in high quality presentation worthy .PNG files.

EKO took the opportunity to not just upgrade the software interfacing with their instruments, but also made standard improvements to the hardware of certain devices.
This improved synergy helps EKO users start making measurements more quickly with less hassle. For example, in the last screen of Nami, Settings, users can select whether to communicate and use the GPS receiver information in the RSB-01. A simple toggle of a switch and the RSB now knows exactly where on the globe it is located and how to accurately move the band for measurements. The band offset is also determined in the Settings screen. Nami allows a band offset from 0-10 degrees. If a user only has a MS-711, the coordinates of the location can be entered manually. This simple feature can be especially useful when an instrument travels to many sites over the course of its life. An image of the settings screen is below.

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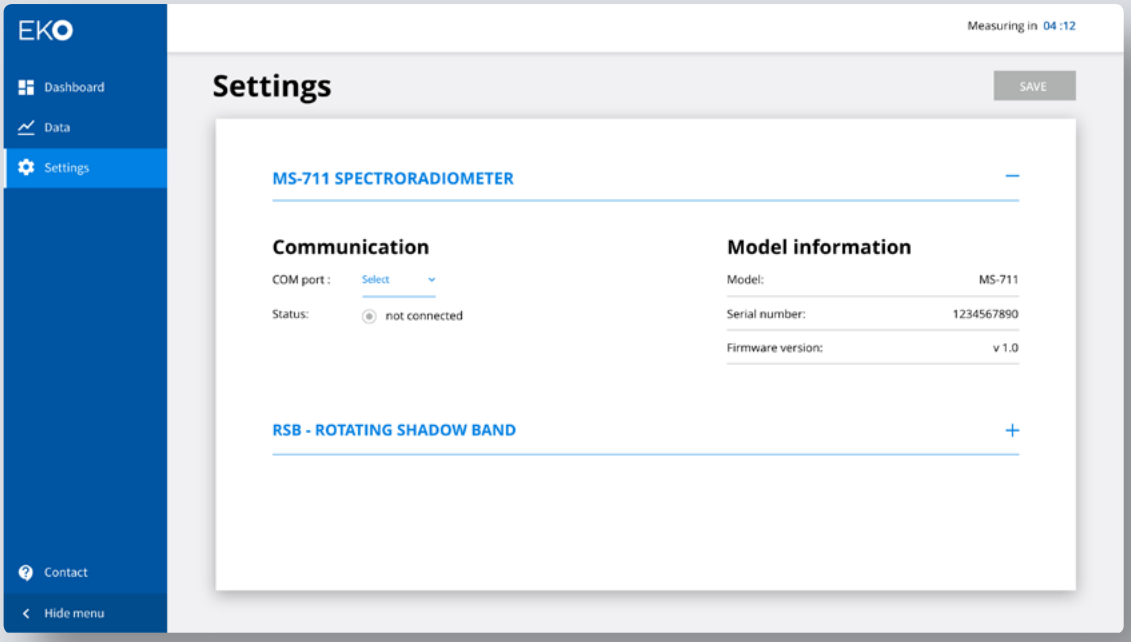

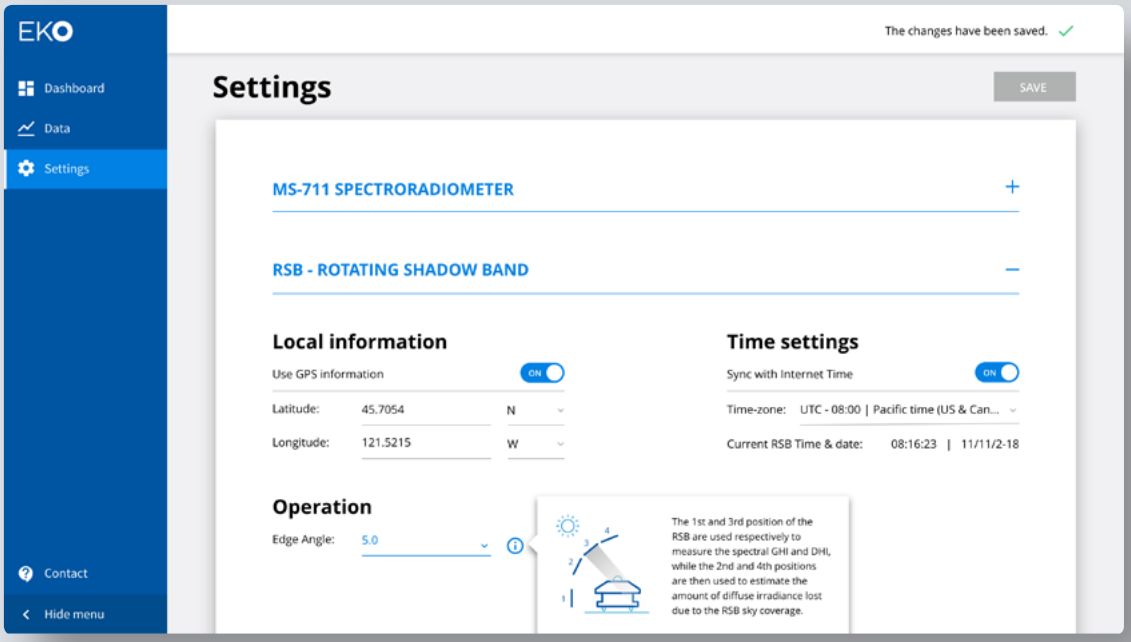

ABOVE. Settings screens

There are many other features included in the new Nami software. For a more in-depth explanation of each feature, or an explanation of how to use Nami, please consult the Nami manual on your respective EKO website.
Nami is available now for free download to upgrade your MS-711 measurement system.

Download Nami

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