

Romer Absolute Arm



This Quick-start guide applies to the setup of the Romer Absolute Arm including external and integrated scanners.

RDS Installation and Configuration:

Download and install the current version of RDS. RDS Installer version V4.2.0.exe (or later) can be found here:

<ftp://ftp.kinematics.com/pub/SA/Install/Driver%20Downloads/PCMM%20Arms/Hexagon/>

Run the RDS Installer and follow the prompts. Once installed, plug in the arm via the USB cable and verify Windows has properly recognized the device and installed the drivers properly.

RDS will always be active in the system tray (Figure 15-85) and will show the current connection status of your arm. It is your primary tool for calibration and arm configuration.

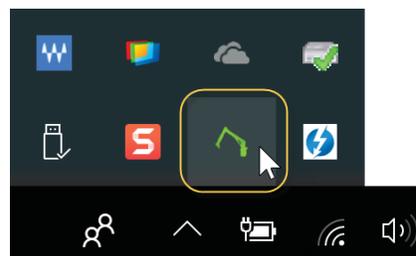
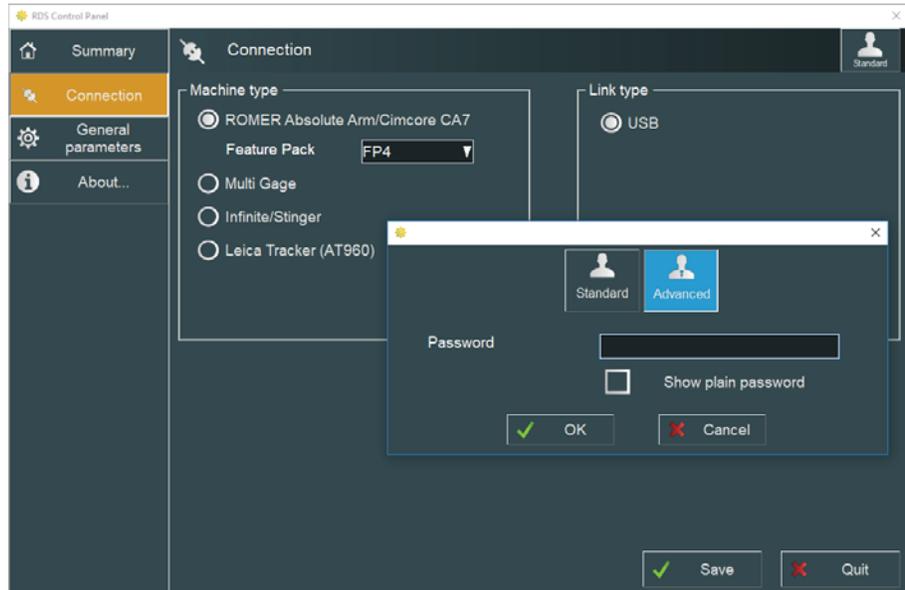


Figure 15-85. RDS in the System Tray.

In order to perform a calibration you will need to be an “Advanced” user which requires a password. “Advanced” is also the default pass-

word (see Figure 15-86):

Figure 15-86. The RDS status window.



Scanner Configuration

If your arm comes with a scanner you will need to configure RDS and the system use it. Steps include the following:

1. Ensure that the Ethernet cable is connected to your PC.
2. Set the Computers network card to an appropriate IP address.

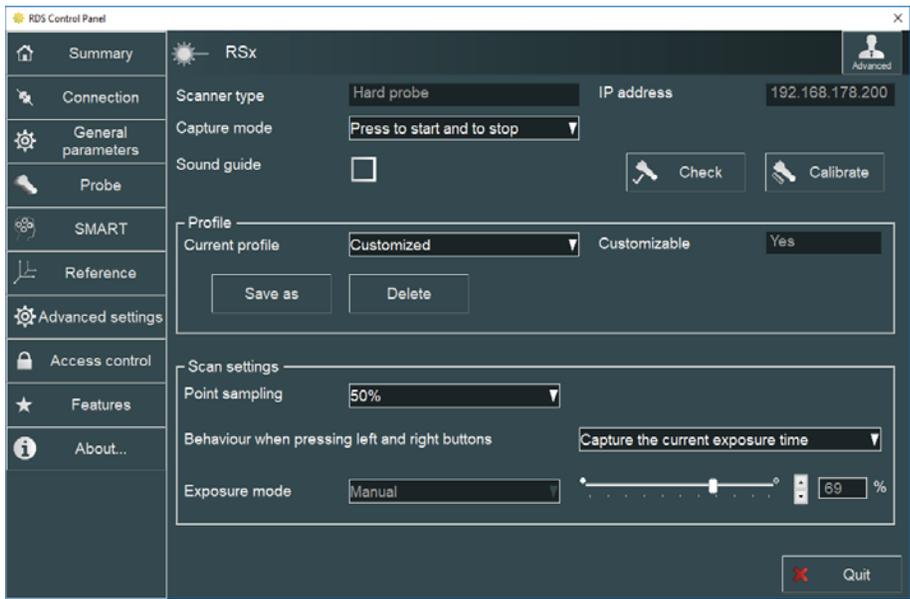
The default scanner IP address of *192.168.178.200*.

Make sure the computer IP address is 192.168.178.XXX with the last digits being between 0-255 but not 200. Example, 192.168.178.100 for the computer. For more information on changing IP addresses please consult the IP Address Basic section.

3. Calibrate the Scanner using the utilities provided as part of RDS.

Adjust the default settings as needed. The Scanning page in RDS becomes available when the scanner is engaged (Figure 15-87).

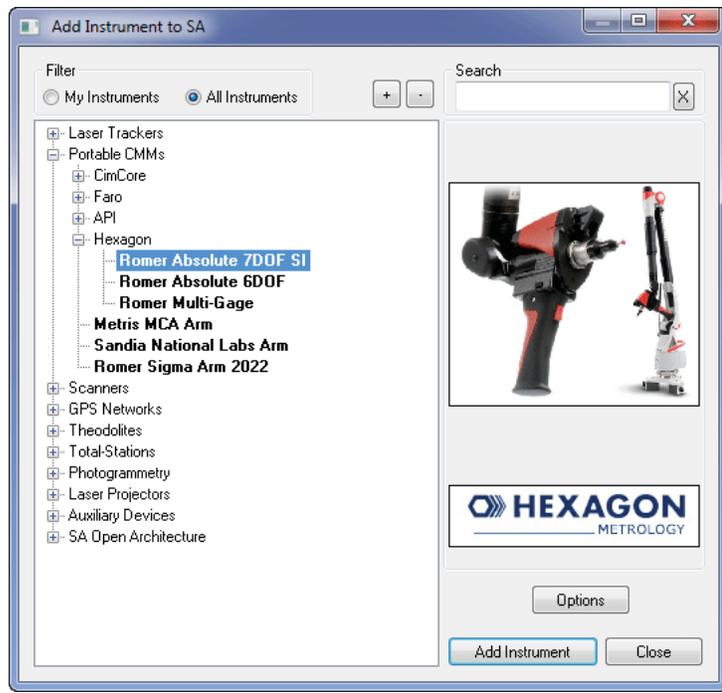
Figure 15-87. RDS Scanner Settings page



Running the Absolute Arm

1. Add an AbsoluteArm to SA via **Instrument>Add** or using the  icon (Figure 15-88). Select the respective Absolute Arm and click **Add Instrument**.

Figure 15-88. Adding the Absolute arm to SA.



2. Run the instrument interface via **Instrument>Run Interface Module and Connect** or using the  icon.

Most basic arm measurement operations are available through the instrument toolbar including point naming, single point and point scanning. It even includes right-click configuration (Figure 15-89).

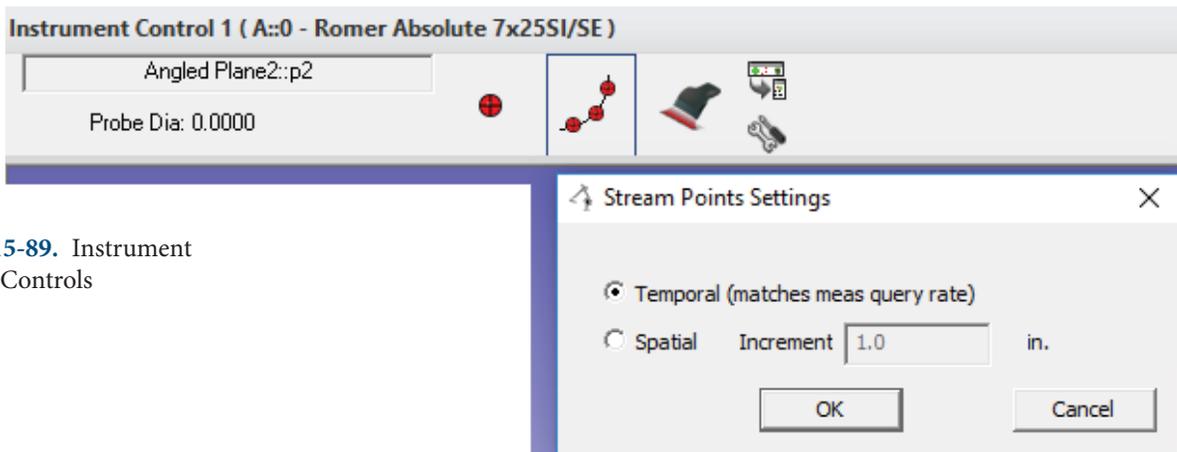


Figure 15-89. Instrument Toolbar Controls

Scanning with the Absolute Arm (SI)

Scanning is as simple as sliding the switch on the back of the grip. As soon as the scanner is engaged the RDS Scanning control interface will appear [Figure 15-90](#). The “Previewing” window will be displayed as network communication with the scanner is established.

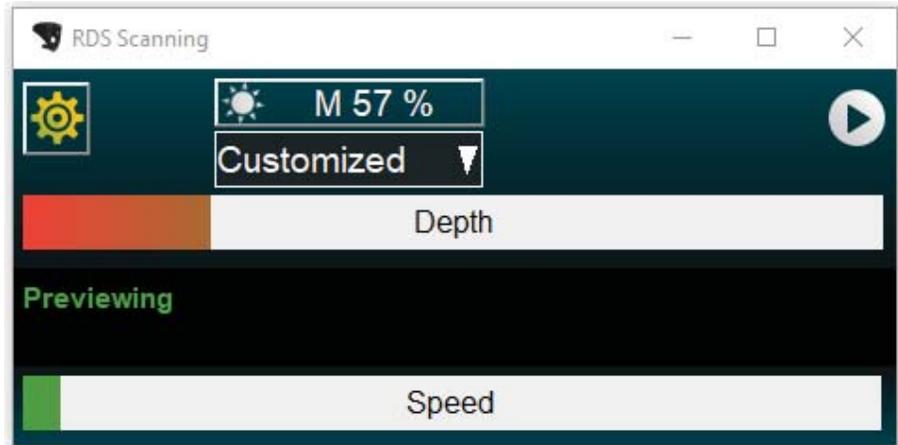


Figure 15-90. The RDS Scanning interface.

Additional Notes on Scanning:

- **Auto-Increment Names.** Cloud names can be automatically incremented by checking the option in the **Arm Settings> Fit/ Meas Options**.
- **Auto-exposure.** An auto-exposure routine can be initialized by pressing both buttons at the same time.
- **Proximity Triggers.** The scanner can be used to collect measurements in a particular location using **Instrument>Automatic Measurement>Auto Correspond with Proximity trigger>**. The choice of which mode to use is controlled in the **Arm Settings> Fit/Meas Option**.