



KOALA LIGHT PEN™
Owner's Manual

for
Atari
Computers

KOALA LIGHT PEN
Owner's Manual





We make computing more personal.™

ACKNOWLEDGEMENTS

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Table of Contents

INTRODUCTION	1
What is the Koala Light Pen?	1
System Requirements	1
GETTING STARTED	2
THE KOALAPainter MENU	4
The Color Set	4
The Brush Set	4
THE COLOR MENU	5
COMMAND	7
Draw	7
Point	7
Line	8
Lines	8
Rays	9
Frame	9
Box	9
Circle	10
Disc	10
Fill	10
Mirror	11
Magnify	11
Erase	12
Storage	12
Formatting a Disk	12
Saving a Picture	13
Loading a Picture	13
Indexing Files	13
Deleting Pictures	13
HINTS and EXPLANATIONS	14

Introduction

WHAT IS THE KOALA LIGHT PEN?

The Koala Light Pen with KoalaPainter software is the complete computer drawing tool! You can:

- Draw freehand using many different brushes and colors.

- Design geometric shapes of all sizes.

- Magnify your drawings for close-up work.

- Save your designs for future enjoyment.

- Mix over 200 different colors for dazzling effects.

All DIRECTLY on your screen, with the Koala Light Pen! KoalaPainter is easy to use—simply load the program and you can create your own designs immediately. Whatever your skill level, from beginner to serious artist, hours of fun and creativity await you!

SYSTEM REQUIREMENTS

- Atare Computer (minimum 48KRAM)

- KoalaPainter Diskette

- One Disk Drive

- Color Television or Monitor

- Koala Light Pen

Getting Started

Remove any cartridges from your system.

Insert your KoalaPainter into your disk drive.

Turn ON your television or monitor.

Turn ON your disk drive.

Turn ON your computer.

After the Title Screen appears, press the SPACE BAR to go to the Align/Inertia Screen. This screen sets up the pen for drawing. To align your pen point the pen to the VERTICAL line on the screen. Press the pen ONCE. Now point your pen to the HORIZONTAL line on the screen and press the pen once again. Your pen is now aligned.

Now you can set the Inertia level of the screen. Notice the frame with the white bar. This is your inertia setting. There are 5 levels of inertia. The lowest level of inertia means that when you draw, the "electronic ink" will follow the pen very rapidly and you will get a shaky line. Point the pen to the bottom of the white bar and press once. You are now at the lowest inertia setting. The highest level (five) makes the "electronic ink" follow the pen at a very slow, smooth rate. This setting will give you the smoothest line. Point the pen to the top of the frame and press once. You are now at the highest inertia setting. Level four is the default level. Experiment with setting different inertia levels.

IF YOU HAVE DIFFICULTY ALIGNING YOUR PEN OR SETTING YOUR INERTIA LEVEL, ADJUST THE BRIGHTNESS AND CONTRAST ON YOUR TV OR MONITOR.

After you have aligned your pen and set your inertia level, press the SPACE BAR once to move to the menu. You are now ready to discover the magic of the Koala Light Pen. The menu offers a variety of drawing and color options. However, to become familiar with the operation of the Light Pen, let's begin with the DRAW command. The menu and its parts will be described in more detail later in the manual.

Begin with freehand DRAW and follow along as you go.

Point the pen to the screen, but DON'T press down yet. Move the pen around the screen and notice that a white "cursor" is following the pen. The cursor indicates where the pen is pointing and what the pen is seeing.

Now point the pen to the box on the menu marked DRAW. This is the freehand drawing command. Now, with the pen and cursor pointing to the DRAW command, press the pen against the screen ONCE. You don't have to press very hard. Notice that the word "DRAW" has become highlighted. This indicates it is your current choice.

Okay, now we're ready to move to the drawing screen and begin drawing. To do this press the SPACE BAR once. A blank, white drawing screen will appear.

Now, position the pen on the screen where you want to begin drawing. Press the pen once and draw. It's that simple. To stop drawing all you do is press the pen again. You can then reposition your pen anywhere on the screen and begin drawing again.

To return to the menu, simply press the SPACE BAR. The menu will reappear and you are now ready to choose other commands, colors or brushes. Let's take a closer look at the menu now.

The KoalaPainter Menu

Look at the menu screen. The screen is divided into three sections: COMMANDS, BRUSH SET, and COLOR SET.

The COMMANDS are located on the first three rows of the menu. To select a command you point the pen to the command and press once.

The command name will be highlighted to indicate it is your current choice.

The BRUSH SET is located directly beneath the COMMANDS. To select a brush, point the pen to the brush and press once. A triangle will be positioned in the upper right corner to indicate it is your current choice.

The COLOR SET is located directly below the BRUSH SET. The first color box (the one on the left) is your background color. It is set to white. The other three boxes are your drawing colors. Orange, green and blue are your default colors. You can mix hundreds of other colors to draw with or to have as your background color. Let's take a closer look at that now.

THE COLOR MENU

One of the most powerful features of the Koala Light Pen is the COLOR MENU. Take a look at the COLOR MENU. To do this, point your pen to the command box marked COLOR MENU and press once. The COLOR MENU will appear. Notice that the four basic colors and patterns from the MAIN MENU are located at the bottom of the screen. The COLOR MENU allows you to change any of the three drawing colors or background color.

Now, notice the two bars of colors located at the right of the screen. The first bar is the Color Column. The second bar is used to set the level of color intensity or hue. Let's try changing one of the drawing colors.

Point the pen to the Orange color bar down below. Press the pen once. Notice the triangle in the upper right corner. This signifies it is the current color, and the color we will be changing. Point the pen to the diamond next to a color on the Color Column above and press the pen once.

The Orange color has now become the new color. Notice the intensity/hue level bar. It has changed to reflect the different levels of intensity/hue of the new color.

Now point the pen to the diamond next to a color on this bar and press once. Notice the drawing color has now changed to the new intensity/hue. You can now draw or fill with this new color.

Experiment with the Color Column and different intensity/hue levels to set some new drawing colors. The sky is the limit!

REMEMBER, you can only draw on backgrounds that are light. You should not try to draw on dark background colors. If you would like to see what your drawing would look like on a dark background, use the INVERT LUMINANCE feature.

The INVERT LUMINANCE feature will switch the luminance of your color. For example, if your drawing has been done on a white background, if you point the pen to the INVERT LUMINANCE line above and press once, your white background will be switched to black. This is a handy tool for checking out different effects of light and dark colors.

Let's take a look at the RAINBOW COLOR feature.

The RAINBOW COLOR feature changes one color in your picture into a moving “rainbow” of colors.

Select the color from your basic color set that you wish to change into a rainbow.

Position the pen over the RAINBOW COLOR line on the COLOR MENU.

Press once.

The menu will change to your picture and anything on your screen that was drawn in the color you chose to “rainbow” will have been changed into a constantly flowing rainbow of color. Pretty neat, huh!

Press the SPACE BAR to return to the menu. The rainbow will stop and your drawing will return to its original colors.

The default colors feature changes all of the colors in your picture back to the original color set: white background, orange, green and blue.

Point the pen to the DEFAULT COLORS line on the COLOR MENU.

Press the pen once. Your menu and picture will change to the original color set.

The RESTORE LAST COLOR feature allows you to return to the color last used.

Point the pen to the RESTORE LAST COLOR line on the COLOR MENU.

Press the pen once. Your picture will return to the colors used immediately before the last color change.

The ADJUST COLOR IN PICTURE feature allows you to change a color while viewing the picture.

Point the pen to the ADJUST COLORS ON PICTURE line on the COLOR MENU.

Press the pen once and you will return to your picture.

Point the pen to the background color or figure you wish to change and press the pen once.

Now, move your pen across the screen and notice that the colors are cycling through the color spectrum as you move.

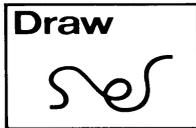
When you have the color combination you desire, press the pen once.

Make a different selection from the MAIN MENU to exit the ADJUST COLORS feature.

See the HINTS and EXPLANATIONS section for more information on the COLOR MENU.

Commands

Now, let's take a look at each command and option, in detail. Again, experimenting with each command and option as you read along is recommended.

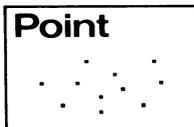


DRAW – freehand drawing

Move the pen to the point where you want to begin drawing and press once.

Begin drawing **WITHOUT** putting pressure on the screen.

To stop drawing, press the pen once.



POINT – makes individual points with your current brush.

Point the pen to the screen and press once.

A point will be placed on the screen.

Repeat as many times as you like.

Press the **SPACE BAR** to return to the menu.



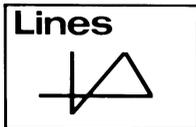
LINE—draws individual straight lines

Position the pen where you want to begin your line.

Press the pen once to anchor the beginning point.

Stretch the line in the desired direction and the desired length.

Press the pen once to fix the line.



LINES—draws lines that are connected end-to-end

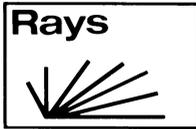
Position the pen where you want to begin your first line.

Press the pen to anchor the beginning point.

Stretch to line in the desired direction and the desired length.

Press the pen once to fix the position and begin another line from that point.

Repeat for more lines. To finish, press the SPACE BAR. This will return you to the menu screen.

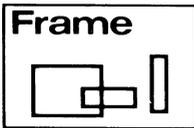


RAYS—makes lines that radiate from one point

Point the pen to the starting point and press once.

Move the pen to another point on the screen and press the pen down and HOLD IT DOWN while moving the pen around the screen to get the radiating ray effect.

Press the pen once more to stop.



FRAME—makes a rectangular frame

Point the pen to where you want to place the first corner of the frame.

Press the pen once to anchor the first corner.

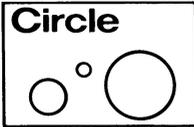
Move the pen around the screen, stretching the frame to the size and positioning you want.

When the frame is the desired size and position, press the pen once.



BOX—creates a frame that automatically fills with the selected color or pattern.

Follow the same procedure as the FRAME command.

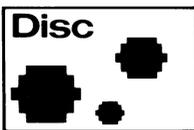


CIRCLE—makes a circle

Point the pen to where you want to begin your circle.

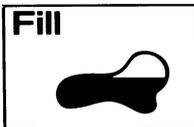
Press the pen once and stretch the circle until it reaches the desired size.

Press the pen once and your circle will be placed permanently.



DISC—creates a circle that automatically fills with the selected color or pattern.

Follow the same procedure as in the CIRCLE command.



FILL—fills in specified enclosed areas with color or pattern.

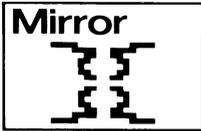
Select FILL from the MAIN MENU.

Select a color or pattern to fill with from the Color Set.

Move to your drawing screen.

Point the pen inside the area you will to fill and press the pen once.

See the HINTS and EXPLANATIONS section for further information about the FILL command.



MIRROR—creates four-way mirrored images using the current drawing command.

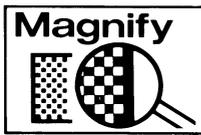
Select a drawing command such as DRAW, LINE, or CIRCLE.

Select MIRROR.

Move to the drawing screen and follow the instructions for the selected drawing command.

Whatever you create will be mirrored in all corners of the screen.

To cancel MIRROR, select MIRROR a second time.



MAGNIFY—enlarges portions of your drawing for detailed work.

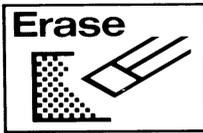
Select MAGNIFY

Return to your picture. You will see an enlarged section of your picture.

To move to a section where you want to do some detailed work, move the pen across the screen, “dragging” the enlarged picture with you until you have reached the area where you wish to work.

Once you have reached the area, you can go ahead and draw, put down geometric shapes, or do anything you can do in the normal size.

Experiment with the MAGNIFY command. Practice moving around the screen. REMEMBER, you should choose the drawing feature and brush you want to use before selecting MAGNIFY.



ERASE—erases everything on the drawing screen.

Select ERASE from the MAIN MENU.

The ERASE screen will appear. Point the pen to the “YES” and press once.

If you decide you don't really want to erase your picture, point the pen to “NO” and press once. You will be returned to the MAIN MENU.



STORAGE—lets you store and retrieve pictures on disk

Now that you have mastered all of the wonderful KoalaPainter commands, you probably have something that you would like to save so you can look at it later. To do this you have to do several things.

Formatting a Disk

Select the STORAGE command from the MAIN MENU. You will see a new screen with several options available to you. We will look at these options one at a time. The first thing you must do is format a blank disk so you can save your drawing.

Select FORMAT from the STORAGE MENU.

Remove the KoalaPainter disk and insert a blank disk in Drive 1.

Confirm with “Y.” The disk will be formatted and you will be ready to save a picture on this disk.

Saving a Picture

Select SAVE from the STORAGE menu.

Type in: D1 or D2: Filename (RETURN).

Your picture will be saved to your disk with that filename.

Loading a Picture

Select LOAD from the STORAGE menu.

Type in: D1 or D2: Filename (RETURN)

Your picture will be loaded. Press the SPACE BAR once to return to the MAIN MENU. Press it again to view the picture you loaded.

NOTE: Do not use extensions when entering a filename of a picture, as this may cause the picture to be excluded when the disk is indexed.

If a Bad Device message is encountered, hit any key to return to the STORAGE menu.

Indexing a Disk

Select INDEX from the STORAGE menu.

A list of pictures on the primary drive will appear.

Press the SPACE BAR to return to the menu.

Deleting Pictures

Select DELETE from the STORAGE menu.

Type in D1 or D2; Filename (RETURN).

Confirm with "Y."

Press the SPACE BAR to return to the menu.

Hints and Explanations

Color Menu

The command COLOR MENU allows you to change your three primary drawing colors of the background color in four ways. You can change any of the colors in your picture one at a time; you can create a moving “rainbow” of colors; you can restore the picture to the original color set; and you can restore the picture to the last color used.

When you change any of the colors in your picture, remember that you can change one color at a time. And, although you have a wide selection of colors and intensity levels from which to choose, only four colors will appear on your screen at any time.

When you have changed the colors in your picture and wish to return to the original color scheme, use the DEFAULT COLORS command. This automatically returns the colors on the menu and in your picture to the first colors to appear when the program is loaded.

Fill

This command colors entire areas of the screen. It fills in all directions until it encounters another color. You may fill onto any solid color, but not into a checkered pattern. Notice that it will “leak” out of any area that is not completely closed. If you do get such leakage, use your magnify command to repair the leak and refill over the area affected. If you want to stop a FILL, simply press the SPACE BAR and you will return to the menu. REMEMBER, you cannot fill over a patterned area, only a solid area.

Erasing Small Areas

To erase only part of your picture (in case you made a small mistake), select the background color from your color set and a brush to use as an eraser. Select the DRAW command and then draw over the area you want to erase in the background color.

For larger areas, use the box command and the background color. Make a box over the area you want to erase.

Photographing Your Pictures

Position the camera using a tripod.

Use Kodachrome 64 daylight film for slides or Kodacolor VR100 for photographs.

Take pictures in a darkened room or arrange a hood over the screen to shelter it from light reflections.

Set your camera's shutter speed for one second, use a light meter to determine the aperture.

LIMITED 90 DAY WARRANTY

Koala Technologies Corporation will repair or replace this product free of charge if it is found defective in materials or workmanship within 90 days from the date of purchase. Simply send it prepaid to Koala Technologies Corporation, 3100 Patrick Henry Drive, Santa Clara, CA 95052-8100 who will, within its sole discretion, either repair or replace the product.

This guarantee applies only to the original registered purchaser whose Warranty Card has been completed and mailed within 10 days of purchase. Tampering, abuse, or unauthorized repairs will void this warranty.

Koala Technologies Corporation neither assumes nor authorizes any representative or other person to assume for us any other liability in connection with the sales or any shipment of our products.

The rights specified within this warranty shall be the sole and exclusive remedy of the purchaser for any claim under the warranty. IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS ARE LIMITED IN DURATION TO A 90-DAY PERIOD FROM DATE OF PURCHASE. THE PURCHASER MAY MAKE NO CLAIM FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR ANY DEFECT.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other legal rights that vary from state to state.

After warranty expiration, defective products should be returned to Koala Technologies Corporation for repair and refurbishing. A flat fee of \$20.00 is charged to cover repair and refurbishing of the light pen plus a \$5.00 handling fee. Send your defective product, check or money order for \$25.00 and a letter with your name and full return mailing address, describing the defect to Koala Technologies at the address above.

Diskette Exchange Form

(please print clearly)

If you want to replace a damaged Koala software diskette, send the diskette back to Koala with a check or money order for eight dollars (\$8.00) and we'll send you a replacement diskette.

NOTE: ONLY ORIGINAL KOALA SOFTWARE DISKETTES SOLD WITH KOALA PRODUCTS MAY BE EXCHANGED UNDER THIS POLICY.

Return this form with your damaged diskette and check for \$8.00 to:

KOALA TECHNOLOGIES CORPORATION
Dept. D
Patrick Henry Drive
Santa Clara, CA 95052-8100

Name of Program _____

Reason for Exchange _____

Name _____

Address _____

City _____ State _____ Zip _____

Telephone (_____) _____

