

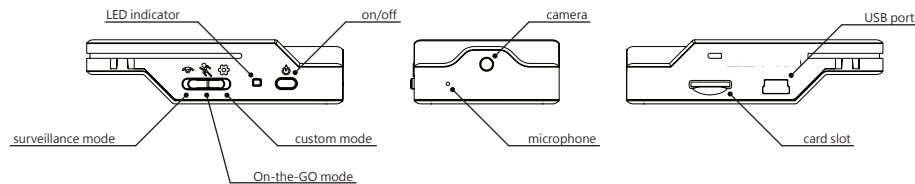
MR4: mini DVR Quick Start Guide

Overview

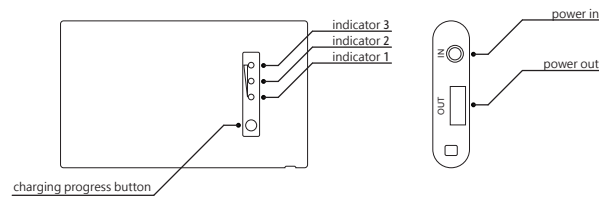
Congratulations on your purchase of the MR4 mini DVR!
The MR4 comes with a mini DVR and a PB1850P extended battery which can last up to 24 hours during typical use. By plugging in the 5V DC adapter, MR4 can achieve infinite circular recording for surveillance use. If using 32GB memory card, MR4 can record around 96 hours video.*

**Actual life and performance may vary depending upon usage and settings; battery not replaceable.*

MR4 mini DVR at a Glance



MR4, PB1850P Extended Battery at a Glance



Features

Digital video recorder – recording of 640x480(VGA) or 320x240(QVGA) video and sound.

Configurable video quality – high / medium / low

Circular recording – loop back recording once memory card is full

Time stamp – put time stamp on video

Frame rate adjustment – lower the frame rate to save memory space

Auto split file – split files for every 10 / 15 / 30 minutes, easily manipulated to Facebook, YouTube, Twitter

Selectable day/night/auto mode – select day mode, night mode or auto to suit your environment

Vertical Flip – record in either orientation

Auto daylight saving time(DST) adjustment

Support max 32GB microSD(TF) card (for better performance, use card with class 4 or above and format the card before use).

Package Contents

Please unpack your MR4 and check that the following were included:

- MR4 mini DVR
- PB1850P Extended Battery
- 5V DC Adapter
- USB 2.0 Cable
- PB1850P Charging Cable
- Quick Start Guide

Minimum System Requirements

- Windows 2000, XP, Vista, 7 (mass storage class)
- Windows Media Player 9
- Intel Pentium class computer
- USB 2.0 port for hi-speed transfers and charging

Charging

The MR4 mini DVR comes with an internal rechargeable battery. To use the mini DVR for the first time or not using the mini DVR for a long time, remember to fully charge the battery and resync the time by using the configuration tool (see section "Time synchronization and custom settings configuration"). You can charge your mini DVR through the USB port of your computer or the DC adapter.

To charge the battery through USB port, connect the USB cable to the USB port of the computer and the mini DVR. For details, please see the status below. The mini DVR will function as a mass storage device, you will not be able to record video at this moment.

To charge the battery through DC adaptor, connect the DC adaptor to the mini DVR. For details, please see the MR4 mini DVR status below. Moreover, you will also be able to record video while charging.

To charge the PB1850P extended battery, connect the extended battery charging cable to the computer. For charging details, please see the PB1850P extended battery status.

WARNING: Do not charge the PB1850P extended battery while the MR4 mini DVR is connected! Please charge them separately.

Recording

The power button is located at the right side of the mini DVR. It can turn the mini DVR on or off.

Start Recording

Press and hold the Power button for approximately 2 seconds until the green LED is on, and then release the button. When you see the green LED flashing, the mini DVR is recording. Otherwise, please see the status below.

Stop Recording

Press and hold the Power button for approximately 2 seconds until the green LED is off.

WARNING: Turn off MR4 mini DVR before removing card!

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MR4 mini DVR Status

Without DC adapter

Green LED on: mini DVR is booted up
Red LED on: no card, card fail, battery low or card full (not in circular recording)
Green LED flashing: normal recording
Green / Red LED intermittent flashing: battery low and recording

DC adapter plugged in / Connected to PB1850P extended battery

Red LED flashing: charging
Red LED on: no card, card fail or card full (not in circular recording)
Orange / Green LED intermittent flashing: charging and recording
Green LED flashing: charging complete and recording
All LED off: charging complete and no recording

Connected to computer

Orange LED on: charging
Green LED on: charging complete

MR4 Mode switch

Switch between surveillance, on-the-go and custom mode. Default setting is shown below:

	Surveillance	On-the-GO	Custom (default)
Video quality	High	High	(High) / Medium / Low
Resolution	320x240	640x480	640x480 / (320x240)
Circular recording	Enabled	Disabled	(Enabled) / Disabled
Timestamp	Enabled	Disabled	(Enabled) / Disabled
Frame rate	High	High	High / (Low)
Split file time (min)	30	15	10 / (15) / 30
Day / Night mode	Day mode	Day mode	(Day mode) / Night mode / Auto switching
Orientation	Normal	Normal	(Normal) / Vertical Flip

* Setting video quality to low, resolution to 320x240 and frame rate to low can have the longest recording time, functioning similarly as a digital voice recorder.

** The recording mode cannot be changed after the mini DVR starts recording

Connecting to computer

To connect the MR4 mini DVR to your computer, follow these instructions:

- 1 Connect the larger end of USB cable into an available USB port on the computer.
- 2 Connect the smaller end of the cable into the USB port of the mini DVR.
- 3 The mini DVR will appear in My Computer as _ mini DVR.

Time synchronization and custom settings configuration

Download the configuration tool from the instructions in the software guide.

REMARK: If the time shown is year 2026 or beyond due to loss of Real Time Clock, recording time will not be shown on video even timestamp is enabled. Please use the configuration tool to resync the time and delete files in 2026 or beyond!

PB1850P Extended Battery Status

Connected to computer

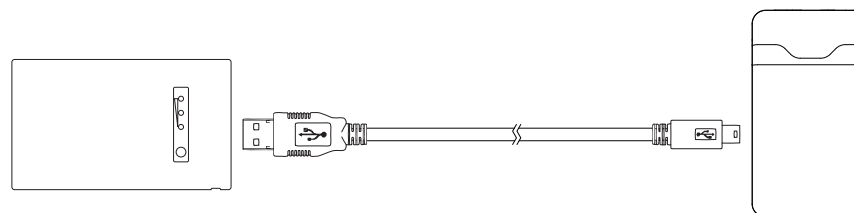
Indicator 1 Red LED on: charging
Indicator 1 Green LED on: charging complete

To check the charging progress, press the button and the progress will be shown:

Indicator 1 Green LED on: 0 - 30%
Indicator 1 & 2 Green LED on: 30 - 60%
Indicator 1, 2 & 3 Green LED on: 60 - 100%

Using the MR4 with PB1850P

By using the USB cable, connect the MR4 mini DVR to PB1850P extended battery.



Warranty Information

Getting Technical Support

Before you contact Technical Support, we encourage you to read the Tips & Troubleshooting to see if your question is covered there. If you have questions about the use or features of your mini DVR as well as other NST products,

MR4 mini DVR Quick Start Guide

Environmental Requirements

Storage temperature: 0 to 45°C

Operating temperature: 0 to 45°C

FCC Regulation

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1 This device may not cause harmful interference, and
- 2 This device must accept any interference received, including interference that may cause undesired operation.

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 interference to radio or television reception, which can be determined by turning the equipment off and then on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1 Increase the separation between the equipment and Z11 mini DVR.
- 2 Connect the equipment to a different outlet so that the equipment and Z11 mini DVR are on different branch circuits.
- 3 Consult the dealer or an experienced radio / TV technician for help.

