



Preface

Thanks for purchasing HD1080P mini sport digital camera. It's a fashionable, exquisite and waterproof device which brings you a convenient, flexible and enjoyable life.

The mini sports digital camera is high definition and anti-shock, mini and delicate with wonderful waterproof humanity design. It can help you to gain omni-directional video/image under all kinds of sports conditions and allow you to dive underwater up to 20 meters, but the price is only as a normal waterproof housing for sport digital camera.

Disclaimer

While every effort has been made to ensure that the information contained in the guide is accurate and complete, no liability can be accepted for any errors or omissions. reserves the right to change the specifications of the hardware and software described herein at any time without prior notice.

declines all responsibilities for damages due to improper use of this product, failure to adhere to the instructions given in this manual, or modifications to the sports digital camera.

The Mini Sport Digital Camera is a sophisticated electronic device and should be supervised by an adult at all times. This product should not be used by children under 13 years. This product is not a toy. The inserting of memory cards, USB cable, and battery must be performed by an adult 18 years or older who has read and understands this manual. An adult must always check all water tight compartments prior to each use.

CONTENTS

1.0 Get to Know Your Mini Sport Digital Camera ----Sport Series

1.1 Features	PAGE-05
1.2 Specifications	PAGE-05
1.3 System Requirements	PAGE-06

2.0 Functional Parts

2.1 Included Parts and Accessories	PAGE-06
2.2 Part Names	PAGE-08

3.0 Set Up

3.1 Power ON/OFF	PAGE-09
3.2 Auto Power OFF and PC-Charging	PAGE-10
3.3 Mode Switch	PAGE-10
3.4 TV out Setup	PAGE-11
3.5 PC Set up Time/Date	PAGE-13
3.6 Disassemble and Assemble	PAGE-14
3.7 Caution Sound	PAGE-14

4.0 Recording Images and Videos

4.1 Recording	PAGE-14
4.2 Shooting	PAGE-14
4.3 Focusing	PAGE-15
4.4 Turn on the Fill in Light	PAGE-15
4.5 PC Camera	PAGE-15

5.0 Transferring Still Images and Videos

5.1 PC Videos/Images Transferring	PAGE-16
5.2 Play on TV	PAGE-16

6.0 Camera Test Instructions

PAGE-17

7.0 Care and Maintenance

PAGE-17

1.0 Get To Know Your Mini Sport Digital Camera ---Sport Series

1.1 Features

HD 1080P

Still Images

Video Clips

Mini /Anti-shock and Waterproof

Micro SD Card support up to 32GB

Driver free for Windows 2000/XP/Vista/7



1.2 Specifications

Image Sensor	1/2.5" 5.0 Mega Pixels CMOS sensor
Image Resolution	Still Image:2560*1920 Video:1080P(1920*1080@30fps)
Lens Aperture	F/2.4 f=3.0 mm
Lens	100 Degree Fov
Storage Medium	Micro SD/SDHC(up to 32GB)
Lens Focus	0.5 m to infinity
Date Format	Picture: JPEG, Video: AVI
Interface	USB 2.0 High Speed
Power Supply	3.7V/850MAH Li-Battery
Charger	5V/600MA
Weight	Camera: 70g, Base: 40g
Waterproof Grade	IPx8 3hrs underwater 20 meters
Dimensions	Camera: 87(L)*36(W)*34(H)mm

1.3 System Requirements

Operating System	Windows 2000/XP/VISTA/7
CPU	Pentium III or above
RAM	At least 64MB
Interface	USB port
CD	4x speed CD ROM or above

2.0 Functional Parts

2.1 Included Parts and Accessories

Please check the contents now (before use) to confirm that it is complete. Contact your dealer if anything is missing.

USER MANUAL

SPORTS DIGITAL CAMERA

USB/AV CABLE

CHARGER

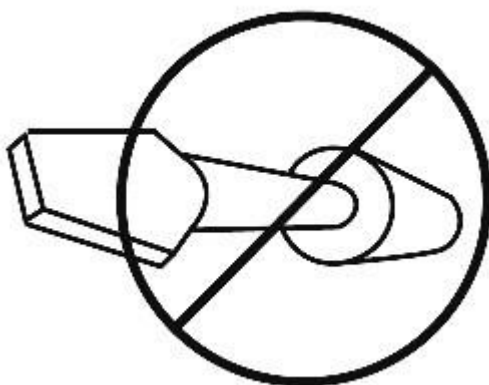
WARRANTY

BUILT IN Li-BATTERY

8 GB MICRO SD CARD

NOTE: The "MINI SPORT DIGITAL CAMERA" will be referred to as the "CAMERA" throughout this instruction manual.

WARNING: NEVER OPEN THE CAMERA BODY THAT IS FACTORY SEALED WITH SCREWS. THIS WILL VOID ANY WARRANTY. NEVER USE A SCREW DRIVER TO OPEN ANY PORTION OF THE CAMERA.



2.2 Part Names



3.0 Set Up

CAUTION: An adult 18 years or older should perform this function. Always make sure the CAMERA is completely dry before performing these steps. Set up should always take place in a clean dry space with a controlled environment. These steps should be performed indoors to avoid exposure to the elements.

3.1 Power ON/OFF

Power On: To insert a TF card into your camera, press and hold the POWER button for at least 2 seconds until the blue and red indicator light on, system starts to initialize with alert. (Vibration & Buzzing)

Power Off: Press and hold POWER button for at least 2 seconds until the blue indicator off and alert ended.

NOTE: This is HD 1080 Video format; we suggest using Speed CLASS 6 TF card, in case of any

worse shooting or abnormal operation caused.

●Attention

When starting up camera without a TF card, the blue LED indicator sprinkles quickly for notification.

3.2 Auto Power Off and PC Charging

1. When system starts, the built-in Li-battery used up, the blue indicator and red indicator will sprinkle slowly and alternately with alarm, and it will auto power-off in about 10 seconds.

2. No memory Notice for "Taking out the TF Card" and Auto Power Off: When shooting/recording, both the red indicator and blue indicator will sprinkle quickly if take the TF card out from camera or Memory is full, it will auto turn off with alarm in about ten seconds.

3. Connect camera via USB cable, 3 hours needed for charging. Green indicator lights on when charging and off when full. (Battery charger is applicable for charging also.)

3.3 Mode Switch

After starting up the camera, press POWER button continually to switch the modes circularly.

1. Video Mode: Manual video recording standby, red indicator lights on.
2. Shooting Mode: Manual shooting standby, blue indicator lights on.
3. Motion Detection Video Mode: Red and yellow indicator light on.
4. Motion Detection Image Mode: Blue and yellow indicator light on.
5. Playback Mode: When camera connects with the AV cable, it will access to TV-Out playback mode, blue and red indicators light on.

●NOTICE

>It is available when camera connected with the AV cable unless it will skip this mode.

>Press LIGHT/POWER button to view images, press MODE button to play videos.

>Press and hold the MODE button for at least 2 seconds to enter/exit to select Menu, press LIGHT/POWER button to select, press MODE button to save.

3.4 TV out Setup

Please refer to TV-OUT instructions, connect the camera with AV cable, press and hold MODE button for at least 2 seconds to access to setup menu. Functions are as follow:

- >Press MODE button to setup menu.
- >Press and hold MODE button for at least 2 seconds to save and exit.
- >Press LIGHT/POWER button to modify parameters.
- >Press MODE button to save setup.

1. Time/Date

Press MODE button to access to setup, press LIGHT/POWER button to modify parameters, press MODE button save and exit.

2. Caution Sound: Shake/Sound, Shake, Sound, Off.

3. Language

English/Deutsch/Frangais/Espanol/Italiano/Portugues/繁体中文/简体中文/日本語

4. Frequency: 50Hz/60Hz

NOTICE: This setup is for light frequency, please set it accordant with relevant frequency, in order to eliminate blinking of shooting under daylight lamp.

5. TV Mode: NTSC/PAL

NOTICE: Wrong color will occur when using the incorrect format, please match the correct format

for video output.

6. Default Setting: Cancel/OK

NOTICE: Press MODE button to select OK/Cancel to "return setting to defaults". The system time will not be reset.

7. Quality: Super Fine/Fine/Normal

Setup for pixel: HD 1080P is the default setup. The max pixel is 1080P. Higher pixel for better quality of shooting and recording, and memory consumption increases as well.

NOTICE: Recommend to use CLASS 6 TF Card or above in order to avoid worse shooting and camera irregularly working.

8. Video Time: 10Seconds/1Minute/5Minutes/10Minutes/Off

NOTICE: Setup for single clip time for recording, each clip recorded will switch to the next clip automatically. OFF mode is for free recording.

9. Auto Delete: OFF/ON

NOTICE: When TF card is out of memory, under auto delete function, the videos and pictures will be deleted automatically and memory capacity will be valid for new shooting and recording; but it will auto power off when auto delete function is closed.

10. Date Stamp: ON/OFF

Set up for timing stamp on images/videos.

11. Version

Software version information

3.5 PC Setup Time/Date

Please make the following set up if the time is in correct on images/videos.

Method one: Use TV as a monitor. Please refer to TV out Setup3.5.

Method two: Use a computer.

>Connect to computer via USB cable

>Click into removable disc.

>Create an TXT file SETTIME.TXT in root directory

>Access SETTIME.TXT file, type in the data from the second line, such as :

>The format will be Year (YYYY), Month (MM), Day (DD), Hour (HH), and Minute (MM).

Second (SS) V

Please refer to the time format:

E.g.: 18:00 06th March 2012

Video with time watermark: 2012 03 06 18 00 00 Y

Video without time watermark: 2012 03 06 18 00 00 N

A space is needed between Year (YYYY), Month (MM), Day (DD), Hour (HH), and Minute (MM).

Also between Watermark, Y: video with watermark, N: video without watermark.

It is not applicable to launch on the recorded video clips.

>Save & Exit

> Reboot the system, system time will be renewed.

●NOTICE

In case battery runs out, system time will be reset by default.

3.6 Disassemble and Assemble

> Disassemble: Press the lock button at the bottom of the camera, pull towards right to take it out

from the camera base.

>Assemble: Push camera protruding part from left towards right by matching the groove, in order to fix camera to a bicycle. And applicable as driving recorder when use with base part.

3.7 Caution Sound

Caution Sound: Shake/Sound, Shake, Sound, Off. Off for setting caution sound. Please refer to the system setup.

4.0 Recording Images and Videos

4.1 Recording

Press MODE button to record, red indicator twinkles slowly. Press MODE button again, red indicator lights on, recording saved.

Motion Detection Video Mode

Lens auto detects active object and starts capturing accordant with pre-set video time.

Next video starts when previous video clip fully saved for 10 seconds capture, the parameters can be set as 1 Minute, 5 Minutes, 10 Minutes and OFF.

>When lacking of storage memory (When Auto Delete is OFF) and when out of battery or without operation for 180 seconds, it will auto power off

4.2 Shooting

Press MODE button to shoot.

●NOTICE

>The red indicator sprinkles when shooting.

>When lacking of storage memory (When Auto Delete is OFF) and when out of battery or without operation for 180 seconds, it will auto power off.

>Motion Detection Shooting Mode

Lens auto detect active object and starts capturing accordant with pre-set timing.

4.3 Focusing

>Best Focusing Distance: 0.5 to 3 meters in the front of camera.

4.4 Turn on the fill in light

8 highlighted LED fill lights built in, press LIGHT button to turn on/off 4 or 8 fill in lights.

4.5 PC Camera

Computers come with the driver.

1. Please connect this camera via USB cable
2. Camera will be detected and installed.
3. After installation, click in My COMPUTER, a new video icon will appear for launching.
4. Click EXIT option to quit.

Function

> Camera is applicable for 3rd party software and recording files are also savable i.e.Amcap. (Video capture software)

- > Turn on the fill in light for better images shooting.
- > Green indicator lights on when charging, and off when full.

5.0 Transferring Still Images and Videos

CAUTION: ALWAYS FOLLOW THE CARE AND MAINTENANCE INSTRUCTIONS FOR RINSING IN FRESH WATER AND DRYING THE CAMERA PRIOR TO OPENING THE MEMORY COMPARTMENT.

The CAMERA has two ways to transfer your image and video files to a computer. The CAMERA comes with a USB cable to connect your CAMERA directly to a computer. You may also choose to purchase and use a commercially sold Micro SD Card to store and transfer images and videos that were taken with the CAMERA.

5.1 PC Videos/images transferring

- > Connect the camera to PC via USB cable
- > Click into MY COMPUTER and access to directory DCIM/100DSCIM, videos are available for copy.
- > Please copy the video clips to your computer for better playing.
- **NOTICE:**
 - > Press LIGHT button for lightening.
 - > Under this mode, green indicator lights on when charging, and off when full.

5.2 Play on TV

- > Connect Video Camera with AV cable (USB port) to TV with (Yellow/White port).
 - > Press MODE button to play
 - > Video Playback
 1. Manual Playback: Press LIGHT/POWER button to browse, press MODE button to play, please adjust the TV volume to get the proper audio.
 2. Auto Play: Press MODE button to play. Images preview within 5 seconds and auto playing for videos.
 3. Pause: Press MODE button to pause or continue.
 4. Exit: Press and hold MODE button for at least 2 seconds to exit.
- NOTICE: It takes few seconds or longer for large size video playing.

6.0 Camera Test Instruction

Taking test images and video:

Before using this product and before capturing important digital images and videos, be sure to first record a test image and test video to confirm that your camera is set up and ready to go. It is best to double check that the camera installation firmness in order to avoid bouncy videos & blurry images. Shenzhen TAT Electronics Co., Ltd declines any claim for compensation for recorded contents etc. in case of recording failure due to a camera or card flaw.

7.0 Care and Maintenance

When finish using the CAMERA, always clean and wipe away any dust, water, sand, salt, or other debris before opening or storing. Always clean with FRESH WATER.

1. Check the cap for water tight closure before exposing to water.
2. Always rinse the CAMERA in FRESH WATER to remove any sand, salt or other debris. Do not use hot water or high pressure which may damage camera.
3. Use a soft dry cloth to thoroughly remove all water. Carefully press around the seams of all compartments to absorb any water left in the cracks.
4. Once the camera is completely dry on the outside, check to make sure that you are also thoroughly dry including your hands, hair, and clothes before opening any compartments. This precaution is necessary so that you will not drip water into or onto the camera.
5. Gently open each compartment. If you find any moisture, sand or debris caught inside the threads of the outer compartment wall, immediately remove them with a cloth or cotton swab.
6. If any moisture or debris has accumulated inside a compartment use a cotton swab to remove it, being careful not to touch the CAMERA electronic components.
7. Before closing any compartment, replace any loose parts. Then inspect and clean the inside of the cap prior to positioning over the open compartment.
8. Please screw waterproof cap after disassembling it in case of leakage. Please screw the camera housing tightly for waterproofing. Please dry completely before using it. Contact your retailer if it doesn't work.
9. Store the CAMERA in a dry place away from direct sunlight.
10. Keep the CAMERA at normal room temperatures that do not fluctuate widely. Do not store next to a heater or an air conditioning unit. The extreme temperatures may damage the CAMERA. Exposure to extreme temperatures or temperature fluctuations may cause condensation inside the CAMERA which may damage the device. If you notice condensation, do not use the CAMERA. Set in a dry area with room temperature until the condensation disappears. Run a camera test to check its function prior to regular use. Do not use a hair dryer.
11. HUMID CLIMATE - Make sure to only open the camera briefly in Humid Climate as moisture in the air may be trapped in the inner compartments if the camera caps are left opened for a period of time. This will result in condensation on the LENS when the CAMERA is submerged in warm water.
12. Safe Operating Temperature: 0 to 40°C (32 to 104°F) / Safe Storage Temperature: -20 to 60°C (-4 to 140°F) / Safe Operating Humidity: 30 to 90% (when no condensation is visible)/ Safe Storage Humidity 10 to 90% (when no condensation is visible).



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