

# 4 Channel DVR with Built-in Camera

- Dual SD card recording
- Built-in High resolution Camera with IR
- Built-in LAN to support Network & Notification
- Built-in Wi-Fi module for wireless connection
- Action recording such as oil pump ON/ OFF, pump valve ON/OFF
- Or other electric device (optional)
- GPS data recording for moving from location to other location (optional).

TM-DVS



## FEATURES - SPECIFICATIONS

MODEL: TM-DVS

System	Booting Times	10 seconds to record after booting
	SD Card Detect	Auto format; if not, then DVR format.
	SD Card Fail Auto Detect	Auto detect SD card failure and recovery.
	Event Log	P(Panic), B(Booting), R(Recording), M(Motion), A(Alarm), S(Over Speed), T(GPS Update Time), G(G-Sensor Trigger), Loss(Video Loss), O(HDD Overwrite), K (Power Key Off), SA (Stop Arm), AL (Amber Light).
	System log	Yes, system log for troubleshooting.
Video	Watch-Dog Timer	Yes
	Video Input	4 Channel Inputs
Audio	Video Output	1 Video Output
	Audio Input	4 Channel Inputs
	Audio Output	1 Channel Output
Display	Audio Compression	Adaptive Differential Pulse Code Modulation (ADPCM)
	Video System	NTSC or PAL (Auto Detection)
	Display Resolution	NTSC: 720x480 / PAL: 720x576
Recording	Compression	JPEG/H.264 Like (H4L)
	Recording Resolution	NTSC: 720x480 (D1) / PAL: 720x576 (D1)
	Recording Capability	7.5/15/30/60 fps @ D1 (depending on SD card speed)
	Recording Quality	4 Levels selectable (Super High, High, Middle, Standard)
	Recording Mode	1. By Time Schedule: Continuous, Motion, Alarm, Non-Recording 2. By Power Time Schedule: DVR wake and record by power system time schedule
Playback	FPS By Channel	Each camera can be set by different recording frame rate and resolution
	Display Mode	1 or 4
	Playback Speed	Forward, Backward, 1/2/4/8/16 X Fast Forward, Pause, 1/2,1/4,1/8, Frame by Frame Search.
Storage	Search Mode	By time or by event
	SD Memory Card	SD Card x 2
Control	System Control	IR Remote Controller
	Remote Software	IE Web Browser
Network	Ethernet	1 RJ45 Port
	Network Protocol	TCP/IP, HTTP, DHCP, LAN, DDNS, PPPoE
	Notification	Yes, support 15 notification alerts, user selectable, Panic alert with snapshot
GPIO (Alarm)	Alert E-mail	1. Coordinate information included 2. Panic with JPEG snapshot (camera source selectable) 3. Can set maximum 3 e-mail address
	Sensor Input	4 input / (NC/NO/OFF adjust on OSD)
	Relay Output	1 output (NC, NO, COM)
	Pre-Alarm Recording	Yes
Integration	Post-Alarm Recording	Yes
	RS485	Yes (TX/RX)
	GPS	Yes (Optional)
	G-Sensor	3D G-Sensor
	PC Player	FPL / FPL Pro
	Power Consumption	12VDC / <300mA
	Weight & Dimension	2.8Kg / 28.5 x 38.2 x 10.2 cm

\*Above specification is subject to change without notice.



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# Water-proof & Vandal-proof IR Camera

TM-250C

## CLEAR IMAGE CAPTURE DAY OR NIGHT

The multi-purpose IS-2500 is a water-proof and vandal-proof camera with a PeriOptic 2500 Lens, an 81.2 degree field of view and a 90 degree adjustable viewing angle that is optimized to provide sharp, bright pictures, day or night, in varying locations.

## HIGH QUALITY AUDIO & VIDEO

TMI's IS-2500 camera is specially designed to capture the highest quality audio and video from the interior of your vehicle. The PeriOptic 2500 Lens records crystal-clear video with an 81.2 degree field of view and a 90 degree adjustable viewing angle, while the noise-gated microphone filters out external noise and audio distortions. The IS-2500 also comes encased in a durable, vandal-proof stamped metal housing to ensure that your investment is protected.



## FEATURES - SPECIFICATIONS

MODEL: TM-250C

### DIMENSIONS & WEIGHT

- Lens Size: 2.5 millimeters
- Width: 3 inches
- Height: 2.5 inches
- Depth: 2 inches
- Weight: 160 grams

### IMAGE CAPTURE & RESOLUTION

- 520TV lines of resolution
- Effective picture elements:  
NTSC 768\*492/PAL 752\*582 (H\*V)
- AGC: ON
- S/N ratio: >48dB (AGC off)
- Light sensitivity: 0.5Lux f1.2 /  
0Lux with infrared

### OPERATIONAL SPECIFICATIONS

- Operational temperature: -10°C ~ +55°C
- Storage temperature: -20°C ~ +70°C

### CAMERA SPECIFICATIONS

- 1/3" Sony CCD image sensor
- 2.5mm PeriOptic Lens
- Internal synchronization
- 0.45 gamma correction
- Electronic iris: 1/60~1/100,000 (NTSC);  
1/50~1/100,000 (PAL)
- Automated white balance
- Video Out: 1.0 Vp-p, 750hm

### POWER & CURRENT CONSUMPTION

- Current consumption: 110mA @DC12V  
(less than 200mA @ IR ON)
- DC12V (10V ~ 16V) power supply  
(input voltage)

## CAMERA FEATURES

- High image quality with 1/3" Sony CCD Imager
- 2.5mm PeriOptic high dynamic lens
- Working low light - can work in less than 0.5Lux f1.2 or 0Lux with infrared
- Wide voltage range - 10V ~ 16V
- Low power consumption (90mA @ DC12V) to extend camera lifespan
- Clear black and white image while IR is activated
- Dynamic built-in audio with noise-gate filter
- User-selectable audio function
- Automatic white balance
- Metal lens holder with GND isolation
- Built in AGC
- Vandal-proof stamped metal housing
- Full 90 degree angle adjustment
- Ultra wide lens



Field of View

## CAMERA PLACEMENT

Recommended camera placement and field of view:

