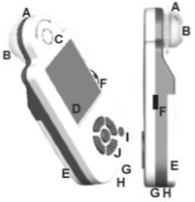


ViTiny FUN30 Users Manual ver. 20080226

Appearance Introduction



- A Focal Distance Adjusted
- B Lens
- C Auxiliary Aiming
- D Display Screen
- E Battery Cap
- F 3-way Rotation Button
- G Power Hole
- H Hanging Ornament Hole
- I Power Button
- J Function Button

Attention: The product includes three Ni-MH rechargeable batteries. Recharge Ni-MH batteries every several months, even if system is not used, to maintain battery life.

Notices of Accessories

Anti-slide Pads

Anti-slide Pads can assist in positioning ViTiny. Judge the necessity of sticking the anti-slide pads onto ViTiny according to personal habit of use.



Supply Power by the Battery or Adaptor

You can use AAA nickel metal hydride battery, alkaline battery or Ni-MH rechargeable battery to supply power for this product. Open the battery cap in the instructed direction to install the batteries. If you are intend to use ViTiny for a long time, it is suggested to use adaptor to supply power. Take out the battery from ViTiny, then Connect one extremity of the mini USB line to the power hole of ViTiny, another extremity of the mini USB Cable to the USB hold of adaptor, and then plug the adaptor into the outlet.



Recharging Ni-MH rechargeable Batteries

Please install the Ni-MH rechargeable batteries into ViTiny and take out accessories of adaptor and mini USB Cable. Then, connect one extremity of the mini USB line to the power hole of ViTiny, another extremity of the mini USB cable to the USB hold of adaptor, then plug the adaptor into the outlet.



Operation Description

Press the Power button for 2 seconds to turn on the power of ViTiny. On the screen, the immediately magnified images will be shown.



- ▶ **Power:** To turn on/off ViTiny press the power button for 2 seconds.
- ▶ **Distance Dial:** Clear plastic dial changes distance from ViTiny lens to surface and stop the lens from touching target surface. This focusing mechanism is used to get a clear observation image.
- ▶ **Special Effect:** Press **image effect** button to select different image effect modes and press this button for 2 seconds to turn scale on or off.
- ▶ **Return:** When you enter **setting** mode or other function menus, you can use this button to go back. This button has no action when you press return button in the observation mode, because the observation mode has the first status of mode.
- ▶ **Freeze:** Press **freeze** button to freeze current image on the display screen.
- ▶ **SET:** Press **set** button to enter the setting mode and detail introductions are below.
- ▶ **Light Control:** You can control lighting by pressing **light control** button and please turn off the led light while the light has enough of the observed object itself or environment to avoid overexposing by the light is too bright. If the screen appears unclearly, please turn on the light of **led**, because it means there's not enough light.
- ▶ **3-way Rotation Button:** The function of 3-way Rotation Button includes zoom in/out and freeze-frame. Turn right to increase the magnifying rate and turn left to decrease the magnifying rate, then press down to freeze the current image on display screen.

Setting of Functions

- ▶ **Power Saving:** Set the Power Saving Mode and under the Power Saving Mode, the screen will be turned off, but the **led** lighting continues to flash.
- ▶ **Auto Shutdown:** Set the Auto Shutdown Mode.
- ▶ **Status Display:** Set the appearance of Status Display or not.
- ▶ **Brightness:** Set the brightness of screen.
- ▶ **Factory Default:** Resume the original setting.
- ▶ **White Balance:** White balance has on/off setting.

Image Effects

- ▶ **Gray Mode (G) :** Disappear colors and makes the image simplify to discriminate easily.
- ▶ **Inverse Mode (I) :** Augment the observation of the light-colored image.
- ▶ **Emboss Mode (E) :** Accentuate the symbol.
- ▶ **Dual Window View Mode (D) :** An image magnified at the least magnifying rate will immediately show on the right half of the screen, and an image magnified at the largest magnifying rate will immediately show on the left half of the screen.

Status

	Battery Low	When the power of batteries is going to be used up, this icon is shown and flashes continuously.
	Image Effect	N Normal Mode G Grey Mode I Inverse Mode E Emboss Mode D Dual Window View Mode
	Freeze	Freeze image, this icon (Key) appears. Press again to resume the static state of the display screen.
	Magnifying	The current magnifying rate is shown.
	Central indication iframe	Center position of lens, then press special effect button and hold for 2 seconds to switch to scale.

	Scale	The value in the right is the total length of the scale, and the value will change when you zoom in the objects. The scale is not precise calibration, it is for references only.
	Power Supply by USB or adaptor	When you use USB Power Supply instead of batteries, the icon will show on the monitor.
	Charging	When the batteries are charging, the icon will show on the monitor.

Diagnosis of Malfunction

If your product can't be operated normally, before you contact the retailer or ViTiny agent, please read the [list of problems](#) below.

Problem	Possible Reasons
Blank screen or Power cannot be turned on.	<ul style="list-style-type: none"> ⇒ The product is at shutdown status or into power saving mode. ⇒ The batteries have not been correctly installed in the battery chamber or the power of batteries has been used up (when power is supplied by batteries). ⇒ The power has not been correctly connected to ViTiny or power supplier, or the power supplier has not been plugged to the socket (when power is supplied by power supplier).
ViTiny shuts down without any warning sign.	⇒ Insufficient power.
No hinting sign is shown on screen.	⇒ The hinting function on screen may have been turned off. Enter Menu of Functions to turn on the function of Status Display.
No hinting sign is shown on screen, and the image is fixed and unchanged.	⇒ The hinting function on screen may have been turned off, and the freeze button may have been pressed. Press the freeze button again to release the lock status and enter Menu of Functions to turn on the function of Status Display.
The auxiliary light flashes and the screen are blank.	⇒ ViTiny has entered Power Saving Mode.
The screen is unclear.	<ul style="list-style-type: none"> ⇒ The surrounding light is too strong, so move ViTiny to a darker position. ⇒ The brightness of screen needs to be adjusted. ⇒ The screen is dirty and needs cleaning.
The image is blurred.	⇒ Adjust the transparent shell to get a suitable focal distance.

Safety

- ViTiny is non-waterproof, so keep ViTiny dry.
- Do not uses in humid place like bathrooms. A dry environment will extend ViTiny life.
- Use ViTiny only at 5°C~ 45°C.
- Sudden temperature change may form dew inside ViTiny, like entering a warm room in cold winter. Put ViTiny inside a handbag or plastic bag to slow temperature changes.
- Do not let the ViTiny lens face the sun or strong lighting for a long time because powerful lighting may hurt the light-sensitive electronics.
- Avoid touching the lens.
- The white LEDs which illuminate the microscope target field are very bright. Do not stare directly into these LEDs because it may damage your eyes.
- The clear plastic distance shell sometimes picks up dirt or toxic material from a microscopically observed surface. Be careful touching this to human skin. Wash carefully or disinfect as needed.
- Do not remove power/batteries when ViTiny is on, because this may cause information loss or circuit damages.

Maintenance

- ▶ Do not put ViTiny in a humid environment. A dry environment is helpful to extend the life of ViTiny.
- ▶ Sudden temperature change may form dews inside ViTiny, just like entering a warm indoor space in a cold winter.
- ▶ If being powerfully impacted, vibrated or distorted, ViTiny may be malfunctioned.
- ▶ Turn off ViTiny before cutting the power or removing the batteries.
- ▶ Avoid letting the lens face the sun or other strong lighting sources for a long time. Powerful light may damage the sensitive component, and can cause white spots on screen.
- ▶ Avoid touching the lens and do not forcefully dismantle the transparent shell or squeeze the screen, power wire or battery cap because all these parts can be damaged easily.
- ▶ Do not use or store ViTiny at an area of strong magnetic field or around any devices, which may cause strong magnetic field.
- ▶ When ViTiny is not in use, turn it off and remove the batteries or unplug the power wire.

Specifications

Sensitive component	CMOS
Effective pixels	300,000 pixels
Lens	High sensitivity lens
Auxiliary light	White LED × 3 with super high brightness
LCD screen	1.8" TFT color LCD screen
Magnifying rate	FUN30(5x~20x),
Plug	DC IN terminal (mini USB plug)
Power	Three AAA, RO3, 1.5V batteries or Ni-MH rechargeable batteries. AC transformer (Output: DC 5.0/1000mA; Input: AC 100-240V 50/60Hz)
Size	120 × 56 × 25 mm
Weight	The weight of ViTiny is about 70 grams (not including batteries)
Operation environment	Temperature: 5°C ~ 45°C Humidity: Below 85% (no dew)

※ The design and specifications are subject to change without notice. (Please refer to our website at <http://www.1-plan.com.tw> for any revision or change.)