



SPOT™ Imaging Solutions

A division of Diagnostic Instruments, Inc.



PR3400 Series 1.4Mp USB Cameras Hardware Guide

Manufactured by:

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WARNING/CAUTION

TO PREVENT FIRE OR SHOCK HAZARD,
DO NOT EXPOSE THIS PRODUCT TO
RAIN OR EXCESSIVE MOISTURE.

Regulatory and Safety Compliance Notes:
This equipment complies with the limits for a
Class A digital device, pursuant to part 15 of
the FCC Rules. These limits are designed
to provide reasonable protection against
harmful interference when the equipment is
operated in a commercial environment.

The equipment generates, uses, and can
radiate radio frequency energy and, if not
installed and used in accordance with the
instruction manual, may cause harmful
interference to radio communications.

Operation of this equipment in a residential
area is likely to cause harmful interference in
which case the user will be required to
correct the interference at his/her own
expense.

This product complies with the CE EN 6100-
6-3:2001, EN55624:1998 and EN60950
standards.



This symbol is
intended to alert the
user to important
operating and
maintenance
(servicing) instructions
in the literature
accompanying this
product.

This camera is designed for research and
industrial applications, including the imaging
of macroscopic or microscopic specimens.
It is the responsibility of the user to qualify
that this product meets the requirements for
its intended application. In no event and
under no circumstances shall the
manufacturer be liable to an individual or
entity for any indirect, special, consequential
or incidental losses or damages, including
(without limitation) lost profits.

SAFETY INSTRUCTIONS

- Read these instructions
- Keep these instructions
- Heed all warnings
- Follow all instructions

Do not attempt to use this product in any manner not specified by the manufacturer as manufacturer will not be held responsible.

This product is designed for indoor use only. Do not expose to rain or excessive moisture.

Install in accordance with the manufacturer's instructions.

Do not install near any heat sources such as radiators, heat registers, stoves, or any other apparatus that produces heat.

Do not defeat the safety purpose of the grounding-type plug. The camera's power supply uses a grounding type plug which has two blades and a third grounding prong. The third prong is provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.

If this camera is going to be installed near running water, this device must be plugged into a GFCI (ground fault circuit interrupter) receptacle.

Only use the attachments/accessories specified by the manufacturer.

Unplug this apparatus when it not in use for long periods of time.

Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way. This includes: damage to power supply cord or plug, damage caused by exposure to rain or excessive moisture, damage caused by spilled liquid or falling objects, damage caused by the apparatus being dropped, or damage resulting from the apparatus functioning improperly in any way.

Do not allow an impact shock. Take steps to prevent objects from falling into the product.

Do not connect too many devices to the same AC power outlet as this could result in fire or electric shock.

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire.

Periodically examine the cords of the camera system. If appearance indicates damage or deterioration, unplug cord, discontinue use of the system, and have the cord replaced with a factory issued replacement part from an authorized service.

Be sure to grasp the plug when unplugging the power cord. Do not pull on the power cord to unplug the product.

Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the power supply.

Do not expose the vented openings of the camera to dripping or splashing. Do not place objects filled with liquids such as vases, cups, etc. on or over the camera system (such as on shelves above the unit).

DISCONNECTING THE DEVICE FROM MAIN POWER SOURCE

The main plug is the disconnecting device. The plug must remain readily accessible to be disconnected during service or maintenance.

Be sure there is proper and adequate ventilation where the camera and power supply are installed to minimize the risk of fire when using flammable liquids.

Do not cover camera or power supply with cloth or other materials like plastic while plugged in. Do not install in excessively dusty places. Do not block any ventilation openings.

If you smell smoke or other odors coming from the camera or power supply or hear strange sounds, unplug the power cord and contact customer service.

There are no consumable materials associated with the camera system.

MINIMUM SYSTEM REQUIREMENTS

Computer with a Core 2 Duo processor.



Note: For up-to-date suggestions regarding optimal computer system configuration, please check our website at www.spotimaging.com.

WHAT IS IN THE BOX

- Camera head with camera mount dust cap
- Power supply (with cable to camera)
- Power cord for the power supply
- USB 2.0 Type A to Type B cable (camera to computer)
- One CD-ROM that contains:
 - Installer for SPOT Basic Software (for camera operation)
 - Installer for SPOT TWAIN Only Driver (for control of camera in 3rd party software)
 - The PDF version of the Software User Guide
 - The PDF version of the Hardware Guide
 - The Adobe Acrobat Reader software that is required to read and/or print the user manuals.
 - Registration card to register your camera and software. You may also register at www.spotimaging.com/registration.
 - 2 year limited hardware warranty statement

INSTALLING THE SOFTWARE

Follow the instruction guidelines included with the SPOT Software CD for installing the SPOT Software.



Note: Although the SPOT Software can be installed either before or after installing the camera, we recommend installing the software first.

INSTALLING THE HARDWARE

Attaching the camera to the microscope:

1. Follow the instructions for assembling your microscope to camera optical adapter.
2. Attach the microscope to camera optical adapter to the camera.
3. Attach the camera/adapter to the appropriate photo port on your microscope.

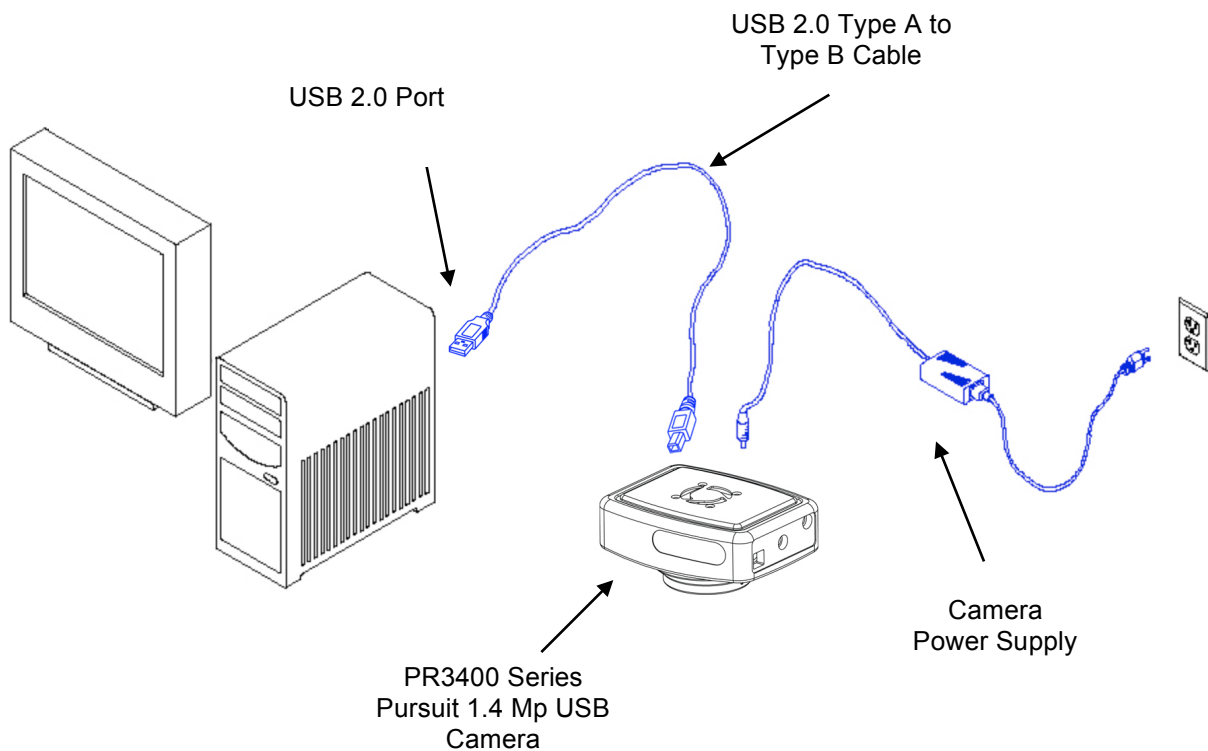


Note: SPOT cameras can also be used with a suitable macro lens. For additional suggestions on lens formats, please see the Camera Specifications or the camera's data sheet (www.spotimaging.com/literature).

Connecting the camera to the computer:

With the computer turned on...

1. Connect the Type B (pentagon shaped) end of the USB cable to the side of the camera and the Type A (rectangular shaped) end to a USB 2.0 port on your computer.
2. Connect the power cable to the back of the camera and plug in the power supply to a wall outlet.
3. The camera power is controlled by the computer and is turned on when the computer is turned on and turned off when the computer is turned off.
4. Follow the prompts on your computer to install the necessary drivers using the “Found New Hardware Wizard” dialog.



CAMERA SPECIFICATIONS

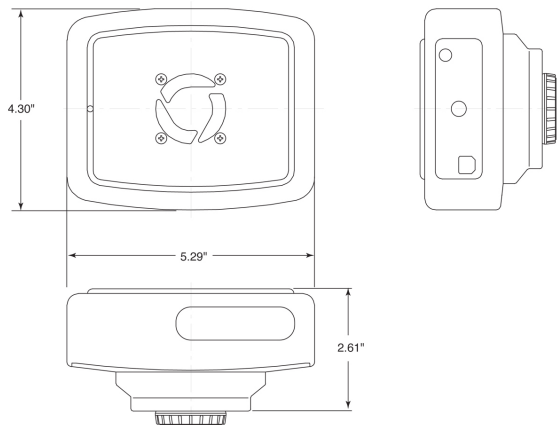
Please refer to the appropriate camera data sheet for additional camera specifications at www.spotimaging.com/literature

Pursuit 1.4Mp USB Camera – PR3400 Series

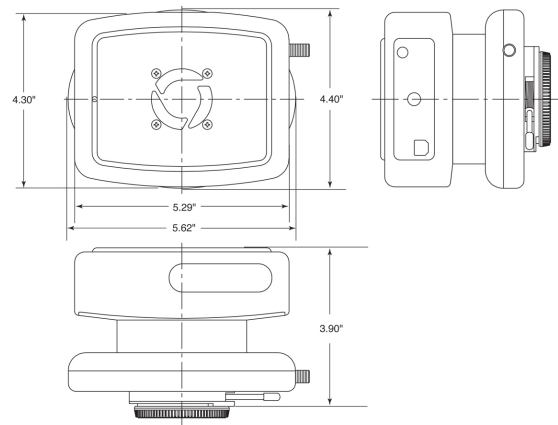
Models: PR3400, PR3420, PR3440

Lens Mount	2/3" format-C-mount (PR3400, PR3420) or Nikon F-Mount (PR3440)
Sensor Format	2/3"
Sensor Size	8.79 mm x 6.8 mm (10.97 mm diagonal)
Weight	1.09 Kg (2.4 lbs.) - [PR3400, PR3410, PR3420], 1.2 Kg (2.7 lbs.) [PR3440]
Size	10.9 cm x 13.5 cm x 6.6 cm (4.3" x 5.3" x 2.6") –(PR3400, PR3410, PR3420) 10.9 cm x 13.5 cm x 9.9 cm (4.3" x 5.3" x 3.9") –(PR3440)
Power Requirements	100 – 240 VAC, 50/60 Hz @ 1 A
Power Consumption	25 watts max
Operating Environment	+5°C to +40°C , 0% - 80% relative humidity, non-condensing
Storage Temperature	-10°C to +60°C
Certifications	CE EN60950, EN6100-6-3 :2001, EN55624 :1998, FCC Class A, RoHS

PR3400, PR3410, PR3420



PR3440



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PR3400 Pursuit USB Guide

PN2737 Rev 1



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