

For more information,
please reference the
InView User Manual.

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Caution: U.S. Federal law limits this device to sale by or on order of a physician.
For additional reference information contact Arrow International, Inc.

ARROW
INTERNATIONAL

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INVIEW™ Quick Guide



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SET UP

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REFINE THE IMAGE

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MEASUREMENTS

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- ▶ Erase Text

ENTER TEXT

SAVE AND PRINT

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SAVE AND PRINT

SHORTCUTS

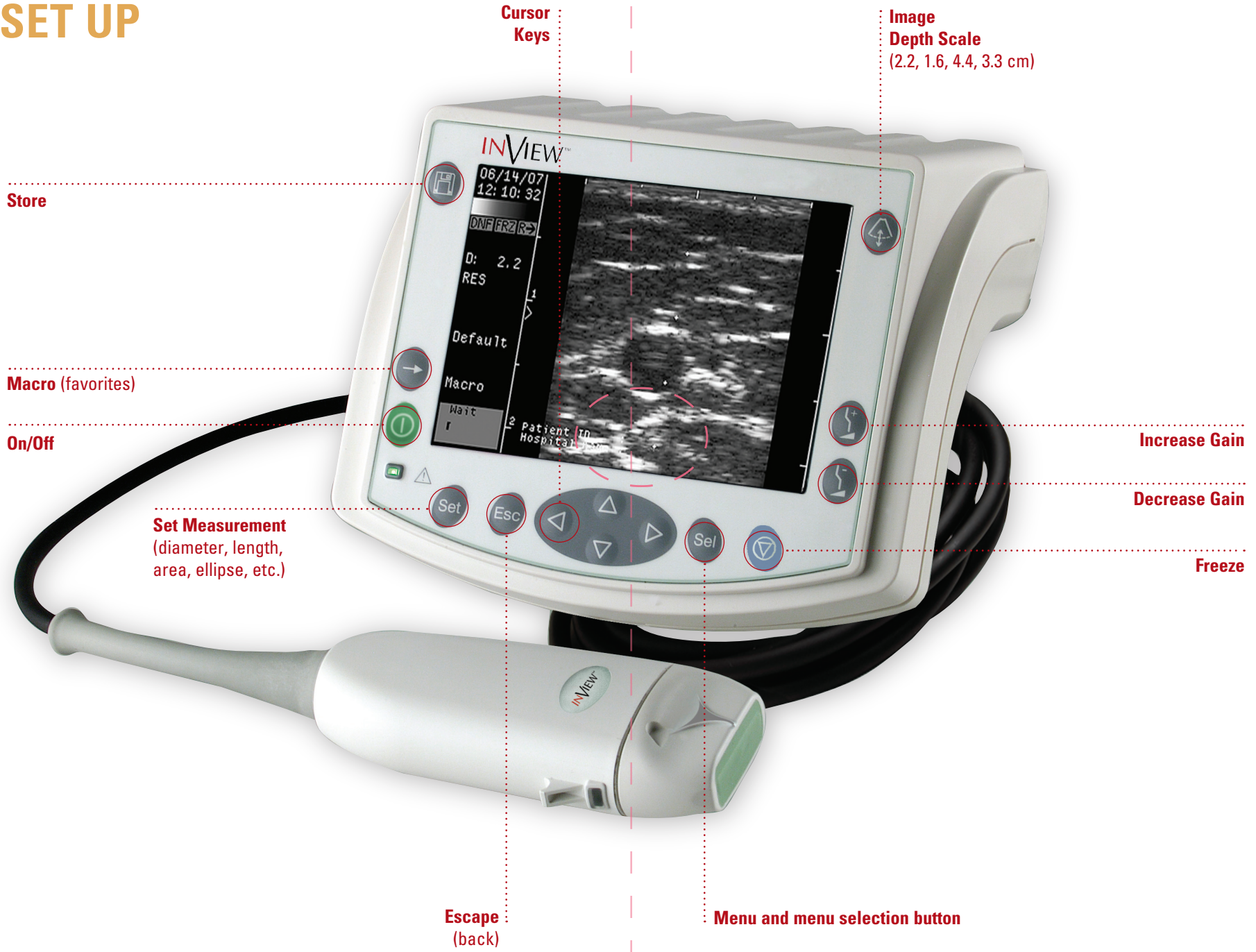
- ▶ Macros
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SHORTCUTS

VENOUS ACCESS

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SET UP



Cursor Keys

Image Depth Scale
(2.2, 1.6, 4.4, 3.3 cm)

Store

Macro (favorites)

On/Off

Set Measurement
(diameter, length, area, ellipse, etc.)

Escape
(back)

Menu and menu selection button

Increase Gain

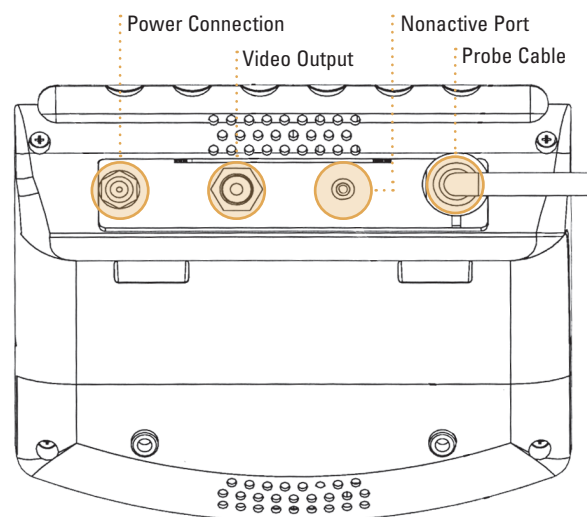
Decrease Gain

Freeze


SET UP

TURN ON THE INVIEW

The InView must be plugged into either a charged battery or the main power supply. The provided cords allow you to attach the scanner to either power source.



If you have just received your InView, the batteries will need to be charged for 2 hours with the provided charger. Based on a fully discharged battery with no residual charge, each battery lasts up to 3 hours.

Once the InView is attached to a power supply, press  to turn the scanner on. The InView is now ready to perform an ultrasound.

SCREEN SAVER

The Watchdog (screen saver) turns off the scanner, or the probe, after the InView has been inactive for a pre-determined amount of time. To turn on the InView after the screen saver has been activated, press any button. For more information about programming the Watchdog, see page 31 of the User Manual.

BATTERY CONNECTION



SET UP

TRANSDUCER ORIENTATION

In order to display an ultrasound image on-screen, you must apply coupling gel to either the probe or the patient's skin.

There is a gray arrow positioned at the center of the transducer head. This arrow corresponds with a dotted line on the screen marking the center of the ultrasound image. It is suggested that you use the arrow and the dotted line on-screen as reference points when performing vascular access procedures.

The arrow on the transducer should face you during procedures. If you want a transverse view (the vein appears on-screen as a circle), move the probe perpendicular to the vein. If you want a sagittal view (the vein appears on-screen as a cylinder), move the length of the probe parallel to the vein.



CLEANING

In general, use the gentlest method available to clean the InView. A solution of water and mild detergent may be used on the scanner and probe. Never use an abrasive sponge.


To disinfect the probe, Cidex® Activated Dialdehyde Solution is recommended.

Some products will damage the probe. Use of any of the following products **WILL VOID** your probe warranty.

- ▶ Acetone
- ▶ Methanol
- ▶ Denatured ethyl alcohol
- ▶ Mineral oil
- ▶ Iodine
- ▶ Any lotions or gels containing fragrance

REFINE THE IMAGE



ADJUST THE DEPTH

Press  to adjust the image depth.

Four depths are available: 1.6 cm, 2.2 cm, 3.3 cm and 4.4 cm. As you adjust the depth, the current level is shown on the left-hand side of the screen.

Each patient may require a different depth for the greatest vascular visibility.







ADJUST THE GAIN (CONTRAST)

Press   to adjust the gain (contrast) of the image, up or down.

Depending on the density of a patient's tissue, you may need to adjust the gain for better vascular contrast and visibility.



ZOOM


1. Press .
2. Use the cursor keys to highlight Zoom.
3. Press .
4. The zoom box will appear on the screen.
Note: If the scale is set to 1.6 cm and the zoom feature is chosen, the calipers will not appear.
5. Press  to resize the box.
Note: If the scale is set to 2.2 cm, the calipers cannot be resized, but they can be panned up or down.
6. Use the cursor keys to move the position of the zoom box on the image.
7. Press  *Zoom* or  to zoom in on the image.
8. Once you zoom in, press  again to turn the zoom off.

The flexibility you have when zooming depends on the depth of your image.




ZOOM BOX		
Image Depth (cm)	Repositionable?	Box Sizes (cm)
1.6	No	–
2.2	Yes, up and down	2 x 1.6
3.3	Yes, up and down	2 x 1.6, 2 x 2.2
4.4	Yes, up and down	2 x 1.6, 2 x 2.2, 2 x 3.3

MEASUREMENTS

To take a measurement, press . The image will freeze.

Press  repeatedly until the measurement you want to make is displayed.

DISTANCE





1. Press  until *Distance* is displayed.
2. The first caliper cross appears on the screen.
3. Using the cursor keys, move the crosshairs to the desired starting position.
4. Press  to fix the first crosshairs.
5. Press the cursor keys to place a second set of crosshairs in the desired position.
6. DO NOT press  again. The measurement will be lost.
7. The *Distance* is displayed on the left of the screen.



LENGTH

You can perform the Length measurement manually or using auto follow.

To take the measurement:




1. Press  until *Length* is displayed.
2. The first caliper cross appears on the screen.
3. Use the  to move the crosshairs to the desired position.
4. Press  to fix the first crosshairs.
5. Draw a contour along the structure with the cursor keys. You can do this two ways:
 - a. *Manual*
 - b. *Auto Follow*
6. DO NOT press  again. The measurement will be lost.
7. The *Distance* is displayed on the left of the screen.

MEASUREMENTS (continued)

AREA/CIRCUMFERENCE

You can perform the Area/Circumference (Circ.) measurement manually or using auto follow.




To take the measurement:

1. Press  until *Area/Circ.* is displayed.
2. The first caliper crosshairs appear on the screen.
3. Move the crosshairs with the cursor keys to the desired position.
4. Press  to fix the first crosshairs.
5. Draw a circumference along the structure with the cursor keys. You can do this two ways:
 - a. *Manual*
 - b. *Auto Follow*
6. DO NOT press  again. The measurement will be lost.
7. The *Distance* is displayed on the left of the screen.



MULTIPLE MEASUREMENTS

To take multiple measurements without losing the results of a previous measurement, you can use the Multi function.






1. After you have placed the second set of crosshairs with the cursor keys—and a measurement has been displayed—press  *Multi* on the left side of the screen.
2. The measurement just taken will remain at the bottom of the screen, and a set of new caliper crosshairs will appear.
3. If you need a different measurement type, press  until it is displayed.
4. Perform the second measurement according to the instructions for that measurement.
5. If you need another measurement, press  *Multi* again. Up to five measurements can be displayed on the screen using Multi.

ENTER TEXT

The InView allows you to enter text directly on each image. You have three headers and three lines of text available.

Patient ID and Hospital Name are default headers. Entering the Patient ID is also a default shortcut; see the Shortcuts section for more information.

ENTER TEXT

1. Press .
2. Press  until *Text* is highlighted.
3. Press .
4. Select Enter *Text*.
5. Select the header or line you want.
6. Use cursor keys to navigate keyboard.
7. Press  to choose each key.
8. To delete letters or numbers, use the Backspace key in the upper right corner of the keyboard.
9. Press  twice to place finished text on main screen.



HIDE TEXT


1. Press .
2. Select *Text*.
3. Select *Hide Text*.

EXPOSE TEXT

1. Press .
2. Select *Text*.
3. Select *Expose Text*.

ERASE TEXT



To remove a line of text.

1. Press .
2. Select *Text*.
3. Select *Erase Text*.
4. Select which line of text to erase.
5. Return to text option again and choose *Erase Text Line*.

SAVE AND PRINT


Note: When saving an image to disk, note the date and time the image was captured on the patient's chart to facilitate recalling the proper image.

SAVE AN IMAGE

Press  then  to save a displayed image in the scanner's memory. Images can be stored in the following modes: B Mode, B+B Mode, B+M Mode, M Mode and Zoom. Saved images are organized by the date and time they were stored. Always note the time and date of an image in the patient's chart so you can recall the image in the future.

The InView saves in excess of 300 images on its hard drive. When full, the next saved image bumps the oldest image from the disk.

RECALL AN IMAGE

1. Press .
2. Select *Save/Recall image*.
3. Select *Image from disk*.
4. Another menu will appear that contains a list of directories of images. It will look similar to the following:

```
[DIR] 01-12-07  
[DIR] 01-20-07  
[DIR] 01-29-07
```

"[DIR] 01-13-07" means a directory of images made on January 13, 2007.


5. Selecting one of these directories will display a menu with all the images stored on that date.
6. Select the date on which the desired image was stored.
7. Another menu will appear containing the images stored on the chosen date. It will look similar to the following:

```
B_103022.BMP  
BB104500
```


"B_103022" means a B Mode image stored at 10.30.22 hour.

"BB104500" means a B+B Mode image stored at 10.45.00 hour.

8. Select the image you would like to view.

When you are finished viewing an image, press  and select *Image Modes*. Choose your desired Mode to return to an active screen.

PRINT

Connect the printer to the InView using the video output on the rear panel marked . Make sure the printer is properly connected and turn on the printer. Bring up the image you would like to print (see *Recall an image*). Press the Print button on the printer.


SHORTCUTS

MACROS

The InView allows users to program six Macros (shortcuts) that can be quickly accessed from the main screen. By default, the first three Macros are set as:

1. *ID*: enter the patient's name or ID.
2. *Preset*: select your preset user profile.
3. *Zoom*: activate the Zoom mode.

ACCESS A MACRO




1. Press the  *Macro* on the left side of the keypad.
2. A list of programmed Macros will appear.
3. Select the desired Macro.

For more information on programming custom Macros, see page 35 of the User Manual.

USER PROFILES

You can create a customized User Profile by programming the InView to remember your personal application presets. This way, the InView will automatically recall your preferred application settings from the beginning of a procedure. You can program up to 10 preset profiles.

CREATE A USER PROFILE

1. Use the InView as normal, choosing your preferred settings as you work.
2. When satisfied with the settings, press  .
3. Select *Applications*.
4. Select *Edit*.
5. Select *Save Application As*.
6. Use the cursor keys to type a 7-character name for the profile ID, pressing  to choose letters or numbers.
7. Press  twice to confirm and store your user profile.


SHORTCUTS

The application settings that can be stored in a User Profile include:


- ▶ Gray map
- ▶ M Mode speed
- ▶ Image depth
- ▶ DNF (Dynamic Noise Filter)
- ▶ Image upside down
- ▶ Reverse
- ▶ Dynamic range
- ▶ Focus positioning
- ▶ Focal points number
- ▶ Frequency/Depth

RECALL A USER PROFILE

Recalling a user profile is a default shortcut.

1. Press  Macro.
2. Select *Preset*.
3. Select the desired user profile.

UPDATE A USER PROFILE

1. Recall the profile you wish to update.
2. Adjust the user preferences.
3. Press  .
4. Select *Applications*.
5. Select *Edit*.
6. Select *Save Application*.