OPTRON mobile

User Guide

Vers. 1.4AL
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Before operating this device, please read this user guide thoroughly and retain it for future reference. For questions please call 1-888-567-8766.
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1 NOTE (FCC COMPLIANCE):

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The use of shielded cables is required to comply with class B limits in Subpart B of FCC Rules. Do not make any changes or modifications to this equipment unless otherwise specified in this user guide. If such changes or modifications should be made, you could be required to stop operating this device.

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2 SAFETY INSTRUCTIONS

Do not open any of the OPTRON’s components. Any unauthorized opening of the OPTRON or its components can cause death or serious injuries and will automatically void any warranty.

Do not use the OPTRON near water or in moist/rainy situations (hazard of electric shock). Only use the OPTRON indoors.

Always follow these instructions when setting up, using and packing the OPTRON.

Do not use the OPTRON in a dusty or extremely humid environment (above 70% humidity). Do not expose the OPTRON to temperatues above 90° F (35° C) or under 50° F (10° C).

When connecting the cables to the OPTRON make sure that the plugs sit firmly in the sockets and that the cords are not tense.

Make sure that cords and cables connected to the OPTRON cannot cause tripping or stumbling.

Data on your PC’s hard disk is stored magnetically. Make sure that there is no interfering magnetic or electromagnetic influence to your PC or laptop when using it with the OPTRON.

Always unplug this device and its accessories from the wall outlet before cleaning. To clean your OPTRON, use a soft damp cloth. Never use chemically trested cloth or solvents like paint thinner.
3 THE OPTRON MOBILE: PARTS AND PIECES

3.1 Overall view

3.2 Control Panel
3.3 Control Panel Base

Control panel Base

Monochrome/Color Selection Knob

Power Switch

3.4 Ports

Monitor Port

Direct Out Port

Power Socket
4 GETTING THE OPTRON MOBILE READY

4.1 Setting up the OPTRON mobile

- Mount the Clamp to a desk or table. To make sure that the surface of your table will not be scratched by the Clamp, test mount the Clamp first on a hidden spot of your table. If you notice that your table is likely to be scratched, use a thin plastic shim between the Clamp and the table.
- Make sure that the clamp is tightly fixed to the table.
- If you use the OPTRON mobile without the extension kit and with the X/Y-Tray, put the Tray Extension Ring into the notch sticking up from the Clamp.
- If you use the System Extension, insert the Extension Bar into the notch sticking up from the clamp. The thick plastic end of the Extension Bar has to be at the top.
- Insert the Swivel Arm carefully into the notch of the Clamp or – if the System Extension is used – into the Extension Bar’s upper end.
- Make sure again that the Clamp is connected tightly by carefully turning the swivel arm. Retighten the Clamp if necessary.

4.2 Connecting the OPTRON mobile to the power supply

- Insert the small round plug on the transformer cable into the black Power Socket on the back of the OPTRON mobile’s control panel base.
- Connect the power cable to the transformer first and then to an A/C outlet. It is highly recommended to use a high quality surge protector. OPTRON ASSISTIVE TECHNOLOGIES cannot be responsible for damage caused by electric surge.
4.3 Connecting the OPTRON mobile to a VGA Monitor

- Set up your VGA monitor according to the monitor instructions. If the VGA cable is not attached to the monitor, plug one end of the monitor’s VGA cable into the VGA port on your monitor.
- Connect the other end of the cable to the Monitor Port on the back of the OPTRON mobile’s control panel base.

Please note:
Please be careful to insert the plug the right way and not to bend or break the pins on the cable.
- If you connect a TFT monitor to your OPTRON mobile, you might encounter a blurry and unsteady picture with vertical stripes. If this is the case, open the setup/control menu on your monitor, go to „clock” and move the clock value slowly up or down. You will notice that either increasing or decreasing the value will reduce the number of vertical stripes on your monitor. You should be able to find a clock value without any stripes at all.

4.4 Turning on the OPTRON mobile

- Turn on your monitor. Turn on your OPTRON mobile by pushing the Power Switch to the “ON” position.

4.5 Connecting a Television to the OPTRON mobile

To connect a television to your OPTRON mobile use a composite video cable (not included).
- Turn off your OPTRON mobile and your television.
• Connect one end of the cable to the composite “Video In” port on your television.
• Connect the other end to the *Direct Out Port* on your OPTRON mobile.
• Turn on both devices.

**Please note:**
*When using the Direct Out Port on your OPTRON mobile as the connection port to a display, you cannot use the brightness dimmer, the line reader, reversed polarity nor monochrome color.*

### 4.6 Connecting the OPTRON mobile to a computer/laptop via USB

You can connect your OPTRON mobile to a desktop computer or a laptop via USB 2.0 by using the OPTRON View software and the OPTRON USB converter (optional accessory). Please contact OPTRON Assistive Technologies (1-888-567-8766) for more information about this setup.

**Please note:**
- *When using the Direct Out Port on your OPTRON mobile as the connection port to a display, you cannot use the brightness dimmer, the line reader, reversed polarity nor monochrome color.*
- *As compatibility problems with computers and computer components might still occur, OPTRON Assistive Technologies cannot guarantee the proper function of this setup.*
4.7 Connecting the Optron mobile to a computer/laptop via TV Card

You can connect your Optron mobile to a desktop computer or a laptop through a TV card. To do so, your computer/laptop has to be equipped with an TV/video card (internal, PCMCIA or external). To connect the two devices, use the the Direct Out Port on your Optron mobile. A composite video cable is required (not included). For setup instructions please refer to your TV card’s user guide.

Please note:

- When using the Direct Out Port on your Optron mobile as the connection port to a display, you cannot use the brightness dimmer, the line reader, reversed polarity nor monochrome color.
- As compatibility problems with computers and computer components might still occur, Optron Assistive Technologies cannot guarantee the proper function of this setup.
5 WORKING WITH THE OPTRON MOBILE

5.1 Desktop viewing (close distance)

- When using the OPTRON mobile for close distance viewing like reading or writing on the desk, the Camera Head faces downward.
- Make sure that the Close-Up Lens is attached to the bottom of the Camera Head over the camera lens opening (working position). The Close-Up Lens snaps on to the Camera Head magnetically and adjusts itself into the right position automatically.
- Adjust the picture on your display by turning the Camera Base Ring within the Camera Head until it is upright (Twist-Cam®).

Please note:
- The OPTRON mobile is equipped with two Close-Up Lenses: Please use the lens without dots when the camera is operated on the lower height without the arm extension. The Close-Up Lens with the dots should be used when the camera is on the higher height (arm extension applied).
- Do not force the Camera Head or the Camera Socket Ring beyond the limitation points as this can also seriously damage your OPTRON mobile.

5.2 Distance viewing (far distance)

- When using the OPTRON mobile to see the surroundings, turn the Camera Head into a horizontal position.
- Remove the Close-Up Lens from the camera lens opening and put it in the park position at the Camera Base Ring. The Close-Up Lens snaps on to the Camera Head magnetically and adjusts itself into the correct position automatically.
• Adjust the picture on your display by turning the Camera Base Ring on the Camera Head until it is upright (Twist-Cam® Technology).
• Move the camera to the left and the right by turning the Swivel Arm clockwise or counter-clockwise.

Please note:
• The camera head can only be turned on the Swivel Arm, bending it is not possible and can seriously damage your OPTRON mobile.
• Do not force the Camera Head or the Camera Socket Ring beyond the limitation points as this can also seriously damage your OPTRON mobile.

5.3 Zooming in and out
• Adjust the image size by pushing the Zoom in or the Zoom out button.

5.4 Auto focus on/off
• If you encounter a situation where you do not want to use the auto focus function (like writing, for example), you can turn the auto focus off by pushing the Auto Focus ON/OFF button. The Auto Focus Control Light will turn off.
• To turn the auto focus function back on, push the Auto Focus On/OFF button again. The Auto Focus Control Light will turn on again.

5.5 Reversed Polarity
• To reverse the picture’s polarity into negative (dark colors in the original will become light on the screen and vice versa), push the Reverse Polarity Toggle on the Control Panel.
Push and release the button and the picture will change back to positive on the screen.

5.6 Selecting Monochrome Colors

The OPTRON mobile offers several options of monochrome colors to enhance the contrast.
- Choose your preferred setting by turning the Monochrome/Color Selection Knob on the Control Panel Base. The selection can be combined with reversed polarity to increase the number of options even further.
- When selecting a different monochrome color, you might have to adjust the brightness by turning the Brightness knob.

5.7 Adjusting the Flex Joint

Please note:
- A video showing the joint adjustment can be viewed at: www.youtube.com/watch?v=NSd0rm2KX98
- When adjusting the joint, do not overtighten the screws as this might damage it.

Part 1: Adjusting the Swivel Joint

- Using the small Allen wrench without flag, open the set screws on the part of the joint that is connected to the Optron steel arm.
• Using the big Allen wrench, tighten or release the joint screw on the top.

• Using the big Allen wrench, tighten or release the joint screw on the bottom.

• Tighten both set screws. Repeat steps 1-4 if joint wiggles or feels too tight.

Part 2: Adjusting the Rotation Joint

• Using the medium size Allen wrench with flag, open the set screw on the part of the joint that is connected to the camera head and facing towards the camera lens.
• Insert the flagged Allen Wrench into the hole at the top of the joint. Turn the camera head until the Allen wrench sinks a little deeper into the joint and blocks the camera head rotation.

• Tighten or loosen the rotation joint by turning the camera head approximately 5-10 degrees against the blocked bolt. Looking from the steel arm towards the camera head, turn clockwise to loosen or counterclockwise to tighten.

  Rotate camera head clockwise: Loosen

  Rotate camera head counterclockwise: Tighten

• Remove the Allen wrench from the hole and use the same wrench to tighten the set screw. Repeat steps 5-8 if joint wiggles or feels too tight/loose.
5.8 **Changing the clamp height**

Upon delivery, the spacing block on the *Clamp* is located between the red clamp base and the notch base.

If a table is so thick that the *Clamp* cannot be attached to it, open the two screws on the top of the *Clamp* base with a Phillips screw driver (not included).

Insert the screws into the spacing block.

Put the *Clamp* base between the spacing block and the notch base and tighten the screws. The *Clamp* is now ready to be used on a thicker table board.
6 TRAVELING WITH THE OPTRON MOBILE

6.1 Packing the OPTRON mobile

For travel, please pack your OPTRON mobile as shown in the picture: