

Romer Absolute Arm: Preparing to Scan

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

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Introduction

This guide explains how to set up the Romer Absolute Arm and target object to perform a 3D scan. See the guide <u>Romer Absolute Arm: Executing a Scan</u> 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

(i) 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
- Mhen 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

At the Control Data					BDC Control Dunal Y						
â	Summary	Summary	Standard		Summary	Summary				Standard	
` \$	Connection	Machine	Current probe	8	Connection	Machine		Current probe			
\$\$	General parameters	Connection: Arm type: Arm volume:	Name: Type: Diameter:	礅	General parameters	Connection: Arm type: Arm volume:	NCA USB RA7sei 2500	Name: Type:	RS4 SCANNER RSx		
%)	SMART	Arm performance: Arm version:		۰	Probe	Arm performance: 75 Arm version: V4	75 V4				
*	Features	Hardware version: Firmware version: Arm specs date time:		*	SMART	Firmware version: Arm specs date time:	ware version: 14 ware version: 2.15 specs date time: 2018-03-08 19:55				
6	About			*-	RSx						
				브	Reference						
		Status		¢۵	dvanced settings	Status					
Arm s Batte		rm status: Jattery level			Features	Arm status: Battery level:	n status: Probe not initialized! tterv level: Power supply				
		External temperature:		0	About	External temperature:					
		You should see this window if the scanner is not detected				You should see this window if the scanner is detected X Quit					

- 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%
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- 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
- 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