

SOP 123/07	Installation Environment Specification		
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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 environment necessary for the VideoStore 2, which has to be available at installation to ensure reliable operation of the instrument.


2 Installation environment

The performance of all parts is impaired by dust, corrosive vapors, shocks and vibrations. The place for installation depends on your current illumination unit. In case of the CAMAG Reprostar 3 the place should meet the following requirements:

Depth	without column	515 mm
	with standard repro column	540 mm
Width	470 mm	
Height	with cabinet cover	370 mm
	with camera stand	850 mm
	with standard repro column	930 mm

 *Add adequate space for PC, printer and other peripheral equipment (if applicable) next to the illumination unit.*

Weight without repro column	without cabinet cover	16 kg
	with cabinet cover	21 kg
Operating temperature	The temperature should be within a range of 15 to 35 degrees centigrade and free from significant variations.	
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.	

 *If equipment other than the CAMAG Reprostar 3 is used in conjunction with VideoStore 2, this may need different environment specifications.*

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Other requirements:

- Do not place the equipment 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 instruments.
- Do not place the equipment in direct sunlight. Direct sunlight may create significant temperature changes which will affect the performance of the system. Direct sunlight may discolor the instruments paint surfaces.
- Do not expose the equipment 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: According to the indications on the rating plate of each instrument. Fluctuation should be within the voltage range specified.

Frequency: 50 or 60 Hz

Power capacity: Reprostar 3: 80 VA max
Camera: 20 VA max

 *Add adequate power for PC, printer and other peripheral equipment (if applicable)*

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

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2.2 PC minimum specifications

The following minimum configuration is valid for VideoStore 2, version 3.13 but also meets the requirements of VideoScan. Please note that the use of one of the operating systems listed below is mandatory.

Bus system	PCI-Bus meeting PCI V2.1 specifications with one empty slots for the frame grabber and, if necessary, one for the graphic adapter.
Processor	1.5 GHz or faster
Operating system	Microsoft Windows NT 4.0 (SP 6) or Microsoft Windows 2000 (SP4) or Microsoft Windows XP (SP1).
Hard disk	VideoStore 2, version 3.13 needs about 15 Mbytes of disk space and each .cpf image file uses at least 1360 Kbytes!
Mass storage	CD ROM writer, magneto-optical drive, IOMEGA Jaz drive or similar
Floppy drive	1.44 Mbytes (3½")
Memory (RAM)	256 Mbytes for Win NT4.0 and Win2000. 512 Mbytes for Win XP. Adding more RAM is recommended when working with large TREASURY image databases!
Graphic adapter⁽¹⁾	PCI with at least 16MBytes. Ask CAMAG for current recommendation.
Interfaces	2 x RS 232, 1 x Centronics parallel Two parallel interfaces are necessary if a video printer and a system printer are connected locally
Mouse	PS/2 or bus mouse
Monitor⁽²⁾	17", 800x600 at 48kHz/72Hz (VESA 800 standard). Recommended: 17", 1024x768 at 60kHz/85Hz (VESA 1024 standard)
System printer	Any laser or inkjet printer supported by Windows Recommended resolution: at least 600x600 dpi
Video printer	VideoStore 2 „Color“: Sony UP2500, Mitsubishi CP 700 DE or compatible


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⁽¹⁾Table 1 Memory requirements for different screen resolutions

Screen resolution	Colors to display	Memory	Note
800 x 600	256	512 Kbytes	
800 x 600	65K	1 Mbytes	
800 x 600	16,7 M	2 Mbytes	True color
1024 x 768	256	1 Mbytes	
1024 x 768	65K	2 Mbytes	Hi color
1024 x 768	16,7 M	4 Mbytes	True color 24bit
1024 x 768	16,7 M	8 Mbytes	True color 32bit
1280 x 1024	16,7 M	8 Mbytes	True color 32bit

⁽²⁾ Table 2 Recommended screen resolutions by display size

Display size	640 by 480	800 by 600	1024 by 768	1280 by 1024
14 Inches	Best	Good	Poor	Bad
15 Inches	Good	Good	Best	Bad
17 Inches	Poor	Good	Best	Bad
19 Inches	Poor	Poor	Good	Best
21 Inches	Bad	Poor	Good	Best

 *Responsibility for proper operation of the VideoStore 2 and VideoScan software can only be accepted for complete systems supplied by CAMAG.*