



# Romer Absolute Arm: Preparing to Scan

Guides and information pertaining to the Romer Absolute Arm Beginner Usage Guide in the Benchtop 3D Scanners category

Written By: Eli Jared Fastow



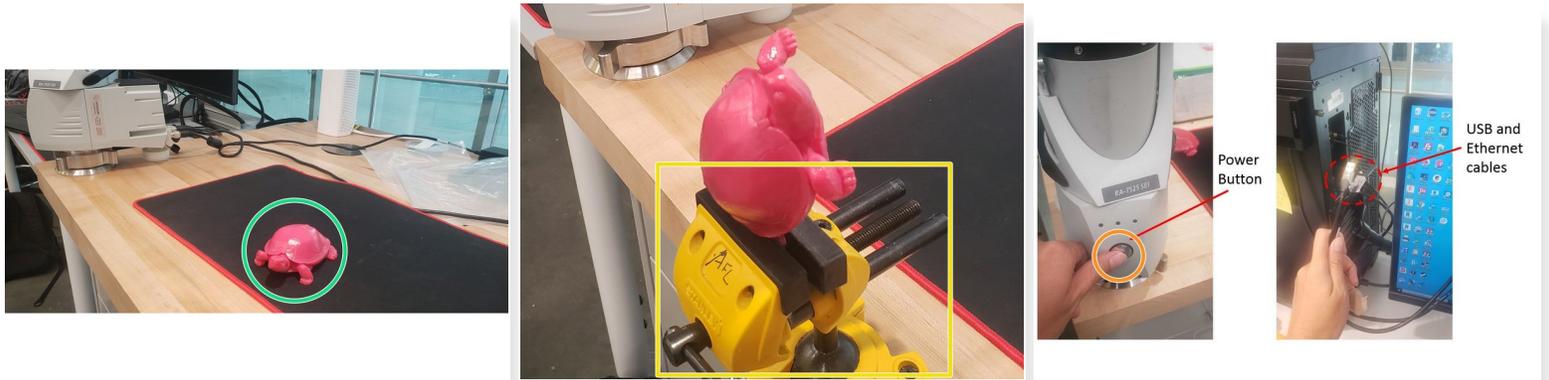
Source: <http://www.geniusinstruments.co.th/Industrial%20equipment-PortableMeasuringArms.2>

## Introduction

This guide explains how to set up the Romer Absolute Arm and target object to perform a 3D scan. See the guide [Romer Absolute Arm: Executing a Scan](#) for more information on performing a scan with the Romer arm.

Images by: Martinus Arie

## Step 1 — Scanning Preparation



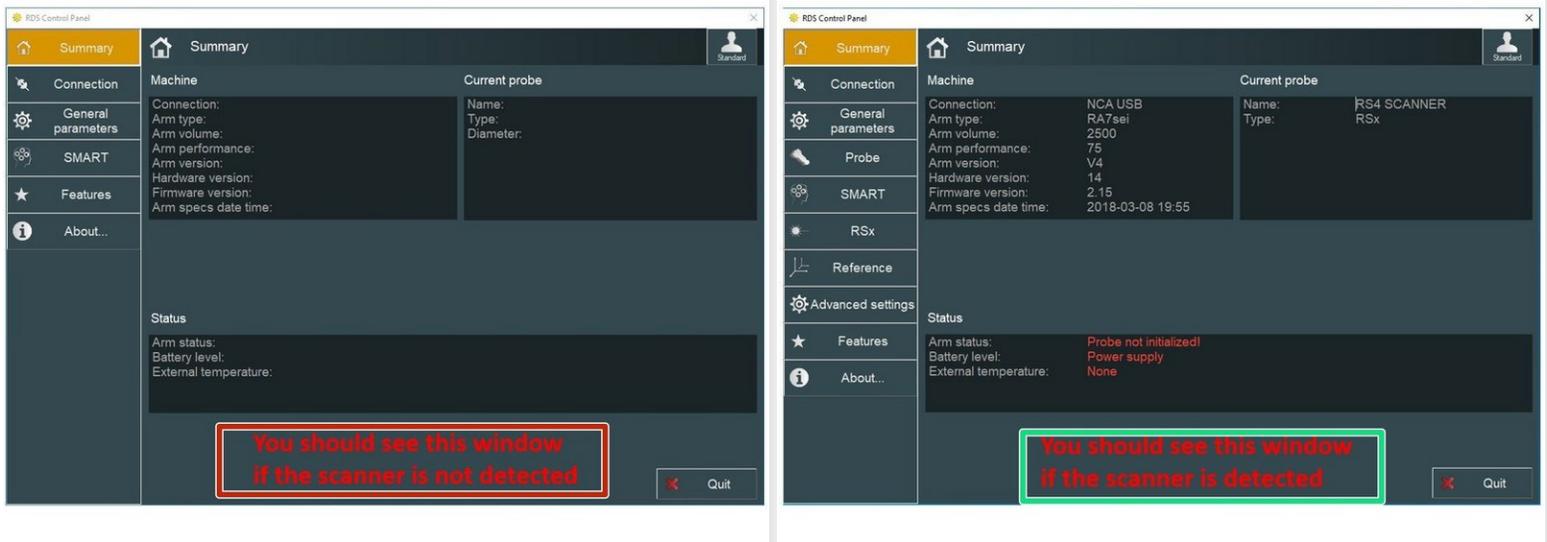
- Place the scan object near the scanner
  - A vice can also be used to hold the object
  - Turn on the scanner by holding the power button
    - ⓘ When it turns on, you will see a green light from the power button.
  - Connect both the USB and Ethernet cables from the scanner to the PC
- ⚠ When the Ethernet cable is plugged in, you will not have internet access. Generally, you will not need internet for the scanning**

## Step 2 — Optimum Scanning Position



- Place the scan object between 15" - 35" from the scanner
  - Placing the object too close or too far will make scanning more challenging
- The best placement is where you feel that you can point the scanner into most sections of the scanned object

## Step 3 — RDS Control Panel

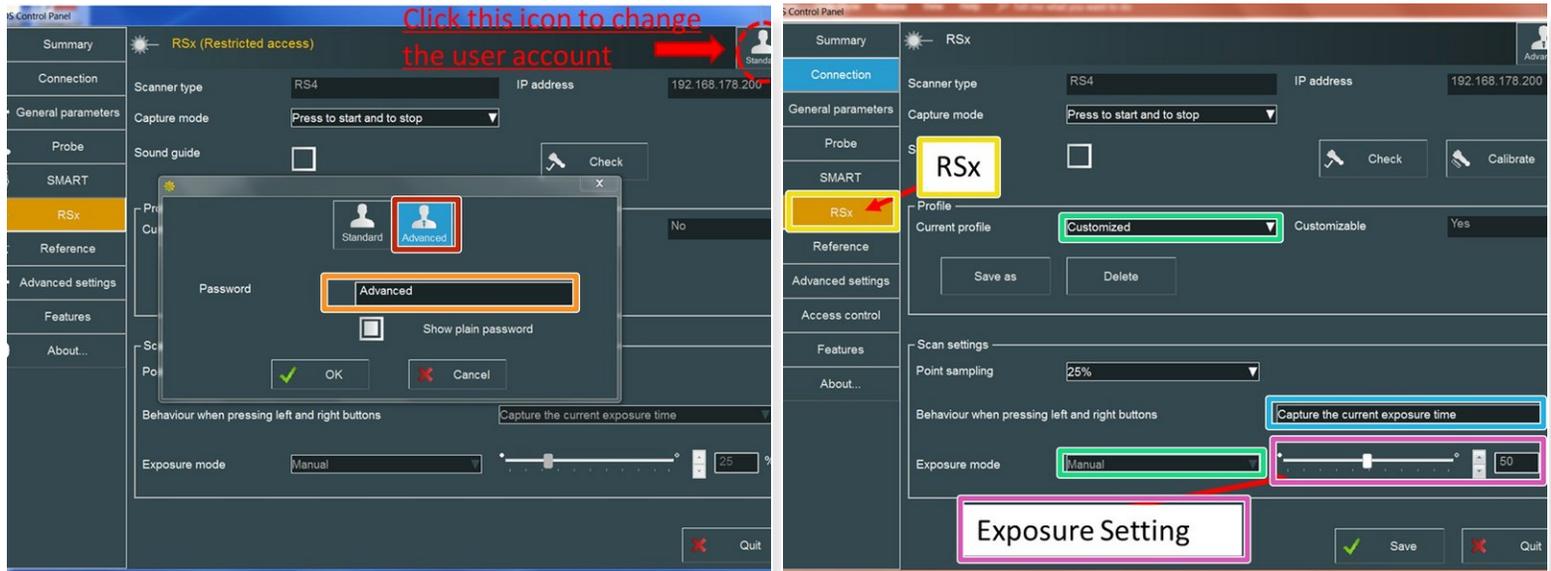


**i** The RDS Control Panel is needed to manage the Hexagon ARMs scanner. It is used to check if the PC detects the arm

- You can access the RDS Control Panel by going to: **All programs > RDS > RDS Control Panel**
- The RDS Control Panel failed to detect the scanner if the Summary screen has no information
- If the RDS Control Panel detects the scanner, the Summary tab will have information about the Romer Absolut Arm

**!** If the scanner is not detected after a few minutes, check that it is turned on and the cables are connected to the PC. If the scanner is still not detected, restart the PC

## Step 4 — Adjusting the Exposure Setting I



**i** Depending on the color of the scan object, the exposure setting needs to be adjusted

- To adjust the exposure setting , one needs to change the user account from Standard to Advanced by clicking the upper right icon
- The password is “Advanced”
- Click on the **RSx** tab
- Under "Current profile" select “Customized” and set the "Exposure mode" to "Manual"
- Under "Behavior when pressing left and right buttons" select “Capture the current exposure time”
- Change the exposure setting from 1% to 100% depend on the color of the object being scanned

## Step 5 — Adjusting the Exposure Setting II

Color	Exposure mode
White	15%
Pink	30%
Red	30%
Wood color	30%
Yellow	30%
White - gell	50%
Gray	50%
Green	70%
Black	85%
Blue	85%

- The attached table shows the recommended exposure setting for various colors
  - For colors not listed (Such as light green, etc), set the exposure setting to the closest color in the table and then manually adjust
  - For scanning a multi-colored object, scan one color first, change the exposure setting, then scan the other color
- i** An incorrect exposure setting reduces the amount of data captured by a scan, reducing its accuracy

Congratulation you have learn the basic skill needed to operate Romer Absolute Arms 3D Scanner