

Tachyon Micro HD Instruction Manual

Select Language ▼
Powered by Google Translate

Tachyon Inc.

Website: www.tachyoninc.com
Email: support@tachyoninc.com
Phone: 972-353-0888



Dear Customer,

Thank you for buying the Tachyon Micro HD. These Micro cameras are the latest of our video and still helmet cameras designed for filming extreme action in extreme conditions. They are very rugged and very simple to use, while delivering 30FPS of quality video.

The Tachyon Micros are shockproof, waterproof, and foolproof. Take them anywhere on land, into the sea, and into the air and bring back your stunts, adventures, and bloopers. A patented shock-proof battery system eliminates an all-too-common problem among other action cameras; the loss of power and recorded files caused by the jarring loose of the batteries. This innovation ensures that videos taken in challenging and perhaps impossible-to-repeat situations will not be lost.

And unlike other action cameras which need to rely on an external waterproof case, the Tachyon Micro HDs are designed to be waterproof from the start. Combined with the patented Dive Lock (see below), the Micro HD allows you to film to a depth of 100 feet (30 Meters).

The Tachyon Micro HD shoots video in superior quality standard ng modes: Superior-Quality Video and Time-Lapse Photography. It makes use of the 4GB - 64GB Micro Memory cards, for the longest recording times on the market.

About Tachyon

Tachyon, Inc. is a company that deals in extremes: We make extremely cool products for extreme people who engage in extreme activities. In order to make the best products, Tachyon, Inc. does not compromise on materials or on the quality of construction. We exceed industrial standards to ensure that our products exceed your expectations.

Please be sure to set up your new action camera using the following instructions. If you have any questions feel free to contact us.

The Management
Tachyon, Inc.

INDEX

Note: To print this HTML manual, please set your printer to print black text on white background.

Quick Start Video	Connecting to Your TV
Inserting Batteries	NTSC & PAL
Micro Memory Cards	TV Playback
Recording Video	Storage
Video/Photo - Unlock/Lock	Operating Systems
Time Lapse Photos	Battery Details
Setting Time & Date (optional)	Technical Support
Mounting	Video Shooting Tips
Sound Recording	Disclaimer
Shock Resistance	Video Publishing Guide
Waterproofing & Dive Lock	Video Statistics
Connecting to Your Computer	
Managing Files	Warranty
Computer Playback	

Tachyon[®] MicroHD

INCLUDED IN THE BOX

Tachyon
Micro



Shockproof
Battery
Cartridge



Universal
Mount &
Tripod Adaptor



Impact
Armor



6" (15.24 cm)
3M Dual-Lock
Fastening Strip



TV
Cable



USB
Cable

Tachyon[®] MicroHD GunCam[™]

OPTIONAL ACCESSORIES



Zinc-Alloy
Picatinny
Rail Mount

Quick-Release
Handlebar
Mount



Additional
3 Feet
3M Dual-Lock
Fastener



Additional
10 Pieces
Impact Armor

4GB-32GB
Micro
Memory Cards



Energizer Ultimate
Lithium AAA Batteries

Quick Start Video



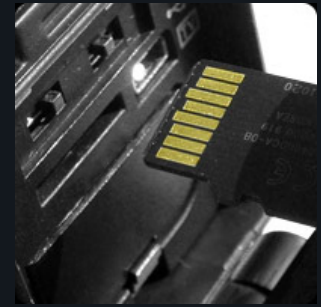
Inserting Batteries

- To get started, insert two AAA batteries into the battery cartridge. Always insert the + side of the battery first, before snapping the - side firmly into place.
- Now insert the cartridge, with the two contact points leading, into back of your Micro camera. Make sure the red latch locks firmly over the cartridge.
- For batteries, we recommend Energizer Ultimate Lithium. These give the longest battery life. In cold weather use ONLY this kind of battery. You may also make use of brand-name rechargeable AAA batteries.
- **Rechargeable batteries, while saving money, will not last as long - especially in cold weather. And there is a chance that you will lose the last file you are recording due to a sudden drop in power.**



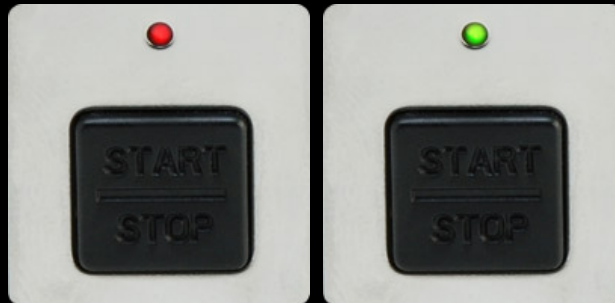
Micro Memory Cards

- In the slot to the left, insert your micro memory card with the gold leads facing up.
- Be sure that the memory card clicks into place. You may need to use your fingernail to push it in far enough to lock.
- To prevent possible problems with your camera, use only Class 6 or above micro memory cards.
- **Beware of counterfeit cards.**
- We recommend that you use a Class 6, 8GB Micro Memory card or larger. These will give you longer recording times so that you can be record more action without having to stop and load a new card.
- 4GB, 8GB, 16GB, 32GB, 64GB cards are all compatible with your camera.
- With a 4GB card you will get 1 hour of video.



Recording Video

- Once your batteries and memory card have been inserted, turn on your Micro camera by pushing (but not holding) the **START/STOP** button. You will hear a beep sound and see the green LED, quickly followed by the red.
- That's it! You have begun shooting video!
- To stop filming, push and hold down the **START/STOP** button again.
- You will hear a double beep sound and the red LED will turn off.
- When in video mode, the Tachyon Micro will record superior-quality VGA video. The Micro HD will record in 720p HD.
- After you have been recording for 30 minutes, your camera will pause for five seconds to save your file to your memory card. But don't worry; it will automatically start up again after those five seconds.
- You will be able to edit your video with most common editing programs. Always try to edit and save your videos at the best resolution that you can (but not necessarily higher than the original file). Then, when you upload to a video-sharing site, your videos will look their best.
- A 4GB Micro Memory card will hold just over one hour of video. Larger cards will hold multiples of that amount.



Video - Photo / Unlock - Lock

- You may change recording modes from Video to Photo (Time-Lapse) by sliding the switch on the left to the desired position (camera icon).
- To lock the camera so that it cannot shut off due to extreme water pressure, or by the user accidentally pressing the button, slide the right switch to the Lock position (lock icon). See **Waterproofing** below for more details.
- If you are having video playback problems when connected to your TV, please **see below** for how to use the **Unlock - Lock** to switch TV playback modes.



Time-Lapse Photos

- To switch from Video mode to Time Lapse Photo mode, stop any current video recording and then slide the left switch from Video to Photo.

- When you press the START/STOP button you will now hear a beep sound and see the LED flashing red and green. You are now capturing one .JPG photo every two seconds.

- To return to video mode, press and hold the START/STOP button until you hear a double beep and the LED turns off. Then slide the switch back to Video.



Setting Time & Date (Only for Micros delivered in 2011)

To set your camera's time and date you will need to follow these simple steps:

- First, record a short video with your camera and then turn it off.
- Then, connect your camera to your computer with the USB cable.
- Turn on your camera and you will soon see a pop-up window. (Top Right). Notice the file "DATETIME.bat"
- Double-Click "DATETIME.bat"
- This will create a file called "DateTime.dat".
- Now, press and release the button on your camera. This will sync the Date/Time of your computer with your camera. You will hear a beep when this is done.
- The open window will now close.
- Press and hold the button to turn off your camera.
- Now unplug your USB cable and use your camera as usual. Files recorded will now be marked with the correct date and time.
- **Note:** If your batteries are taken out of your camera for more than a few minutes, this setting will be lost and you will need to repeat it.

Name	Date modified	Type	Size
DCIM	1/1/2010 12:00 AM	File folder	
AUTORUN	1/1/2010 12:00 AM	Setup Information	1 KB
DATETIME	1/1/2010 12:00 AM	Windows Batch File	1 KB

Name	Date modified	Type	Size
DCIM	1/1/2010 12:00 AM	File folder	
AUTORUN	1/1/2010 12:00 AM	Setup Information	1 KB
DATETIME	1/1/2010 12:00 AM	Windows Batch File	1 KB
DateTime.dat	2/2/2011 12:15 AM	DAT File	1 KB

Mounting

The Tachyon Micro HD comes with one reversible Universal Mount that allows you to securely mount your camera on the top or on either side of your helmet.

Your Micro HD will easily snap in and out of the Universal Mount, which itself will easily slip over the strap of your goggles, or on to the top or either side of your helmet.

We also recommend, for secure and easy mounting, **3M™ Dual-Lock™ Fastening Strips**. You will get one 6-inch strip in your box. These are similar to Velcro but much stronger.

When filming in extreme situations, it is important to further tether your camera to the mount that you are using. This will ensure that your camera is not lost in water, snow, or rugged terrain when you fall or hit your camera. The rear door of your camera is designed to allow fishing line to be passed through the top, near the latch, so when the door is locked shut your camera will be securely attached to whatever you tie it to.

3M™ Dual-Lock™ is a trademark of 3M Company in the United States and/or other countries.



Sound Recording

For waterproofing reasons, the microphone of the Tachyon Micro HD is sealed inside the case. This ensures that your camera will function well in extreme situations. But your sound-recording quality will be quite a bit lower than on a camera that is not designed to be waterproof.

Shock Resistance

Tachyon, Inc. has patented a shock-resistance system that keeps your batteries in place and connected in event of severe jarring. Disconnected batteries would result in the shut down of the camera and the loss or corruption of your video files.

Be sure that your batteries are inserted correctly into the shock-proof battery cartridge, and that your cartridge is inserted correctly into the camera, so that the red latch snaps securely over the back of the cartridge.

For additional shock resistance, the Micro has a locking switch to the right of the red latch. When you switch it to the left, the cartridge will be locked into your camera and you will be unable to remove it even when you depress the red latch.

To remove your battery cartridge, you must move the locking switch back to the right, and then depress the red latch.



Waterproofing & Dive Lock

The Tachyon Micro HD makes use of its patented Dive Lock feature to work under water to a depth of 100 feet (30 Meters).

To ensure waterproofing, be sure to keep the rubber seal around the rear door clean and the door closed properly.

The Dive Lock prevents water pressure from shutting off your camera in the deep water. Lock your camera by opening the back door and sliding the locking switch to the Right. Close and lock the door and then start recording as normal. You (and high water pressure) will now be unable to stop the recording.

To stop recording, you must surface, dry your camera, open the door, slide the switch back to the left, and then push the **ON/OFF** button until the camera stops.



Connecting to Your Computer

The Tachyon Micro HD comes with a USB cable.

To open your files from your camera, first set the switches on the back of your camera to **Photo** and **Lock**.

Then plug the small end into the jack inside the back door of your camera and the large end into your computer's USB port. (The jack on your camera is used for both the TV and the USB cables).

Now turn on your camera. You should hear a beep and see a window popping up asking you to view your files.

We suggest that you save your files to your computer as soon as possible after recording.

But if your computer is able to read Micro Memorycards, we highly recommend removing the card from your Tachyon Micro HD, inserting it into its adaptor, and then plugging it into your computer. Then you will be able to move your files from your camera onto your computer.



This will not only save the batteries of your cameras, but video files watched directly from the memory card may not run as smoothly as files that have been copied to your computer's hard drive.

Managing Files

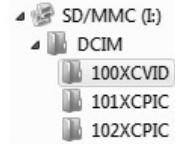
When your Micro USB cable or memory card is inserted into your adaptor/card reader/computer, you should see the following in your file manager.

Under the DCIM folder you will see one video folder (100XCVID) for all of the videos that you have taken on that card.

And you will see a separate picture folder (101,102XCPIC) for each "session" of photo taking. That means that every time you start and stop taking your time lapse photos, a new folder will be created. This will help you to keep things organized.

You may copy, paste and delete these files just as you would do with any other file on your computer.

We urge you to copy your files to the computer as quickly as possible, to free up space for more files and to be sure that you don't lose any great video or photos.



Computer Playback

- For playing back raw, unedited video files, Tachyon highly recommends the **VLC media player**. It is possible that some video files recorded by your cameras will not play back clearly or smoothly on some other media players.

- It can be downloaded for free [here](#).

Connecting to Your TV

To connect the Micro to your TV, insert the TV cable into the back of your camera, and then plug in the yellow and white leads into the back of your TV (to the corresponding color plugs)

See the next section for selecting your TV system.



NTSC & PAL

NTSC and PAL are two different TV systems. The videos that you take with the Tachyon Micro HD are compatible with both.

You can switch between the two systems using the Lock and Unlock switch on the back of your camera. When connected to your TV and turning on the camera when **unlocked**, you will be in NTSC mode. Turning it on when **locked**, you will be in PAL mode.

Your camera ships with the switch set to Unlock. Therefore the default mode is NTSC system. So if you are in an PAL country, and your TV playback is in black and white or with a wavy image, you will need to switch.

With the first batch of production for the Micro, these switches were reversed. It was Unlock for PAL and Lock for NTSC. So if you purchased your camera before February, 2010, please try the opposite of these instructions!



TV Playback

Playback:

When the camera is on with the TV cable connecting it to the TV:

Left switch - changes the file type (AVI or JPEG) displayed.

Right switch - changes the direction of play.

Next (Lock) Previous (Unlock).

START/STOP button

Press to play .AVI (video) file.

Press and hold to see Next / Previous video.

Please note that older analogue TV systems may have problems viewing XC Micro files when attached to the camera. Newer digital systems will all work fine.



Storage

As with most electronic products, it is better if you take the batteries out if you don't plan on using them. Leaking or expanding batteries could cause damage to your connections, or even become jammed inside your camera.

It is also a good idea to remove the batteries from the cartridge and the cartridge from the camera and leave the back door open. This will relieve pressure on the springs, contacts, and rubber seal.

If you do leave the back door open, it is probably a good idea to keep the camera in a Ziploc® bag, to prevent dust or dirt from getting inside.

If using your camera in salt water, be sure to rinse it in fresh water after use. The salt can cause rusting of metal parts. Also be sure to clean any sand from around the seals, as this could allow water to enter the workings.

Store your Tachyon XC in a cool dry place.

Operating Systems

Tachyon Micro cameras are compatible with Windows® XP/Vista/7 and Apple Mac OS® X

Apple MAC OS® X is a trademark of Apple Inc., registered in the U.S. and other countries.

Windows® XP/Vista/7 is a registered trademark of Microsoft Corporation in the United States and/or other countries.

Battery Details

The Tachyon Micro HD requires good-quality batteries to support its high-capacity functions, so low-cost carbon-zinc batteries are not recommended. For best results, use **AAA Energizer® Ultimate Lithium Batteries**. In cold weather, use **ONLY** this kind!

You will get up to 4 hours of life with **Ultimate Lithium Batteries**. Other types of batteries will give you less recording time.

In cold weather, use ONLY this kind of battery!

- **DO NOT** mix new and used or different kinds of batteries.
- **DO NOT** use rechargeable batteries.
- **DO NOT** try to force your batteries into the Tachyon XC if they are not going in easily. You may have inserted them incorrectly, or you may be using batteries that are too thick.
- **ALWAYS** put the positive pole of the batteries into the cartridge first, before snapping in the negative side. This will ensure a firm connection.

AAA-Size rechargeable batteries must not be used for several reasons:

1. They are larger than normal AAA batteries and will not fit well into our shockproof battery cartridge, which was designed to be a tight fit to prevent loose batteries from losing connection and losing your files.
2. When they run out of power, they run out suddenly. This will also cause you to lose your files.
3. They are no good in the cold, and our users take a lot of cold-weather video.

Over the life of your camera battery technology may improve, so you should make use of the most advanced (non-rechargeable) batteries available.

Note: There is no low-power indicator on the Micro, so you won't be able to tell when your batteries are becoming low. But before your camera shuts off, the file that you are recording will be saved, so that you won't lose any important footage. Always carry extra batteries with you when you go, just in case you have misjudged the power remaining in your camera.



Energizer® is a registered trademark of Eveready Battery Company, Inc. in the United States and/or other countries.
Duracell® is a registered trademark of P. R. Mallory & Co. Inc. in the United States and/or other countries.

Technical Support

For technical support, please contact us at support@tachyoninc.com

Video Shooting Tips

Although the Tachyon Micro cameras perform well indoors, underwater, and in low-light situations, it is specifically tuned for shooting in sunlight. So for the best looking videos, try to shoot your action when the light is good.

Make sure that your lens is clean. One small spot can ruin a great video. Don't be afraid to pour water over your camera to clean it. Just be sure that the rear door is securely closed.

Disclaimer

Tachyon, Inc. will not under any circumstances be responsible for injuries or property damage incurred during the use of any of our products.

Video Publishing Guide

Videos taken with your Tachyon Micro or Micro HD are perfect for uploading to **YouTube®**, or other video sharing sites.

For best results, edit your videos first, cutting out all of the uninteresting bits. Adding music really helps to make a great video. Always edit and save your videos to at least the same video resolution at which they were recorded. Don't downgrade your video quality.

See this [YouTube page](#) for optimizing your video uploads.

Be sure to mention Tachyon Micro or Tachyon Micro HD and Helmet Camera in your title or tags so that other Tachyon users can find and comment on your videos.

And be sure to see our website for video samples and for further tips and tricks on video recording and editing.

Video Statistics

The Micro XC uses Micro memory cards. From 4GB up to 64GB.

With a 4GB card you will get 1 hour of video, and over 100,000 still photos.

With larger cards, you can double, quadruple and octuple these numbers.

The Micro Memory cards pictured on our website and in this manual may be replaced by similar or superior cards, depending on supply.

Warranty

Warranty

Tachyon products are covered by a one year limited warranty from the date of purchase from Tachyon, Inc. The warranty covers only defects in workmanship and materials. It does not apply to products which have been damaged due to unreasonable use or by intention nor does it cover dissatisfaction with the product.

Tachyon, Inc.'s warranty policy only covers products purchased directly from Tachyon Inc. or from our authorized resellers. If you purchased the product from our website you will have been given a purchase number with your confirmation email. Please quote this number, along with your name and email address, in your dealings with us.

Customers outside of the United States who have purchased items from authorized resellers or from online resellers such as Amazon.com, and have problems that need to be addressed, please contact Tachyon first to see if we can help you. We are more likely to be your quickest solution. If our support staff cannot solve your problem by email, we will further advise you on how to proceed to remedy the problem. This warranty does not cover items purchased from a third party that is not authorized by Tachyon. It is not transferable to online purchases from sites such as eBay or Craigslist.

- (a) Tachyon, Inc.'s return policy covers only defective products. All sales are final. Monetary refunds will not be issued for any reason.
- (b) Tachyon Inc will only accept returns of defective product within one year of purchase, as stated in the warranty above.
- (c) All products will be exchanged for new products, and not for monetary returns.
- (d) Before products are exchanged or returned, customer must contact Tachyon, Inc. ,via email or phone. Tachyon, Inc. will help troubleshoot the problem to avoid the unnecessary returns. If it is determined that the camera is defective, Tachyon, Inc. will authorize the return, in writing, via email. Tachyon, Inc. may request sample video clips to be sent to support@tachyoninc.com in order to ascertain the problem/defect.
- (e) In case of return, the customer will pay for one-way shipping to Tachyon, Inc. There is no need to use any express or overnight service. Tachyon, Inc. will pay the shipping costs for the exchange product.

Tachyon, Inc. shall only be liable for:

- (a) the replacement of a defective product with a new product.
- Tachyon, Inc. shall NOT be liable for:
- (a) injury to persons, or damage to property or consequential losses arising from the use of the product.
 - (b) a product that has been tampered with, altered, or been serviced by an unauthorized agent.
 - (c) damage due to the use of mounting accessories that were not included with the product or those not sold as optional accessories on our website.
 - (d) loss of video or still picture files for any reason.
- In the event that goods are undelivered to recipient and are returned to Tachyon Inc by post, for any of, but not limited to, the following reasons:
- a) the recipient entered his/her address on Tachyon's order form incorrectly or incompletely,
 - b) the recipient refused the package,
 - c) the recipient did not pick up the package in a timely manner from his/her local post office, customs office, or any other location in which the package was being held, the recipient will be responsible for covering the shipping costs needed to resend their goods to them. The original shipping costs cannot be recovered by Tachyon Inc and will be considered payment for a service already rendered.
- In the event that the recipient refuses to have the goods resent and the goods are still in like new condition, Tachyon Inc will not refund shipping costs and will charge a 15% restocking fee.

Tachyon, Inc. shall NOT be liable for:

- (a) injury to persons, or damage to property or consequential losses arising from the use of the product.
- (b) a product that has been tampered with, altered, or been serviced by an unauthorized agent.
- (c) damage due to the use of mounting accessories that were not included with the product or those not sold as optional accessories on our website.
- (d) loss of video or still picture files for any reason.

In the event that goods are undelivered to recipient and are returned to Tachyon Inc by post, for any of, but not limited to, the following reasons:

- a) the recipient entered his/her address on Tachyon's order form incorrectly or incompletely,
- b) the recipient refused the package,
- c) the recipient did not pick up the package in a timely manner from his/her local post office, customs office, or any other location in which the package was being held,

the recipient will be responsible for covering the shipping costs needed to resend their goods to them. The original shipping costs cannot be recovered by Tachyon Inc and will be considered payment for a service already rendered.

In the event that the recipient refuses to have the goods resent and the goods are still in like new condition, Tachyon Inc will not refund shipping costs and will charge a 15% restocking fee.

