Product Support Group
P.O. Box 368 Herzliya B. 46103 Israel
Tel: 972-9-960-8222
Fax: 972-9-960-8299
www.scitexvision.com

Technical Note

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<td>Subject</td>
<td>New IR Heaters Control Unit</td>
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<tr>
<td>Written by</td>
<td>Eran Hirschberg</td>
</tr>
<tr>
<td>Checked by</td>
<td>Eyal Manzoor</td>
</tr>
<tr>
<td>Edited by</td>
<td>Natasha Zaltsman</td>
</tr>
<tr>
<td>Date</td>
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Overview

This technical note introduces the new IR Heaters Control Unit and includes a step-by-step installation procedure.

The new temperature control unit improves the drying of the media, solves the edge wrinkles problem for problematic media, the elongation problems, and X misregistration.

Required tools

- Allen keys set
- Electric Driller
- Morse Drill 30mm
- Drill bits 3.5 + 8mm
- Jigsaw
- Philips Screwdriver medium + small

Catalog numbers

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<th>Description</th>
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<td>IR Temp Control Unit</td>
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Unit Description

The IR Heaters Control Unit includes:

- Three Solid State Relays for 90A
- One Transformer 230VAC to 24VAC
- One Fan with cooling ribs
- One thermo coupler
- One Temperature Controller
- One Heat Sensor

All items are installed inside a small carbine with a locked door.

Refer to TCU Wiring Diagram on the next page.
Operation

The user sets the desired temperature in the temperature controller. All three IR rows in the machine will be activated permanently.

When the temperature inside the drying hood approaches the set point in the temperature controller, all IR lamps turn Off, then On and Off for short periods of time, until the right temperature is reached inside the drying hood.
Installation

1. Shut down the machine and disconnect all power cables from the PDU: Main power cable and power supply from the UPS.

2. Remove the cover panels from the right cabinet.

3. Remove all hood covers between the right cabinet and the middle of the machine.
4. Mark a rectangle on the right radial panel as shown below.

5. Cut the marked rectangle off from the Panel.
6. Mount the panel back onto the machine.

7. Mount the Control Unit and mark the 4 holes see below.

8. Remove the TCU and drill the 4 holes with a 8mm drill.
9. Mount back the TCU and fasten with the 8mm screws and nuts supplied.

10. Insert the Heat Sensor through passage – see bellow.

11. Run the wire under the Fans to the middle of the Hood.
12. Drill a hole of 6mm diameter at approximately 5cm right of the middle of the hood and between IR row 3 and 2.

13. Insert the Heat sensor and align it facing left.


15. Remove the top panel on the PDU and drill 30mm holes on the right side of the panel.
16. Insert the two high voltage cables through the panel to the PDU.

17. Review the wiring diagram for the TCU (see page 3).

18. Disconnect the R, S, T (or – T1, T2, T3) wires from the Heating System contactor, and connect to the cable clamps, as shown in the picture below and the attached Wiring Diagram.

Apply Shrink sleeve on the clamps before closing the Screws (A), and shrink it using the Solder (B).
19. Connect the wires on the returning cable (from the TCU) to the terminals on the Contactor.

**Note:** Check continuity to assure that R, S, T wires are connected to the right terminals.

20. Run the Ground cable inside the cable channel in the left side of the PDU and connect it to the left terminal on the ground connections bar.

21. Close the PDU, and reconnect the power cables to the machine.

22. Connect the black power cable to **port J11** on the back of the PDU.

23. Turn the machine ON.
Adjusting Temperature

1. Turn the temperature controller ON.

2. Press the SET button to enter the setup mode.

3. Using the Arrow keys, enter a value for desired temp’ (50° is recommended).

4. Press the SET button again.

End of procedure.