

# *COLORPRO*

*Mini Xenon Slide Projector*

*Instruction Manual*

**NAVITAR®**  
The World Leader in Image Quality

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## *Breakthrough in Technology*

Thank you for your purchase of a Navitar ColorPro Mini Xenon slide projector.

The Navitar ColorPro is a compact and easy-to-use mini-Xenon slide projector specifically designed for adding impact to presentations in normal size rooms where a standard Kodak projector is typically used. It offers all the advantages of a Xenon slide projector, but in a smaller, portable size that costs less.

A breakthrough in technology, the ColorPro provides true and accurate color reproduction of your slides. Unlike conventional halogen lamp slide projectors that colorize your slide images with a yellowish cast, the ColorPro projector presents your slides exactly as photographed. Colors are vibrant. Whites are **bright** white, not a dull yellowish-green. Blacks are **really** black, rather than gray.

The ColorPro is brighter than standard slide projectors allowing you to present in rooms that cannot be completely darkened or in situations where the room lights must be left on. Your presentations will be more effective because you will never lose your audience in the depths of a darkened room.

The ColorPro is compatible with all standard slide projection lenses. For optimum clarity, we recommend that you choose from the wide variety of lenses available from Navitar.

# ***Components & Servicing***

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## ***Supplied Components***

ColorPro projectors come equipped with the following components:

- Projector
- Power Cord
- Xenon Bulb
- Remote 2 Power Connector
- Instruction Manual

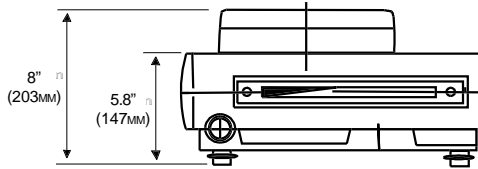
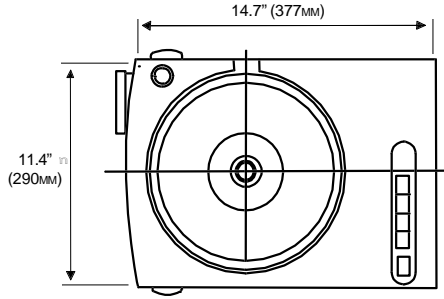
## ***Servicing & Repair***

Your new Navitar ColorPro Xenon slide projector is constructed of the finest electronic components available and designed for maximum reliability. For servicing, contact the dealer you purchased your projector from or call Navitar at 1-800-828-6778 or 716-359-4000.

# Specifications

## Projector Dimensions

MODEL	CP-300AF	CP-300SD
<b>Dimensions</b>	11.4"W x 14.7"D x 8"H 290W x 375D x 203H (mm)	11.4"W x 17.3"D x 8"H 290W x 438D x 203H (mm)
<b>Weight</b>	18.7 lbs. (8.5 Kg.)	24.2 lbs. (11 Kg.)



## Light Source

<b>Power Supply</b>	AC 120V, 50Hz.
<b>Power Consumption</b>	500VA (model CP-300AF), 550VA (model CP-300SD)
<b>Projection Lamp</b>	High Intensity Xenon Lamp, 250 watt
<b>Xenon Lamp Circuit</b>	Horizontal Lighting System
<b>Central Illumination</b>	1,800 Lux.

## Projection

<b>Mount Size</b>	2 x 2" slides
<b>Aperture Size</b>	23 x 35mm or 35 x 35mm super slides
<b>Projection Lens</b>	Compatible with standard slide projection lenses
<b>Slide Transportation</b>	0.85 seconds (Forward and Reverse)
<b>Tilt Adjustment</b>	Front adjustable legs
<b>Keystone Adjustment</b>	Adjustable to $\pm 17\%$ (model CP-300SD only)
<b>Horizontal Adjustment</b>	Adjustable to $\pm 6\%$
<b>Dissolve Function</b>	AVL/Datavone compatible (model CP-300SD only)
<b>Dissolve Speed</b>	0.25 seconds (model CP-300SD only)
<b>Remote Control</b>	Optional
<b>Random Access</b>	Optional
<b>Room Temperature</b>	41-95° F

## ***Projector Features***

### ***Source-1***

Lamp power supply.

### ***Source-2***

Connector for dissolve power supply from AC OUT of controller.

### ***Source Select***

Change-over switch.

Select 1 = Ordinary projection.

Select 2 = Multi-image projector.

### ***Controller In-1***

Pin connector for dissolve controller made by AVL or Kodak.

### ***Power***

Power on/off switch.

### ***Zero Connector***

Used with a multi-image system. When the slide tray is in the zero-position, the contact is open. It is closed in any other position.

### ***Remote-1 Connector***

Connects the remote control for remote forward/reverse and focus adjustment.

### ***Remote-2 Connector***

Connects the remote control for lamp on/off or dissolve shutter open/close.

### ***Controller In-2***

Connector exclusively for Dataton's PAX.

### ***Lamp***

Switch for lamp on/off.

### ***Set-up***

To be used with multi-image system.

On = Dissolve shutter is opened.

### ***Zero-Point Indicator***

When lit, it indicates that the slide tray is in the zero-position.

## ***Focus Switch***

Press the switch for focus in/out adjustment.

## ***Forward/Reverse Switch***

Moves the slide tray forward (FWD) and in reverse (RVS) for slide advancement.

## ***Slide Cover***

To be removed when condenser lenses are changed.

## ***Front Adjustable Legs***

For adjusting the position of the projected image on screen.

## ***Vertical Shift-1***

Knob for adjusting the vertical position of the projected image. It can be moved  $\pm 17\%$  of picture size without distortion. (CP-300SD only).

## ***Horizontal Shift-2***

Knob for adjusting the horizontal position of the projected image. It can be moved  $\pm 6\%$  of picture size without distortion. (CP-300SD only).

## ***Projection lenses***

A wide variety of Navitar slide projection lenses are available for use with your ColorPro projector. A large diameter slide projection lens from Navitar will allow you to output more light from the projector's lamp house. Conversely, using a low cost, plastic slide lens with a smaller optical diameter may prevent you from achieving maximum on-screen brightness.

## ***Slide Tray***

80 carousel slide trays.

## ***Random Access Remote Connector (optional)***

Connects the cable for the random access remote control.

## ***Slide Gate***

Loads slides into the projector from the tray.

## ***Tray Locking Lever***

Lever for releasing the tray from the projector.

## ***Timer Switch***

Interval timer switch. The slide tray will automatically wait the selected time before advancing to the next slide.

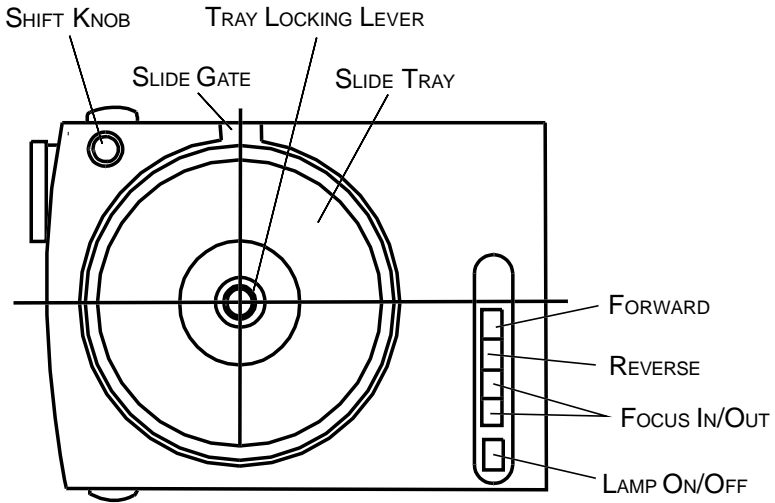
## ***Fade Select Switch***

Fade timer switch for fade in/out projection.

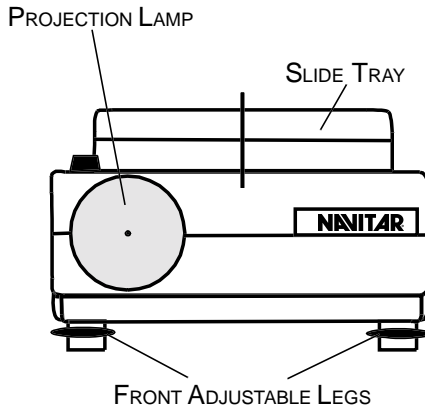
## ***Auto Focus Switch***

The on/off switch for automatic focusing.

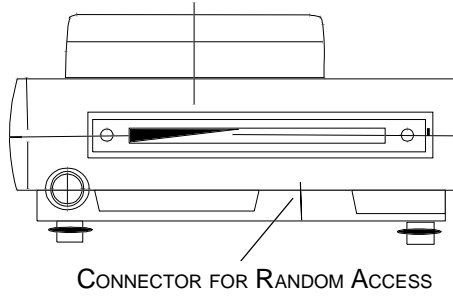
## 300AF Top View



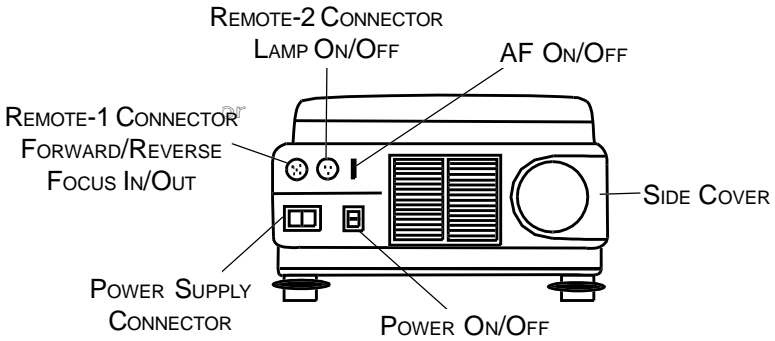
## 300AF Front View



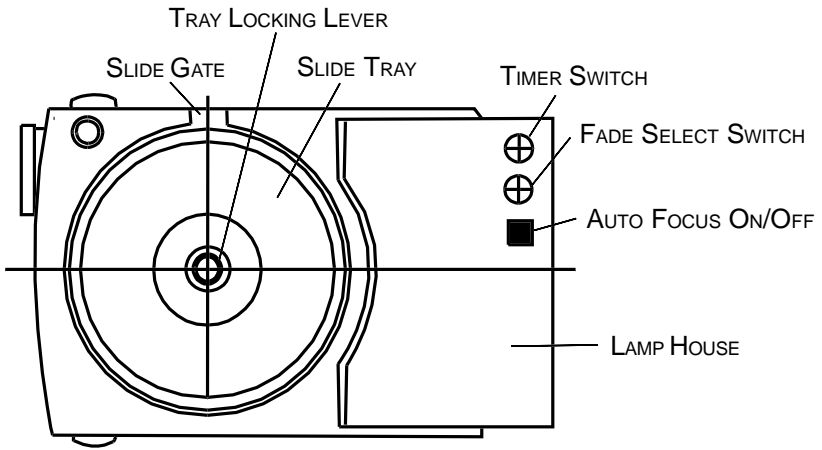
## 300AF Side View



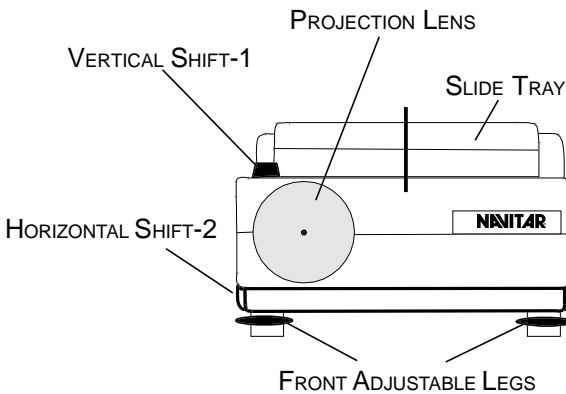
## 300AF Rear View



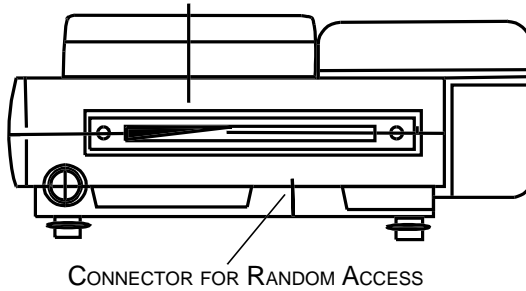
## 300SD Top View



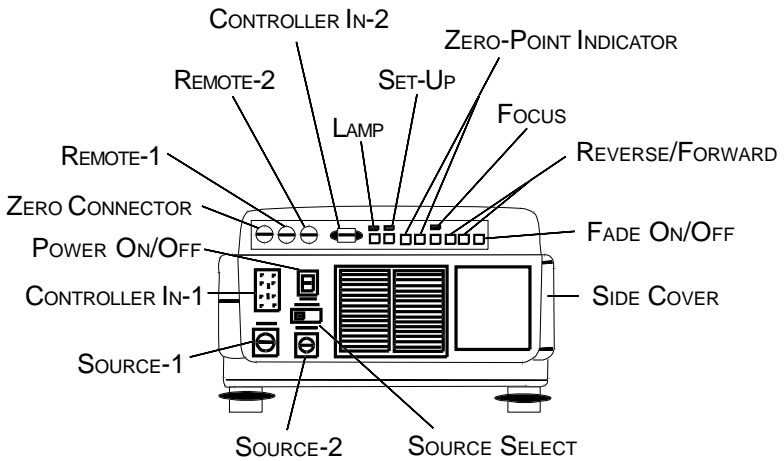
## 300SD Front View



## 300SD Side View



## 300SD Rear View



## Warning

***IMPORTANT:*** Before opening the box containing the Xenon bulb, note the following precautions:

The Xenon bulb contains gas under pressure. ***Care should be taken in handling the bulb to avoid personal injury.***

***Wear protective clothing such as gloves, a long-sleeved shirt and face and eye covering*** to protect against flying glass in the event of bulb breakage.

***Handle the bulb only by the ends.*** Natural skin oils from hands may damage the quartz envelope.

***Always allow the bulb to cool before handling.***

When necessary, clean the bulb with ordinary rubbing alcohol (only when bulb is cool).

Place the bulb on soft, secure surfaces away from table edges.

***Never operate the projector or bulb with the lamp cover off.*** Do not permit light from the bulb to fall on skin or clothing. The light from the Xenon bulb is rich in ultraviolet rays similar to direct sun rays and can burn skin and bleach clothing. Do not look at the bulb directly while it is on. The light emerging from the projector lens is safe as long as ***common sense is exercised.***

If you have any questions regarding the installation of the Xenon lamp, please call Navitar at 1-800-828-6778 or 716-359-4000.

## ***Removing the Lamp***

***Make sure the projector is unplugged and the bulb is thoroughly cooled before proceeding.***

***Do not open the side cover while the lamp is lit.***

A Phillips screwdriver is required. Remove the side panel (one screw) and the bulb cover (two screws). Then remove the rear panel (two screws) and unscrew the positive lead screw on the side of the lamp. Unscrew the black end cap and remove the bulb by holding the metal tip.

## ***Installing a New Lamp***

Hold the bulb by the metal end and place it into the reflector. Make sure that the pointed section of the bulb is facing downward at 6 o'clock.

Now, replace the black end cap and reconnect the positive lead wire to the side of the lamp housing using the screw you removed earlier. Reattach the bulb cover to the lamp housing and attach the side panel. Then, reattach the rear panel.

If the bulb needs to be aligned, remove the back cover and adjust the three screws on the rear panel.

## *Setting Up the Slide Tray*

### *How to Place Slides in the Tray*

1. Place your slides in front of you in the same direction as the pictures are to be projected on the screen.
2. Place them in the order to be projected.
3. Turn each slide up-side-down.
4. Using a felt pen, write a slide number on the right upper corner of each slide.
5. Put each slide in the slide compartment in such a way that the number is seen at the right upper corner of each slide.

### *Rear Screen Projection*

Turn your slide around (flip it over 180°) to orient the slide for proper viewing. The slide number is now at the left upper corner of the other side.

### *Slide Mount*

\*A single-glass slide mount will keep moisture to a minimum.

# ***Installing & Removing the Slide Tray***

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## ***Installing the Slide Tray***

Match the zero-position of the slide tray with the projector's slide gate to easily install the slide tray. When the tray is properly installed, it is "locked" to the projector.

If the slide tray cannot be installed firmly on the projector, check the bottom of the tray. The slide holding plate might be fastened with a latch. Unfasten the latch and try to install the slide tray again.

## ***Removing the Slide Tray***

To remove the slide tray, follow the above procedure, matching the slide tray zero-position with the slide gate. If you push the forward or reverse button repeatedly, the slide tray will rotate rapidly, automatically stopping at the zero-position. In this position, the tray should slide off easily.

If the slide tray jams or cannot be removed with ease, do not force it. The slide tray can be released by pushing the tray lock release lever. This lever can also be used to remove the slide tray in case of an emergency.

# ***Standard Set-up & Operation***

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## ***Turning the Power On***

Place a loaded slide tray on the projector. Turn the power switch and the lamp switch to ON. The LED will light.

## ***Selecting a Lens***

Select the most suitable Navitar slide projection lens according to the width of the screen and projection distance.

## ***Mounting a Lens***

To mount a projection lens on the projector, just insert the lens into the lens port of the projector.

If you selected a zoom lens with a focal length of 228mm or more, or a 150-230mm or 200-300mm zoom lens support, insert the support bracket into a pin at the bottom of the projector and fasten with a screw.

## ***Determining Projected Image Position***

For adjusting the projected image size, move the position of the projector forward or backward or use a zoom lens.

To change the height and slant of the image, position the adjustable screw legs.

For fine adjustment, use the shift-1 knob for vertical adjustment and the shift-2 knob for horizontal adjustment. (Model CP-300SD).

## ***Adjusting Focus***

Roughly adjust the focus of the projected image by adjusting the lens manually. Adjust a Navitar lens by moving it horizontally in or out. Adjust focus further by means of the focus switch.

## ***Starting & Finishing Projection***

To start projection, push the forward or reverse button. To end projection, turn the lamp switch to OFF. Allow the lamp to cool for 2-3 minutes before turning the power switch OFF.

## ***Fast Forward & Reverse***

For fast forward or fast reverse, keep pushing the forward switch or the reverse switch on the remote controller. The slide tray will automatically stop at the zero-position of the slide gate.

## ***Skipping an Empty Slide Compartment***

This function memorizes any empty slide compartment(s) in the tray and skips them when advancing to the next slide. This function works repeatedly unless it is released.

### ***Inputting Memory***

Select the empty slide compartment you want to skip, then simultaneously press the forward and reverse buttons to memorize the tray position as empty. Each position memorized as empty will be skipped as the tray advances.

### ***Releasing Memory***

Memories are automatically released when the power is turned OFF. The memory can also be released when the tray is in the zero-position and you push the forward and reverse switches simultaneously.

## ***Random Access & Remote Control***

Random Access allows you to show slides in any order you select. Connect the random access controller (optional) to the connector on the side of your projector. Input the numbers of the slides (in the order you want to show them) into the ten-key random access remote controller. The interval timer can set the time between slides from 2 to 30 seconds.

# ***Multi-Image Show Set-up & Operation***

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## *Turning the Power On*

Turn the source select switch to "2." Connect the power cord 1 to source-1 and to the wall outlet. Connect power cord 2 to source-2 and to the "out" connector of the dissolve controller. Use the same power supply for source-2 as that of dissolve controller.

Now, connect the dissolve cord from the dissolve controller to either controller in-1 for an AVL or Kodak controller, or to controller in-2 for a Dataton controller.

Next, turn the power switch to ON (dissolve shutter is initialized) and the lamp switch to ON. The LED will light.

## *Determining Projected Image Position*

Advance the slide tray by pressing the forward/reverse switch. In the case of a 3-projector multi-image show using a set-up slide in each projector (e.g. AMI), turn ON the set-up switch of projector "B." This will be the basis for positioning the image. Open the dissolve shutter and adjust the position of the image vertically and horizontally by means of shift-1, shift-2 and the leveling feet.

After the image size has been determined, adjust the image focus. Keep showing basic projector "B" and turn the set-up switch of projector "A" ON. Adjust projector "A" in the same manner as stated above and turn its set-up switch to OFF. Overlap picture "A" on picture "B." Then adjust projectors "B" and "C" in the same manner.

Finally turn the set-up switch of projectors "A", "B" and "C" to ON to show the slide images of all three projectors and confirm how they are overlapped.

After the overlapping has been confirmed, turn the set-up switches of projectors "A", "B", and "C" to OFF. Then return the slide tray to the "starting point."

## *Starting & Finishing Projection*

To start projection, turn the AVL/Dataton dissolve controller ON. The slide projectors will operate according to the signals from the dissolve controller.

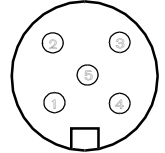
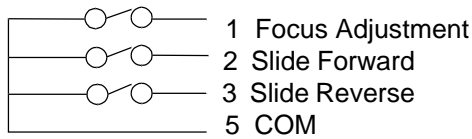
When projection is finished, turn OFF the lamp switch. Allow the lamp to cool for 2-3 minutes before turning the power switch OFF.

# Remote Connectors

Contact for remote controllers (remote-1 and remote-2) are arranged as shown below. Various functions can be controlled when they are connected to the projector's external controllers.

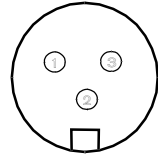
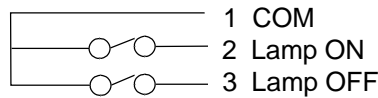
## Remote-1 Connector (DIN 5P)

The remote-1 connector is used for the Kodak Ektagraphic III remote controller.



## Remote-2 Connector (DIN 3P)

The remote-2 connector is used to turn the lamp on and off by remote control.



Note: Switch specification 0.4VA 28V MAX (AC/DC).

## 5 Year Parts/ 5 Year Labor

This product is warranted to be free from defect in material and workmanship for a period of five years from the date of invoice to the original purchaser.

If during the warranty period the product is found to be defective, it will be repaired or replaced at the facilities of Navitar. However, Navitar reserves the right to refund the purchase price if the replacement or repair is not commercially practical or timely. Parts not manufactured by Navitar carry only the warranty of their manufacturer. Lamps and fuses carry no warranty.

This warranty does not cover damage caused in transit; damage caused by misuse, neglect or carelessness; or damage resulting from either improper servicing or modification by someone other than Navitar. Further, this warranty does not cover any routine maintenance work that is reasonably expected to be performed by the purchaser.

No responsibility is assumed for unsatisfactory operating performance due to environmental conditions such as humidity, dust, corrosive chemicals, deposition of oil or other foreign matter, spillage or other conditions beyond the control of Navitar.

For service, repair or return procedures under this warranty, contact your distributor, your local Navitar field officer or Navitar direct at 716-359-4000 or 1-800-828-6778 in the United States.

Except as stated herein, Navitar makes no other warranties, expressed or implied by law, whether of merchantability, fitness for a particular purpose or otherwise. Further, Navitar shall not, under any circumstances, be liable for incidental, consequential or other damages.

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