



2014

TS Product Catalogue



**Mobile
Surveillance**



TSMC3101

VGA 120° Wide Angle DVR with 2.5-inch Panel



Model	TSMC3101
Microphone	-
Speaker	-
Memory Card Slot	SD, SDHC memory card up to 32 GB (optional)
IR LEDs	6 pieces
Connectors	<ul style="list-style-type: none"> • USB 2.0 port × 1 • AV (CVBS) output × 1
Languages	English, Japanese, Russian, Portuguese, Traditional Chinese, Simplified Chinese, Korean
Input Power	6 V DC
Battery	Built-in rechargeable lithium-ion battery
Storage Temperature	-20 °C to 80 °C (-4 °F to 176 °F)
Operating Ambient Temperature	-10 °C to 65 °C (14 °F to 149 °F)
Relative Humidity	15 % to 60 % noncondensing
Weight	0.45 kg (0.99 lb)
Included Accessories	<ul style="list-style-type: none"> • USB cable × 1 • Rechargeable lithium-ion battery × 1 • Car charger × 1 • In-car arm stand × 1 • User guide × 1

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

Features

- Field of view: 120°
- 1/4-inch VGA CMOS image sensor
- VGA (640 × 480 pixels) at 30 frames per second video recording
- 2.5-inch TFT color LCD display
- Built-in SDHC/SD memory card slot (up to 32 GB)
- Built-in rechargeable lithium-ion battery
- Built-in 6 pieces IR LEDs

Tech Specs

Model	TSMC3101
Video Resolutions	640 × 480 pixels
Image Resolutions	-
Frame Rate	30 frames per second
Lens	VGA
Frequency	50 Hz/60 Hz
Video Standard	PAL/NTSC
Viewing Angle	120°
Video Format	MJPEG
Image Format	-
Time Synchronization	Yes (year/month/date/hour/minute)
Accelerometer	-
Motion Detection	-
Automatically Overwrite Function	Yes
Self Timer	-
Display	2.5-inch TFT color LCD

TSMC3305

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



Model	TSMC3305
Display	1.5-inch TFT color LCD
Microphone	Built-in (external)
Speaker	Built-in (external)
Memory Card Slot	microSD, microSDHC memory card up to 32 GB (optional)
IR LEDs	-
Connectors	USB 2.0 port × 1
Languages	English, French, German, Spanish, Japanese, Russian, Italian, Traditional Chinese, Simplified Chinese, Korean
Input Power	5 V DC, 500 mA
Battery	Built-in 5 V DC, 180 mAh, rechargeable lithium-ion battery
Storage Temperature	-20 °C to 80 °C (-4 °F to 176 °F)
Operating Ambient Temperature	-10 °C to 65 °C (14 °F to 149 °F)
Relative Humidity	15 % to 60 % noncondensing
Weight	0.42 kg (0.93 lb)
Included Accessories	<ul style="list-style-type: none"> • USB cable × 1 • Rechargeable lithium-ion battery × 1 • Car charger × 1 • In-car arm stand × 1 • User guide × 1 • Power adaptor × 1 (optional)

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Features

- Field of view: 120°
- 12-megapixel CMOS image sensor
- HD (1280 × 720 pixels) at 30 frames per second video recording
- 1.5-inch TFT color LCD display
- Built-in microSDHC/SD memory card slot (up to 32 GB)
- Built-in 5 V DC, 180 mAh, rechargeable lithium-ion battery
- Built-in accelerometer
- Built-in microphone, speaker

Tech Specs

Model	TSMC3305
Video Resolutions	1280 × 720 pixels
Image Resolutions	4032 × 3024 pixels
Frame Rate	30 frames per second
Lens	720p
Frequency	50 Hz/60 Hz
Video Standard	PAL/NTSC
Viewing Angle	120°
Video Format	AVI
Image Format	JPG
Time Synchronization	Yes (year/month/date/hour/minute)
Accelerometer	Yes
Motion Detection	Yes
Automatically Overwrite Function	Yes
Self Timer	2/10/12 s

TSMC3307

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



Model	TSMC3307
Self Timer	2/10/12 s
Display	2.0-inch TFT color LCD
Microphone	Built-in
Speaker	Built-in
Memory Card Slot	microSD, microSDHC memory card up to 32 GB (optional)
IR LEDs	4 pieces
Connectors	USB 2.0 port × 1
Languages	English, Russian, Traditional Chinese, Simplified Chinese
Input Power	5 V DC, 500 mA
Battery	Built-in 5 V DC, 800 mAh, rechargeable lithium-ion battery
Storage Temperature	-20 °C to 80 °C (-4 °F to 176 °F)
Operating Ambient Temperature	-10 °C to 65 °C (14 °F to 149 °F)
Relative Humidity	15 % to 60 % noncondensing
Weight	0.32 kg (0.71 lb)
Included Accessories	<ul style="list-style-type: none"> • USB cable × 1 • Rechargeable lithium-ion battery × 1 • Car charger × 1 • In-car arm stand × 1 • User guide × 1 • Power adaptor × 1 (optional)

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Features

- Field of view: 120°
- 9-megapixel CMOS image sensor
- HD (1280 × 720 pixels) at 30 frames per second video recording
- 2.0-inch TFT color LCD display
- Built-in microSDHC/SD memory card slot (up to 32 GB)
- Built-in 5 V DC, 800 mAh, rechargeable lithium-ion battery
- Built-in 4 pieces IR LEDs
- Built-in accelerometer
- Built-in microphone, speaker

Tech Specs

Model	TSMC3307
Video Resolutions	1280 × 720 pixels
Image Resolutions	2048 × 1536 pixels
Frame Rate	30 frames per second
Lens	<ul style="list-style-type: none"> • Front lens: H.264, 1280 × 720 at 30 frames per second • Back lens: H.264, 720 × 576 at 30 frames per second
Frequency	50 Hz/60 Hz
Video Standard	PAL/NTSC
Viewing Angle	120°
Video Format	AVI
Image Format	JPEG
Time Synchronization	Yes (year/month/date/hour/minute)
Accelerometer	Yes
Motion Detection	Yes
Automatically Overwrite Function	Yes

TSMC3402

1.3-megapixel Car Portable DVR with 2.5-inch Panel



Model	TSMC3402
Self Timer	2/10/12 s
Display	2.5-inch TFT color LCD
Microphone	Built-in
Speaker	Built-in
Memory Card Slot	microSD, microSDHC memory card up to 32 GB (optional)
IR LEDs	2 pieces
Connectors	USB 2.0 port × 1
Languages	English, Japanese, Russian, Traditional Chinese, Simplified Chinese
Input Power	5 V DC, 500 mA
Battery	Built-in 5 V DC, 600 mAh, rechargeable lithium-ion battery
Storage Temperature	-20 °C to 80 °C (-4 °F to 176 °F)
Operating Ambient Temperature	-10 °C to 65 °C (14 °F to 149 °F)
Relative Humidity	15 % to 60 % noncondensing
Weight	0.48 kg (1.06 lb)
Included Accessories	<ul style="list-style-type: none"> • USB cable × 1 • Rechargeable lithium-ion battery × 1 • Car charger × 1 • In-car arm stand × 1 • User guide × 1 • Power adaptor × 1 (optional)

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Features

- Field of view: 120°
- 1/4-inch CMOS image sensor
- 2.5-inch TFT color LCD display
- Built-in microSDHC/SD memory card slot (up to 32 GB)
- Built-in 5 V DC, 600 mAh, rechargeable lithium-ion battery
- Built-in 4 pieces IR LEDs
- Built-in microphone, speaker

Tech Specs

Model	TSMC3402
Video Resolutions	VGA/D1/HD (1280 × 960 pixels)
Image Resolutions	2592 × 1944 pixels
Frame Rate	30 frames per second
Lens	HD
Frequency	50 Hz/60 Hz
Video Standard	PAL/NTSC
Viewing Angle	120°
Video Format	AVI
Image Format	JPG
Time Synchronization	Yes (year/month/date/hour/minute)
Accelerometer	-
Motion Detection	-
Automatically Overwrite Function	Yes

TSMC3508

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



Model	TSMC3508
Display	2.7-inch TFT color LCD
Microphone	Built-in
Speaker	Built-in
Memory Card Slot	microSD, microSDHC, microSDXC memory card up to 64 GB (optional)
IR LEDs	4 pieces
Connectors	<ul style="list-style-type: none"> • USB 2.0 port × 1 • AV (CVBS) output × 1
Languages	English, French, German, Spanish, Japanese, Russian, Italian, Traditional Chinese, Simplified Chinese, Korean
Input Power	3.7 V DC
Battery	Built-in rechargeable lithium-ion battery
Storage Temperature	-20 °C to 80 °C (-4 °F to 176 °F)
Operating Ambient Temperature	-10 °C to 65 °C (14 °F to 149 °F)
Relative Humidity	15 % to 60 % noncondensing
Weight	0.1 kg (0.22 lb)
Included Accessories	<ul style="list-style-type: none"> • USB cable × 1 • Rechargeable lithium-ion battery × 1 • Car charger × 1 • In-car arm stand × 1 • User guide × 1 • Power adaptor × 1 (optional)

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Features

- 5-megapixel CMOS image sensor
- HD (1280 × 1440 pixels) at 30 frames per second video recording
- 2.7-inch TFT color LCD display
- Built-in microSDXC/SDHC/SD memory card slot (up to 64 GB)
- Built-in rechargeable lithium-ion battery
- Built-in 4 pieces IR LEDs
- Built-in microphone, speaker

Tech Specs

Model	TSMC3508
Video Resolutions	1280 × 1440/1280 × 960/1280 × 480 pixels
Image Resolutions	12/8/5/3-megapixel
Frame Rate	30 frames per second
Lens	4 slices of prime lens, F3.0, f = 7.45 mm
Frequency	50 Hz/60 Hz
Video Standard	PAL/NTSC
Viewing Angle	120° wide + 30° telescope
Video Format	AVI
Image Format	JPEG
Time Synchronization	Yes (year/month/date/hour/minute)
Accelerometer	-
Motion Detection	-
Automatically Overwrite Function	Yes
Self Timer	2/10/12 s

TSMC3603

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



Model	TSMC3603
Display	1.5-inch TFT color LCD
Microphone	Built-in
Speaker	Built-in
Memory Card Slot	microSD, microSDHC memory card up to 32 GB (optional)
IR LEDs	2 pieces
Connectors	USB 2.0 port × 1
Languages	English, French, German, Spanish, Japanese, Russian, Italian, Portuguese, Traditional Chinese, Simplified Chinese
Input Power	5 V DC, 500 mA
Battery	Built-in rechargeable lithium-ion battery
Storage Temperature	-20 °C to 80 °C (-4 °F to 176 °F)
Operating Ambient Temperature	-10 °C to 65 °C (14 °F to 149 °F)
Relative Humidity	15 % to 60 % noncondensing
Weight	0.44 kg (0.97 lb)
Included Accessories	<ul style="list-style-type: none"> • USB cable × 1 • Rechargeable lithium-ion battery × 1 • Car charger × 1 • In-car arm stand × 1 • User guide × 1 • Power adaptor × 1 (optional)

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Features

- Field of view: 130°
- 2-megapixel CMOS image sensor
- Full HD (1920 × 1080 pixels) at 30 frames per second video recording
- 1.5-inch TFT color LCD display
- Built-in microSDHC/SD memory card slot (up to 32 GB)
- Built-in rechargeable lithium-ion battery
- Built-in 2 pieces IR LEDs
- Built-in microphone, speaker

Tech Specs

Model	TSMC3603
Video Resolutions	1080p/720p/480p
Image Resolutions	12/8/5/3-megapixel
Frame Rate	30 frames per second
Lens	1080p
Frequency	50 Hz/60 Hz
Video Standard	PAL/NTSC
Viewing Angle	130°
Video Format	AVI
Image Format	JPG
Time Synchronization	Yes (year/month/date/hour/minute)
Accelerometer	-
Motion Detection	-
Automatically Overwrite Function	Yes
Self Timer	2 single/self timer (2/5/10 second)/continuous

TSMC3604

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



Model	TSMC3604
Self Timer	2/10/12 s
Display	1.5-inch TFT color LCD
Microphone	Built-in
Speaker	Built-in
Memory Card Slot	microSD, microSDHC memory card up to 32 GB (optional)
IR LEDs	6 pieces
Connectors	<ul style="list-style-type: none"> • USB 2.0 port × 1 • AV (CVBS) output × 1 • HDMI output × 1
Languages	English, French, German, Spanish, Japanese, Russian, Italian, Traditional Chinese, Simplified Chinese, Korean
Input Power	5 V DC, 500 mA
Battery	Built-in 5 V DC, 800 mAh, rechargeable lithium-ion battery
Storage Temperature	-20 °C to 80 °C (-4 °F to 176 °F)
Operating Ambient Temperature	-10 °C to 65 °C (14 °F to 149 °F)
Relative Humidity	15 % to 60 % noncondensing
Weight	0.44 kg (0.97 lb)
Included Accessories	<ul style="list-style-type: none"> • USB cable × 1 • Rechargeable lithium-ion battery × 1 • Car charger × 1 • In-car arm stand × 1 • User guide × 1 • Power adaptor × 1 (optional)

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Features

- Field of view: 130°
- 2-megapixel CMOS image sensor
- Full HD (1920 × 1080 pixels) at 30 frames per second video recording
- 1.5-inch TFT color LCD display
- Built-in microSDHC/SD memory card slot (up to 32 GB)
- Built-in 5 V DC, 800 mAh, rechargeable lithium-ion battery
- Built-in 6 pieces IR LEDs
- Built-in accelerometer
- Built-in microphone, speaker

Tech Specs

Model	TSMC3604
Video Resolutions	1920 × 1080 (1080p)/1440 × 1080/1280 × 720/848 × 480/640 × 480/320 × 240 pixels
Image Resolutions	2592 × 1944 pixels
Frame Rate	30 frames per second
Lens	1080p
Frequency	50 Hz/60 Hz
Video Standard	PAL/NTSC
Viewing Angle	120°
Video Format	MJPEG
Image Format	JPG
Time Synchronization	Yes (year/month/date/hour/minute)
Accelerometer	Yes
Motion Detection	Yes
Automatically Overwrite Function	Yes

TSMC3606

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



Model	TSMC3606
Self Timer	2/10/12 s
Display	2.7-inche TFT color LCD
Microphone	Built-in
Speaker	Built-in
Memory Card Slot	microSD, microSDHC memory card up to 32 GB (optional)
IR LEDs	16 pieces
Connectors	USB 2.0 port × 1
Languages	English, Japanese, Russian, Traditional Chinese, Simplified Chinese, Korean
Input Power	3.7 V DC, 600 mA
Battery	Built-in 3.7 V DC, 600 mAh, rechargeable lithium-ion battery
Storage Temperature	-20 °C to 80 °C (-4 °F to 176 °F)
Operating Ambient Temperature	-10 °C to 65 °C (14 °F to 149 °F)
Relative Humidity	15 % to 60 % noncondensing
Weight	0.12 kg (0.26 lb)
Included Accessories	<ul style="list-style-type: none"> • USB cable × 1 • Rechargeable lithium-ion battery × 1 • Car charger × 1 • In-car arm stand × 1 • User guide × 1 • Power adaptor × 1 (optional)

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Features

- Full HD (1920 × 1080 pixels) at 30 frames per second video recording
- 2.7-inch TFT color LCD display
- Front lens can have 270° rotation
- Built-in microSDHC/SD memory card slot (up to 32 GB)
- Built-in 3.7 V DC, 600 mAh, rechargeable lithium-ion battery
- Built-in 16 pieces IR LEDs
- Supports H.264 stream recording
- Built-in microphone, speaker

Tech Specs

Model	TSMC3606
Video Resolutions	480p/720p/1080p
Image Resolutions	1920 × 1080 pixels
Frame Rate	30 frames per second
Lens	<ul style="list-style-type: none"> • Front lens: H.264, 1920 × 1080 pixels at 30 frames per second • Back lens: H.264, 720 × 576 pixels at 30 frames per second
Frequency	50 Hz/60 Hz
Video Standard	PAL/NTSC
Viewing Angle	270°
Video Format	MOV
Image Format	JPEG
Time Synchronization	Yes (year/month/date/hour/minute)
Accelerometer	-
Motion Detection	-
Automatically Overwrite Function	Yes

TSMC3609

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



Model	TSMC3609
Self Timer	2/10/12 s
Display	2.5-inch TFT color LCD
Microphone	Built-in
Speaker	Built-in
Memory Card Slot	-
IR LEDs	-
Connectors	<ul style="list-style-type: none"> • USB 2.0 port × 1 • AV (CVBS) output × 1 • HDMI output × 1
Languages	English, Traditional Chinese, Simplified Chinese, Korean
Input Power	5 V DC
Battery	Built-in 5 V DC, 800 mAh, rechargeable lithium-ion battery
Storage Temperature	-20 °C to 80 °C (-4 °F to 176 °F)
Operating Ambient Temperature	-10 °C to 65 °C (14 °F to 149 °F)
Relative Humidity	15 % to 60 % noncondensing
Weight	0.12 kg (0.26 lb)
Included Accessories	<ul style="list-style-type: none"> • Rechargeable lithium-ion battery × 1 • Car charger × 1 • In-car arm stand × 1 • User guide × 1

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

Features

- 2-megapixel CMOS image sensor
- Full HD (1920 × 1080 pixels) at 30 frames per second video recording
- 2.5-inch TFT color LCD display
- Built-in 5 V DC, 800 mAh, rechargeable lithium-ion battery
- Supports H.264 stream recording
- Built-in accelerometer
- Built-in microphone, speaker

Tech Specs

Model	TSMC3609
Video Resolutions	1920 × 1080 (full HD)/1280 × 720 pixels
Image Resolutions	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	127°
Frequency	50 Hz/60 Hz
Video Standard	PAL/NTSC
Viewing Angle	127°, F2.0, f = 3.6 mm
Video Format	AVI
Image Format	JPEG
Time Synchronization	Yes (year/month/date/hour/minute)
Accelerometer	Yes
Motion Detection	-
Automatically Overwrite Function	Yes

TSMS3101

1.3-megapixel Water Proof Sports Camera

Model	TSMS3101
Finish	Black
Included Accessories	<ul style="list-style-type: none"> • Helmet strap × 1 • USB cable × 1 • User guide × 1

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



Features

- HD (640 × 480 pixels) at 50 frames per second video recording
- Built-in SD memory card slot (up to 8 GB)
- 64 MB internal memory
- Up to 1.5 hours battery using time
- Hands-free, digital recording
- Waterproof up to 3 meters and shock-resistant for extreme conditions

Tech Specs

Model	TSMS3101
Protection Rating	3ATM
Image Sensor	1.3-megapixel CMOS image sensor
Viewing Angle	54°
Image Format	JPEG
Video Format	AVI
Video Resolutions	640 × 480 pixels (30 frames per second)
Image Resolutions	-
Cycle Recording	Yes (15 min, 35 min and 45 min)
Memory Card Slot	microSD, microSDHC memory card up to 32 GB (optional)
Connectors	<ul style="list-style-type: none"> • mini-USB (USB 2.0) × 1 • AV (CVBS) output × 1
Audio Input	Built-in microphone
White Balance	Auto, cloudy, sunny, tungsten, florescent
Battery	AA batteries × 2 (optional)
Working Time	1.5 hours
Ports	mini-USB, microSD slot, AV-out
Languages	Multi-language
Dimensions (W × H × L)	90 mm × 50 mm × 40 mm (3.54 in × 1.97 in × 1.57 in)

TSMS3102

1.3-megapixel VGA Water Proof Sports Camera

Model	TSMS3102
Finish	Black
Included Accessories	<ul style="list-style-type: none"> • Fastening velcro strap × 1 • Fastening rubber strap × 1 • Handlebar grip mount × 1 • Mounting brackets × 1 • AV cable × 1 • USB cable × 1 • User guide × 1

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



Features

- 1.3-megapixel CMOS image sensor
- HD (640 × 480 pixels) at 30 frames per second video recording
- Up to 1.5 hours battery using time
- Hands-free, digital recording
- Built-in 380 mAh, rechargeable lithium-ion battery
- Built-in microSDHC/SD memory card slot (up to 8 GB)
- 64 MB internal memory
- Waterproof up to 3 meters and shock-resistant for extreme conditions

Tech Specs

Model	TSMS3102
Protection Rating	3ATM
Image Sensor	1.3-megapixel CMOS image sensor
Viewing Angle	54°
Image Format	JPEG
Video Format	AVI
Video Resolutions	640 × 480 pixels (30 frames per second)
Image Resolutions	1280 × 720 pixels
Cycle Recording	Yes (15 min, 35 min and 45 min)
Memory Card Slot	microSD, microSDHC memory card up to 8 GB (optional)
Connectors	<ul style="list-style-type: none"> • mini-USB (USB 2.0) × 1 • AV (CVBS) output × 1
Audio Input	Built-in microphone
White Balance	Auto, cloudy, sunny, tungsten, florescent
Battery	AA batteries × 2 (optional)
Working Time	1.5 hours
Languages	Multi-language
Dimensions (W × H × L)	110 mm × 67 mm × 48 mm (4.33 in × 2.64 in × 1.89 in)

TSMS3303

720p Water Proof Sports Camera

Model	TSMS3303
	<ul style="list-style-type: none"> • Screw box × 1 • USB cable × 1 • User guide × 1

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



Features

- IP66, NEMA-4X enclosure rating
- HD (1280 × 720 pixels) at 30 frames per second video recording
- Up to 3 hours battery using time
- Built-in microSDHC/SD memory card slot (up to 32 GB)
- Very tiny size, light weights (60 g (0.13 lb) only), easy to carry

Tech Specs

Model	TSMS3303
Protection Rating	IP66, NEMA-4X enclosure rating
Image Sensor	1.3-megapixel CMOS image sensor
Viewing Angle	54°
Image Format	MJPEG
Video Format	AVI
Video Resolutions	1280 × 720 pixels
Image Resolutions	1280 × 720 pixels
Cycle Recording	Yes
Memory Card Slot	microSD, microSDHC memory card up to 32 GB (optional)
Connectors	mini-USB (USB 2.0) × 1
Audio Input	Built-in microphone
White Balance	-
Battery	Built-in rechargeable lithium-ion battery
Working Time	-
Languages	-
Dimensions (W × H × L)	31 mm × 25.5 mm × 81 mm (1.22 in × 1.00 in × 3.19 in)
Finish	Green, yellow, red
Included Accessories	<ul style="list-style-type: none"> • Rechargeable lithium-ion battery × 1 • L type mount × 1

TSMV2201

4 Channels Mini Mobile DVR with GPS and 3G Features

Model	TSMV2201
Recording Mode	Boot, pre/post, manual
GPS	External GPS receiver
3G Transmission	External 3.5G modem
Remote Control	IR remote control
Dimensions (W × H × L)	175 mm × 90 mm × 35 mm (6.89 in × 3.54 in × 1.38 in)
Weight	0.28 kg (0.62 lb)
Operating Ambient Temperature	-20 °C to 70 °C (-4 °F to 158 °F)

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



Features

- Compact size recorder
- Low power consumption: 3 W to 5 W
- Built-in SDHC/SD memory card slot (up to 32 GB)
- Supports H.264 stream recording
- Supports GPS tracking and 3.5G transmission
- Video loss alarm

Tech Specs

Model	TSMV2201
Operating System	Embedded Linux OS
Power Consumption	3 W to 5 W
Input Power	12 V DC/24 V AC
Video Input	4 channels
Audio Input	1 channel
Connectors	6 pin mini din: <ul style="list-style-type: none"> • 12 V DC, 120 mA output to camera • Video input × 4 • Audio input × 1 (mono)
USB Ports	USB port × 2
Memory Card Slot	SD, SDHC memory card up to 32 GB (optional)
Resolutions	D1 × 4 (1440 × 960 pixels)
Video Compression	H.264
Video Format	AVI
Frame Rate	Up to 30 frames per second (NTSC)/channel; 25 frames per second (PAL)/channel