

# 2013



# Mobile Surveillance

<http://www.tsict.com>

## TSMC3101

### VGA 120° Wide Angle DVR with 2.5-inch Panel

VGA 120° wide angle DVR with 2.5-inch panel, 6 IR LEDs, seamless loop recording



Model	TSMC3101
<b>Memory Card</b>	SD Card (the capacity from 2 to 32 GB)
<b>IR Led</b>	6 pieces
<b>Interface</b>	USB 2.0 and AV-out
<b>Supported Language</b>	English/Chinese/Portuguese/Japanese/Russian/Korean
<b>Power Supply Port</b>	6 V DC
<b>Battery</b>	Rechargeable Li-ion battery or car charger
<b>Storage Temperature</b>	-20 °C to 80 °C (-4 °F to 176 °F)
<b>Operating Temperature</b>	-10 °C to 65 °C (14 °F to 149 °F)
<b>Operating Humidity</b>	15 % to 60 % RH
<b>Packing Weight</b>	0.45 kg (0.99 lb)
<b>Net Weight</b>	10 kg/ctn (22.05 lb/ctn)
<b>Gross Weight</b>	11 kg/ctn (24.25 lb/ctn)
<b>Accessories</b>	<ul style="list-style-type: none"> <li>• USB Cable</li> <li>• Li-ion battery</li> <li>• Car Charger</li> <li>• In-car arm stand</li> <li>• User manuel</li> </ul>

\*Design and specifications are subject to change without prior notice.

## Features

- Image sensor: 1/4-inch color CMOS WXGA HD sensor, 120°
- Video format VGA: 640 × 480 pixels at 30 frames per second
- Supports 32 GB SD/MMC card
- Recording during recharging, loop recording
- Recording automatically after the power on
- With 6 IR LEDs

## Tech Specs

Model	TSMC3101
<b>Resolution</b>	VGA 640 × 390 pixels
<b>Photo Resolution</b>	Not applicable
<b>Frame Rate</b>	30 frames per second
<b>Lens</b>	VGA
<b>Frequency</b>	50 Hz/60 Hz
<b>TV Mode</b>	PAL/NTSC
<b>Viewing Angle</b>	120°
<b>Video Format</b>	MJPEG
<b>Photo Format</b>	Not applicable
<b>Time Synchronozation</b>	Support (Y/M/D/H/M)
<b>G Sensor</b>	Not applicable
<b>Motion Detection</b>	Not applicable
<b>Automatically overwrite function</b>	Support
<b>Self Timer</b>	Not applicable
<b>Display</b>	2.5-inch TFT colorful LCD
<b>Microphone</b>	Not applicable
<b>Speaker</b>	Not applicable

## TSMC3305

### 720p 120° Wide Angle DVR with 1.5-inch Panel

720p 120° wide angle DVR with 1.5-inch panel



Model	TSMC3305
<b>Speaker</b>	Built in (external)
<b>Memory Card</b>	TF card (512 MB to 32 GB)
<b>IR Led</b>	Not applicable
<b>Interface</b>	USB 2.0
<b>Supported Language</b>	Russian/Japanese/French/Italian/German/Spanish/English/Traditional Chinese/Simplified Chinese/Korean
<b>Power Supply Port</b>	5 V DC, 500 mA
<b>Battery</b>	Inbuilt (180 mAh lithium polymer batteries)
<b>Storage Temperature</b>	-20 °C to 80 °C (-4 °F to 176 °F)
<b>Operating Temperature</b>	-10 °C to 65 °C (14 °F to 149 °F)
<b>Operating Humidity</b>	15 % to 60 % RH
<b>Packing Weight</b>	0.42 kg (0.93 lb)
<b>Net Weight</b>	16.8 kg/ctn (37.04 lb/ctn)
<b>Gross Weight</b>	18 kg/ctn (39.68 lb/ctn)
<b>Accessories</b>	<ul style="list-style-type: none"> <li>• In-car charging cable</li> <li>• Charger (optional)</li> <li>• In-car arm stand</li> <li>• USB cable</li> <li>• User manual</li> <li>• CD (optional)</li> </ul>

\*Design and specifications are subject to change without prior notice.

## Features

- Viewing angle of lens: 120°
- Camera resolution: 4032 × 3024 pixels
- 1.5-inch display
- Video quality: HD (1280 × 720) S/30 frames per second
- Night vision supported
- TF card
- Built-in microphone/external microphone/speaker
- Chatting video: Network CMOS

## Tech Specs

Model	TSMC3305
<b>Resolution</b>	1280 × 720 pixels
<b>Photo Resolution</b>	4032 × 3024 pixels
<b>Frame Rate</b>	30 frames per second
<b>Lens</b>	720p
<b>Frequency</b>	50 Hz/60 Hz
<b>TV Mode</b>	PAL/NTSC
<b>Viewing Angle</b>	120°
<b>Video Format</b>	AVI
<b>Photo Format</b>	JPG
<b>Time</b>	Support (Y/M/D/H/M)
<b>Synchoursonization</b>	
<b>G Sensor</b>	Support
<b>Motion Detection</b>	Support
<b>Automatically overwrite function</b>	Support
<b>Self Timer</b>	2/10/12 second
<b>Display</b>	1.5-inch TFT colorful LCD
<b>Microphone</b>	Built in (external)

## TSMC3307

### 720p 120° Wide Angle DVR with 2-inch Panel

720p 120° wide angle DVR with 2-inch panel, 4 IR LEDs, gravity sensor and motion detection



Model	TSMC3307
<b>Display</b>	2.0-inch TFT Colorful LCD
<b>Microphone</b>	Built in
<b>Speaker</b>	Built in
<b>Memory Card</b>	microSD card, TF memory card 512 MB to 32 GB
<b>IR Led</b>	Not applicable
<b>Interface</b>	USB 2.0
<b>Supported Language</b>	Russian/English/Chinese
<b>Power Supply Port</b>	5 V DC, 500 mA
<b>Battery</b>	Inbuilt (Polymer 800 mAH lithium battery)
<b>Storage Temperature</b>	-20 °C to 80 °C (-4 °F to 176 °F)
<b>Operating Temperature</b>	-10 °C to 65 °C (14 °F to 149 °F)
<b>Operating Humidity</b>	15 % to 60 % RH
<b>Packing Weight</b>	0.32 kg (0.71 lb)
<b>Net Weight</b>	6.5 kg/ctn (14.33 lb)
<b>Gross Weight</b>	7.5 kg/ctn (16.53 lb)
<b>Accessories</b>	<ul style="list-style-type: none"> <li>• In-car charging cable</li> <li>• Charger (optional)</li> <li>• In-car arm stand</li> <li>• USB cable</li> <li>• User manual</li> <li>• CD (optional)</li> </ul>

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## Features

- Viewing Angle of Lens: 130°
- Camera Resolution: 1280 × 720 pixels
- 2.0-inch display
- Video Quality : H.264 1280 × 720 at 30 frames per second
- 4 pieces IR LED
- Bulit-in gravity sensor and motion detection

## Tech Specs

Model	TSMC3307
<b>Resolution</b>	1280 × 720 pixels
<b>Photo Resolution</b>	2048 × 1536 pixels
<b>Frame Rate</b>	30 frames per second
<b>Lens</b>	<ul style="list-style-type: none"> <li>• Front lens: H.264 1280 × 720 at 30 frames per second</li> <li>• Back lens: H.264 720 × 576 at 30 frames per second</li> </ul>
<b>Frequency</b>	50 Hz/60 Hz
<b>TV Mode</b>	PAL/NTSC
<b>Viewing Angle</b>	120°
<b>Video Format</b>	AVI
<b>Photo Format</b>	JPEG
<b>Time Synchronozation</b>	Support (Y/M/D/H/M)
<b>G Sensor</b>	Support (triaxial thoursee-dimensional collision detection)
<b>Motion Detection</b>	Support
<b>Automatically overwrite function</b>	Support
<b>Self Timer</b>	2/10/12 s

## TSMC3402

### 1.3-megapixel Car Portable DVR with 2.5-inch Panel

1.3-megapixel car portable DVR with 2.5-inch panel, dual LED light and microphone



Model	TSMC3402
<b>Video Format</b>	AVI
<b>Photo Format</b>	JPG
<b>Time Synchronization</b>	Support (Y/M/D/H/M)
<b>G Sensor</b>	Not applicable
<b>Motion Detection</b>	Not applicable
<b>Automatically overwrite function</b>	Support
<b>Self Timer</b>	2/10/12 second
<b>Display</b>	2.5-inch TFT colorful LCD
<b>Microphone</b>	Built in
<b>Speaker</b>	Built in
<b>Memory Card</b>	microSD (the capacity from 2 to 32 GB)
<b>IR Led</b>	2 pieces
<b>Interface</b>	USB 2.0
<b>Supported Language</b>	English/Traditional Chinese/Simplified Chinese/Japanese/Russian
<b>Power Supply Port</b>	5 V DC, 500 mA
<b>Battery</b>	Inbuilt (600 mAh)
<b>Storage Temperature</b>	-20 °C to 80 °C (-4 °F to 176 °F)
<b>Operating Temperature</b>	-10 °C to 65 °C (14 °F to 149 °F)
<b>Operating Humidity</b>	15 % to 60 % RH
<b>Packing Weight</b>	0.48 kg (1.06 lb)
<b>Net Weight</b>	11.5 kg/ctn (25.35 lb)
<b>Gross Weight</b>	12.5 kg/ctn (27.56 lb)
<b>Accessories</b>	<ul style="list-style-type: none"> <li>• In-car charging cable</li> <li>• Charger (optional)</li> <li>• In-car arm stand</li> <li>• USB cable</li> <li>• User manual</li> <li>• CD (optional)</li> </ul>

### Features

- Very portable, can rotate 180°, 120° high resolution A+ wide angle lens
- 270° swivel LCD display, convenient to take video/photo in different situations
- Built-in 1/4-inch low noise sensor, can capture clear images in low light environment
- Day/night selectable modes
- Auto sensitivity control, high performance dual LED light
- Built-in simultaneous charging and recording mode
- Built-in microphone/speaker
- Supports high capacity 32 GB microSD card
- Can catch amazing image through the LCD display when taking self-portrait
- Anti-shake mode
- Continuous recording mode, auto delete when recording new file
- Auto power on when starting car, auto power off when car is off
- With delayed turn on function
- Can still record while LCD is off

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### Tech Specs

Model	TSMC3402
<b>Resolution</b>	VGA/D1/HD (1280 × 960 pixels)
<b>Photo Resolution</b>	2592 × 1944 pixels
<b>Frame Rate</b>	30 frames per second
<b>Lens</b>	HD
<b>Frequency</b>	50 Hz/60 Hz
<b>TV Mode</b>	PAL/NTSC
<b>Viewing Angle</b>	120°

## TSMC3508

### 2-megapixel Dual Lens 120° Wide Angle DVR with 2.7-inch Panel

2-megapixel dual lens 120° wide angle DVR with 2.7-inch panel, 4 IR LEDs



Model	TSMC3508
<b>Synhoursonization</b>	
<b>G Sensor</b>	Not applicable
<b>Motion Detection</b>	Not applicable
<b>Automatically overwrite function</b>	Support
<b>Self Timer</b>	2/10/12 s
<b>Display</b>	2.7-inch TFT Colorful LCD
<b>Microphone</b>	Built in
<b>Speaker</b>	Built in
<b>Memory Card</b>	microSDHC card (up to 64 GB)
<b>IR Led</b>	4 pieces
<b>Interface</b>	USB 2.0, AV (CVBS) port
<b>Supported Language</b>	Russian/Japanese/French/Italian/German/Spanish/English/Traditional Chinese/Simplified Chinese/Korean
<b>Power Supply Port</b>	3.7 V DC
<b>Battery</b>	Rechargeable Li-ion battery or car charger
<b>Storage Temperature</b>	-20 °C to 80 °C (-4 °F to 176 °F)
<b>Operating Temperature</b>	-10 °C to 65 °C (14 °F to 149 °F)
<b>Operating Humidity</b>	15 % to 60 % RH
<b>Packing Weight</b>	0.1 kg (0.22 lb)
<b>Net Weight</b>	Not applicable
<b>Gross Weight</b>	Not applicable
<b>Accessories</b>	<ul style="list-style-type: none"> <li>• In-car charging cable</li> <li>• Charger (optional)</li> <li>• In-car arm stand</li> <li>• USB cable</li> <li>• User manual</li> <li>• CD (optional)</li> </ul>

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## Features

- 1280 × 1440 pixels at 30 frames per second or 1280 × 960 pixels at 30 frames per second HD/ 1280 × 480 pixels at 30 frames per second HD video
- 5-megapixel CMOS wafer, with interpolation (1.2-megapixel)
- Night LED fill-in light
- White balance compensation functions of various scenes
- High capacity lithium rechargeable battery
- Near focus shooting function
- 2.7-inch low temperature TFT 16:9 screen
- Exposure compensation function
- Built-in microphone/speaker
- Top support microSD card with 64 GB high capacity
- External GPS antenna available for check driving path
- HD television output interface: HDMI signal output, with a high of 1280 × 1440 resolutions

## Tech Specs

Model	TSMC3508
<b>Resolution</b>	1280 × 1440/1280 × 960/1280 × 480 pixels
<b>Photo Resolution</b>	12/8/5/3-megapixel
<b>Frame Rate</b>	30 frames per second
<b>Lens</b>	4 slices of prime lens, aperture 3.0, focal distance 7.45 mm
<b>Frequency</b>	50 Hz/60 Hz
<b>TV Mode</b>	PAL/NTSC
<b>Viewing Angle</b>	120° wide angle + 30° telescope
<b>Video Format</b>	AVI
<b>Photo Format</b>	JPEG
<b>Time</b>	Support (Y/M/D/H/M)

## TSMC3603

### 1080p 130° Wide Angle DVR with 1.5-inch Panel

1080p 130° wide angle DVR with 1.5-inch panel, 2 IR LEDs, microphone



Model	TSMC3603
<b>Interface</b>	USB 2.0
<b>Supported Language</b>	English/Germany/French/Spanish/Italian/Portugal/Traditional Chinese/Simplified Chinese/Japanese/Russian
<b>Power Supply Port</b>	5 V DC, 500 mA
<b>Battery</b>	Inbuilt (062535PL)
<b>Storage Temperature</b>	-20 °C to 80 °C (-4 °F to 176 °F)
<b>Operating Temperature</b>	-10 °C to 65 °C (14 °F to 149 °F)
<b>Operating Humidity</b>	15 % to 60 % RH
<b>Packing Weight</b>	0.44 kg (0.97 lb)
<b>Net Weight</b>	8.7 kg/ctn (19.18 lb/ctn)
<b>Gross Weight</b>	9.7 kg/ctn (21.38 lb/ctn)
<b>Accessories</b>	<ul style="list-style-type: none"> <li>• In-car charging cable</li> <li>• Charger (optional)</li> <li>• In-car arm stand</li> <li>• USB cable</li> <li>• User manual</li> <li>• CD (optional)</li> </ul>

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## Features

- Viewing angle of lens: 130°
- Camera resolution: 1920 × 1080 pixels
- 1.5-inch display
- Video quality: HD (1920 × 1080 pixels)/30 frames per second
- 2 pieces IR LED

## Tech Specs

Model	TSMC3603
<b>Resolution</b>	1080p/720p/480p
<b>Photo Resolution</b>	12/8/5/3-megapixel
<b>Frame Rate</b>	30 frames per second
<b>Lens</b>	1080p
<b>Frequency</b>	50 Hz/60 Hz
<b>TV Mode</b>	PAL/NTSC
<b>Viewing Angle</b>	130°
<b>Video Format</b>	AVI
<b>Photo Format</b>	JPG
<b>Time Synchronization</b>	Support (Y/M/D/H/M)
<b>G Sensor</b>	Not applicable
<b>Motion Detection</b>	Not applicable
<b>Automatically overwrite function</b>	Support
<b>Self Timer</b>	2Single/self timer (2/5/10 second)/continuous
<b>Display</b>	1.5-inch TFT colorful LCD
<b>Microphone</b>	Built in
<b>Speaker</b>	Built in
<b>Memory Card</b>	TF card
<b>IR Led</b>	2 pieces

## TSMC3604

### 1080p 130° Wide Angle DVR with 1.5-inch Panel

1080p 130° wide angle DVR with 1.5-inch panel, 6 IR LEDs, microphone and gravity sensor



Model	TSMC3604
<b>Microphone</b>	Built in
<b>Speaker</b>	Built in
<b>Memory Card</b>	TF card (maximum 32 GB)
<b>IR Led</b>	6 pieces
<b>Interface</b>	USB 2.0, AV-out/HDMI
<b>Supported Language</b>	Russian/Japanese/French/Italian/German/Spanish/English/Traditional Chinese/Simplified Chinese/Korean
<b>Power Supply Port</b>	5 V DC, 500 mA
<b>Battery</b>	Inbuilt (800 mAh)
<b>Storage Temperature</b>	-20 °C to 80 °C (-4 °F to 176 °F)
<b>Operating Temperature</b>	-10 °C to 65 °C (14 °F to 149 °F)
<b>Operating Humidity</b>	15 % to 60 % RH
<b>Packing Weight</b>	0.44 kg (0.97 lb)
<b>Net Weight</b>	8.7 kg/ctn (19.18 lb/ctn)
<b>Gross Weight</b>	9.7 kg/ctn (21.38 lb/ctn)
<b>Accessories</b>	<ul style="list-style-type: none"> <li>• In-car charging cable</li> <li>• Charger (optional)</li> <li>• In-car arm stand</li> <li>• USB cable</li> <li>• User manual</li> <li>• CD (optional)</li> </ul>

\*Design and specifications are subject to change without prior notice.

## Features

- Viewing angle of lens: 130°
- Camera resolution: 1920 × 1080 pixels
- 1.5-inch display
- Video quality: HD (1920 × 1080 pixels) at 30 frames per second
- 6 pieces IR LED
- TF card
- Built-in gravity sensor

## Tech Specs

Model	TSMC3604
<b>Resolution</b>	Maximum 1080p: 1920 × 1080/1440 × 1080/1280 × 720/848 × 480/640 × 480/320 × 240 pixels
<b>Photo Resolution</b>	2592 × 1944 pixels
<b>Frame Rate</b>	30 frames per second
<b>Lens</b>	1080p
<b>Frequency</b>	50 Hz/60 Hz
<b>TV Mode</b>	PAL/NTSC
<b>Viewing Angle</b>	120°
<b>Video Format</b>	MJPEG
<b>Photo Format</b>	JPG
<b>Time</b>	Support (Y/M/D/H/M)
<b>Synchronisation</b>	
<b>G Sensor</b>	Support
<b>Motion Detection</b>	Support
<b>Automatically overwrite function</b>	Support
<b>Self Timer</b>	2/10/12 s
<b>Display</b>	1.5-inch TFT colorful LCD



## TSMC3606

### 1080p 270° Wide Angle DVR with 2.7-inch Panel

1080p 270° wide angle DVR with 2.7-inch panel, 16 IR LEDs, microphone



Model	TSMC3606
G Sensor	Not applicable
Motion Dection	Not applicable
Automatically overwrite function	Support
Self Timer	2/10/12 s
Display	2.7-inche TFT Colorful LCD
Microphone	Built in
Speaker	Built in
Memory Card	microSD, TF card up to 32GB
IR Led	16 pieces
Interface	USB 2.0
Supported Language	Traditional Chinese/Simplified Chinese/English/Russian/Japanese/Korean
Power Supply Port	3.7 V, 600 mA
Battery	Inbuilt (600mAh lithium battery)
Storage Temperature	-20 °C to 80 °C (-4 °F to 176 °F)
Operating Temperature	-10 °C to 65 °C (14 °F to 149 °F)
Operating Humidity	15 % to 60 % RH
Packing Weight	0.12 kg (0.26 lb)
Net Weight	Not applicable
Gross Weight	Not applicable
Accessories	<ul style="list-style-type: none"> <li>• In-car charging cable</li> <li>• Charger (optional)</li> <li>• In-car arm stand</li> <li>• USB cable</li> <li>• User manual</li> <li>• CD (optional)</li> </ul>

\*Design and specifications are subject to change without prior notice.

## Features

- Dual channel simultaneous recording and displaying on screen
- 2.0-inch HD display without distortion, front lens can have 270° rotation
- H.264 image compression technique
- Day/night filming mode switch
- 30 frames per second smooth images with no delay or blur.
- Plug-n-Play HD pc camera
- 16 IR LED for night vision
- Cyclic recording mode with no memory run out issue.
- Motion detection
- Automatic recording when the vehicle starts, charging while recording.
- HDMI out supported
- 3 minutes the device will automatically entered screen saver mode

## Tech Specs

Model	TSMC3606
Resolution	480p/720p/1080p
Photo Resolution	1920 × 1080 pixels
Frame Rate	30 frames per second
Lens	<ul style="list-style-type: none"> <li>• Front lens: H.264 1920 × 1080 pixels at 30 frames per second</li> <li>• Back lens: H.264 720 × 576 pixels at 30 frames per second</li> </ul>
Frequency	50 Hz/60 Hz
TV Mode	PAL/NTSC
Viewing Angle	270°
Video Format	MOV
Photo Format	JPEG
Time Synchronization	Support (Y/M/D/H/M)

## TSMC3609

### Full HD 127° Wide Angle Low Light DVR with 2.5-inch Panel.

Full HD 127° wide angle low light DVR with 2.5-inch panel.



Model	TSMC3609
Speaker	Built in
Memory Card	Not applicable
IR Led	Not applicable
Interface	HDMI/ USB 2.0/AV
Supported Language	English/Traditional Chinese/Simplified Chinese/Korean
Power Supply Port	5 V DC
Battery	Rechargeable Li-ion battery or car charger
Storage Temperature	-20 °C to 80 °C (-4 °F to 176 °F)
Operating Temperature	-10 °C to 65 °C (14 °F to 149 °F)
Operating Humidity	15 % to 60 % RH
Packing Weight	0.12 kg (0.26 lb)
Net Weight	Not applicable
Gross Weight	Not applicable
Accessories	<ul style="list-style-type: none"> <li>• Car charger</li> <li>• In-car arm stand</li> <li>• User manual</li> </ul>

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## Features

- High resolution (1920 × 1080 pixels) H.264 video up to 30 frames per second
- Auto-record while engine starts
- Built-in accelerometer, gravity sensor, file auto-lock
- Seamless cycled recording
- Date and time stamp on recordings

## Tech Specs

Model	TSMC3609
Resolution	Full HD (1920 × 1080 pixels), 1280 × 720 pixels
Photo Resolution	12/8/5/3-megapixel
Frame Rate	Full HD (1920 × 1080 pixels)/up to 30 frames per second, 1280 × 720 pixels/up to 60 frames per second
Lens	Fixed, view angle 127°
Frequency	50 Hz/60 Hz
TV Mode	PAL/NTSC
Viewing Angle	127° super wide angle, F2.0, f = 3.6 mm
Video Format	AVI
Photo Format	JPEG
Time Synchronisation	Support (Y/M/D/H/M)
G Sensor	Not applicable
Motion Detection	Not applicable
Automatically overwrite function	Support
Self Timer	2/10/12 s
Display	2.5-inch TFT Colorful LCD
Microphone	Built in

# TSMS3101

## 1.3-megapixel Waterproof Sports Camera

Waterproof sports camera with 1.3-megapixel CMOS sensor



Model	TSMS3101
<b>Video Resolution</b>	640 × 480 pixels (30 frames per second)
<b>Photo Resolution</b>	-
<b>Focus</b>	Auto
<b>Cycle Recording</b>	Yes (15 min, 35 min and 45 min)
<b>Storage Card Slot</b>	microSD Card
<b>Light Fred</b>	50 Hz/60 Hz
<b>Maximum Storage Supported</b>	32 GB (not included)
<b>Interface</b>	USB 2.0
<b>Output</b>	A/V out
<b>Audio Input</b>	Built-in microphone
<b>White Balance Options</b>	Auto, cloudy, sunny, tungsten, florescent
<b>Battery Type</b>	2 × AA alkaline batteries (battery is not included)
<b>Working Time</b>	1.5 hours
<b>Ports</b>	Mini-USB, microSD slot, AV-out
<b>Languages</b>	Mult language
<b>Dimensions (W × L × H)</b>	90 mm × 50 mm × 40 mm (3.54 in × 1.97 in × 1.57 in)
<b>Color</b>	Black
<b>Accessories</b>	<ul style="list-style-type: none"> <li>• Action helmet camera</li> <li>• Helmet strap</li> <li>• USB cable</li> <li>• User manual</li> </ul>

\*Design and specifications are subject to change without prior notice.

## Features

- Waterproof sports camera
- Can work as webcam, up to 6 hours non-stop recording
- SD slot support up to 8 GB SD card (included)
- Shock-resistant for extreme conditions
- Wireless, hands-free, digital recording
- 64 MB internal built-in memory
- Resolution of 640 × 480 pixels at 30 frames per second to 50 frames per second
- 2 × 1.5 V AA alkaline batteries (not included), easy to change
- USB and RCA cables included for easy playback on PC or TV,
- Compatible with operation system WIN2000/XP/Vista and Apple Mac X10.3/10.4
- Power saving feature: camera will auto shutdown after one minute of non-activity
- Mounts easily on helmets, handlebars, and other sports equipment, suitable for use in sports like swimming/hunting/riding and so on
- Waterproof up to 3 meters and shock-resistant for extreme conditions

## Tech Specs

Model	TSMS3101
<b>Waterproof</b>	3ATM
<b>Image Sensor</b>	1.3-megapixel CMOS
<b>Lens</b>	54°
<b>Recommended Range for Audio</b>	4 m (13 ft)
<b>Recommended Range for Video</b>	2 m to 30 m (6.6 ft to 98 ft)
<b>Photo Format</b>	JPEG
<b>Video Format</b>	AVI

## TSMS3102

### 1.3-megapixel VGA Waterproof Sports Camera

VGA waterproof sports camera with 1.3-megapixel CMOS sensor



Model	TSMS3102
<b>Audio Input</b>	Built-in microphone
<b>White Balance Options</b>	Auto, cloudy, sunny, tungsten, florescent
<b>Battery Type</b>	2 × AA alkaline batteries (battery is not included)
<b>Working Time</b>	1.5 hours
<b>Ports</b>	Mini-USB, microSD slot, AV-out
<b>Languages</b>	Multilanguage
<b>Dimensions (W × L × H)</b>	110 mm × 67 mm × 48 mm (4.33 in × 2.64 in × 1.89 in)
<b>Color</b>	Black
<b>Accessories</b>	<ul style="list-style-type: none"> <li>• Waterproof sports action camera</li> <li>• Fastening velcro strap</li> <li>• Fastening rubber strap</li> <li>• Handlebar grip mount</li> <li>• Mounting brackets</li> <li>• A/V cable</li> <li>• USB cable</li> </ul>

\*Design and specifications are subject to change without prior notice.

## Features

- 1.3-megapixel CMOS camera sensor
- Video shoot: 640 × 480 pixels (30 frames per second)
- The bicycle camera configuration is 380 mAH lithium battery (1.5 hours)
- Support TF card slot (support up to 8 GB)
- Supports 64 MB internal memory
- Support TV output
- Support network cameras

## Tech Specs

Model	TSMS3102
<b>Waterproof</b>	3ATM
<b>Image Sensor</b>	1.3-megapixel CMOS
<b>Lens</b>	54°
<b>Recommended Range for Audio</b>	4 m (13 ft)
<b>Recommended Range for Video</b>	2 m to 30 m (6.6 ft to 98 ft)
<b>Photo Format</b>	JPEG
<b>Video Format</b>	AVI
<b>Video Resolution</b>	640 × 480 pixels (30 frames per second)
<b>Photo Resolution</b>	1280 × 720 pixels
<b>Focus</b>	-
<b>Cycle Recording</b>	Yes (15 min, 35 min and 45 min)
<b>Storage Card Slot</b>	SD Card
<b>Light Fred</b>	50 Hz/60 Hz
<b>Maximum Storage Supported</b>	8 GB (not included)
<b>Interface</b>	USB 2.0
<b>Output</b>	A/V out

## TSMS3303

### 720p Water Proof Sports Camera

720p waterproof sports camera



<b>Model</b>	TSMS3303
<b>Interface</b>	USB 2.0
<b>Output</b>	-
<b>Audio Input</b>	Built-in microphone
<b>White Balance Options</b>	-
<b>Battery Type</b>	Inbuilt
<b>Working Time</b>	-
<b>Ports</b>	-
<b>Languages</b>	-
<b>Dimensions (W x L x H)</b>	31 mm x 25.5 mm x 81 mm (1.22 in x 1.00 in x 3.19 in)
<b>Color</b>	Green, yellow, red
<b>Accessories</b>	<ul style="list-style-type: none"> <li>• Action helmet camera</li> <li>• L type mount</li> <li>• USB cable</li> <li>• Screws box</li> </ul>

\*Design and specifications are subject to change without prior notice.

## Features

- Joy, enjoy and share: for bikes, scooters, water sports, extreme sports...etc.
- Continue long time using up to 3 hours
- Supports microSDHC 32 GB
- Very tiny size, light weights (60 g (0.13 lb) only), easy to carry
- Aluminium housing, various colors optional
- Single-button operation, only ONE finger to control
- High resolution: 1280 x 720 pixels (HD)
- Auto record/overwrite
- Seamless footage

## Tech Specs

<b>Model</b>	TSMS3303
<b>Waterproof</b>	IP66
<b>Image Sensor</b>	1.3-megapixel CMOS
<b>Lens</b>	54°
<b>Recommended Range for Audio</b>	4 m (13 ft)
<b>Recommended Range for Video</b>	2 m to 30 m (6.6 ft to 98 ft)
<b>Photo Format</b>	MJPEG
<b>Video Format</b>	AVI
<b>Video Resolution</b>	1280 x 720 pixels
<b>Photo Resolution</b>	1280 x 720 pixels
<b>Focus</b>	Auto
<b>Cycle Recording</b>	Yes
<b>Storage Card Slot</b>	microSD Card
<b>Light Fred</b>	50 Hz/60 Hz
<b>Maximum Storage Supported</b>	32 GB (not included)

# TSMV2201

## 4 Channels Mini Mobile DVR with GPS and 3G Features

4 channels mini mobile DVR with GPS and 3G features



Model	TSMV2201
<b>Storage Media</b>	SDHC card (up to 32 GB)
<b>Resolution</b>	D1 × 4 (1440 × 960 pixels)
<b>Compression</b>	H.264
<b>File Format</b>	AVI
<b>Frame Rate</b>	Up to 30 frames per second (NTSC)/channel; 25 frames per second (PAL) /channel
<b>Recording Mode</b>	Boot, pre/post, manual
<b>GPS</b>	External device (receiver)
<b>3G Transmission</b>	External 3.5G modem
<b>Watchdog</b>	Built-in
<b>Remote Control</b>	IR remote control
<b>Dimensions (W × L × H)</b>	175 mm × 90 mm × 35 mm (6.89 in × 3.54 in × 1.38 in)
<b>Weight</b>	0.28 kg (0.62 lb)
<b>Operating Temperature</b>	-20 °C to 70 °C (-4 °F to 158 °F)

\*Design and specifications are subject to change without prior notice.

## Features

- Compact size
- Low power consumption: 3 W to 5 W
- Storage: SDHC card (up to 32 GB)
- Full power support-input 9 V to 36 V
- Support pre/post recording mode
- Compression: H.264
- Supports GPS tracking (external device)
- 3.5G transmission (customize)
- Video loss alarm

## Tech Specs

Model	TSMV2201
<b>OS</b>	Embedded Linux
<b>File System</b>	FAT32
<b>Power Consumption</b>	3 W to 5 W
<b>Power Input</b>	DC 12/24 V
<b>Video Channel</b>	4 channels
<b>Audio Channel</b>	1 channel
<b>Audio/Video Input and Power Output</b>	6 pin mini din: <ul style="list-style-type: none"> <li>• 12 V DC/120 mA output to per camera</li> <li>• Video input × 4</li> <li>• Audio input × 1 (mono)</li> </ul>
<b>Audio/Video Output</b>	6 pin mini din (composite)
<b>USB Port</b>	USB port × 2
<b>External IR Cable</b>	Optional