

SOP 107/03	Installation Environment Specification	
Page 1 of 2	Product: TLC Scanner 3 winCATS	
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Purpose of this document: To ensure that all key aspects of the installation adhere to the manufacturer's recommendations, codes, safety parameters and design parameters.

Responsibility: Customer or CAMAG Approved Product Specialist or Service Engineer.

1 Introduction

This document describes the laboratory environment necessary for the TLC Scanner 3, which has to be available at installation to ensure reliable operation of the instrument.

2 Installation environment

The place for installation should meet the following requirements:

Bench space Width 620mm (add space for cables approx. 150mm)
 Depth 620mm (add space for ventilation approx. 60mm)
 Height 345mm (add space for ventilation approx. 200mm)
 Weight 38kg

 *Add adequate space for a PC next to the instrument.*

 *Check the PC for minimum specification according to section 2.2.*

Operating temperature The temperature should be within a range of 15 to 35 degrees centigrade and free from significant variations during measurement.

Humidity Humidity and temperature conditions must not cause condensation.

Atmospheric conditions Adequate ventilation free from acidic, alkaline or other gas that may corrode metal or painted surfaces must be secured.

SOP 107/03	Installation Environment Specification	
Page 2 of 2	Product: TLC Scanner 3 winCATS	

Other requirements:

- Do not place the instrument in a location where the temperature undergoes significant changes (e.g. under an air conditioning duct or by a window). Significant changes in temperature will affect the performance of the unit.
- Do not place the instrument in direct sunlight. Direct sunlight may create significant temperature changes, which will affect the performance of the system. Direct sunlight may discolor the instrument paint surfaces.
- Do not expose the instrument to any strong vibration or shock.
- Avoid placing the instrument near equipment that radiates heat. Do not place the instrument near gas burners, electric heaters or ovens.
- Do not place the instrument near equipment that generates intense magnetic fields such as electric welding equipment, high frequency furnaces, pole transformers, etc.
- Protect the instrument from excessive dust.
- Connect the instrument to power lines that are free from sudden changes or voltage fluctuations. Voltage fluctuations will increase detector noise.
- If you must use power motor driven equipment (such as a stirrer or vibrator) in the same line as your instrument, ensure that a noise reduction unit is in the same power line

2.1 Conditions for the installation

Confirm that the following requirements exist before installing the instrument:

Power supply and ground terminal

Line voltage: 100, 115, 230 or 240V AC (see rating plate on instrument). Fluctuation should be within $\pm 10\%$ of the rated voltage.

Frequency: 50 or 60 Hz

Power capacity: 150 VA

Ground terminal: A grounded outlet should be within 2 meters of the instrument.

Nitrogen flushing of monochromator (optional)

N2 flow 6L/min at 0.5bar (recommended pressure) of clean filtered N2 gas only!