

## **YMD-104 W**

## VEHICLE DIGITAL RECORDER

YMD-14 M DVR is designed for 4ch Stand-Alone Type Mobile DVR (Digital Video Recorder) and connectable all kind of vehicles.

Originally designed "three-dimensional Vibration and Shock Protect structure" keeps stable operation from bad road condition and vibration. Automatic Temperature Control System protects from bad weather condition by internal Heater and Blower. It is also designed to use both 12 VDC and 24 VDC. The product fits all kind of vehicles due to its operative input voltage range is 10 VDC ~ 40 VDC.

It is very convenience to change Hard Disk by using Removable Hard Disk Drive. Also it supports various functions of Alarm Sensor, Password and Key Lock.

## **FEATURES**

- High Stability and Reliability
- Internal Three-dimensional Vibration and Shock Protect structure
- 10V DC ~ 40V DC Available
- Removable Hard Drive
- Sensor Alarm capability
- No Pre-format is required
- Key Lock Function
- Shutdown Delay Time
- Password protection
- Motion Detection
- TCP/IP Network

		KMH-104	KMH-104W				
VIDEO INPUTS	Video Standard	NTSC (EIA) or PAL (CCIR), automatically detected					
OUTPUTS	Video Inputs	4 composite inputs, 1 V p-p / 75 ohms					
	Video Outputs	2 composite output to monitor, 1 V p-p / 75 ohms					
OPERATIONAL	Compression Algorithm						
	Record Quality	Low / Standard / High, user selectable					
	Standard Media	GB max.)					
	Display Resolution						
	Record Resolution	Quad mode: 640 x 224 (NTSC), 640 x 272 (PAL) Each mode: 320 x 112 (NTSC), 320 x 136 (PAL)					
	Display Rate	120 fps (4x30 fps) (NTSC), 100 fps (4x25 fps) (PAL) (fps =fields per second)					
	Record Rate (Max.)	Ouad Pocord: 30 fps (NTSC), 25 fps (PAL)					
			/7/5/4/3/2/1 fps (NTSC)				
	Record Speeds	25 / 12 / 8 / 6 / 4 / 3 / 2 / 1 fps (PAL)					
		Each Record: Quad record speed (fps) / camera numbers					
	Playback Speeds	x1, x2, x4, x8, x16, x32, x64, x128, x256 (Forward/Reverse)					
	Record Modes	Continuous / Alarm / Scheduled Time / Camera / Event User-programmable recording times for each hour of a day					
	Search Modes						
	Record Schedule						
	Camera Titles		8 alpha numeric				
	Operating Mode Simplex						
	Alarm Inputs						
	Alarm Output						
	Shutdown Delay Time	1 minute ~ 4 hou	urs, user selectable				
	Temperature Control	N/A	2 pad heaters and 2 blowers				
CONNECTORS	Signal Connectors		inputs and 1 monitor) arm inputs and 1 relay output)				
	Power Connectors	2 DC power jack (pin dia. 2.0 mm) for monitor power on the front and the rear					
		panel,					
	Fuee	Female housing 8-pin connector (for power input and power output)					
ELECTRICAL	Fuse Power Input	5A 10 VDC ~ 40 VDC					
LLLCTRICAL	Power Consumption		On Booting: 36 W max.				
	(w/Hard drive)	On Booting: 36 W max.	Nominal: 20 W max.				
	(wo/External power)	Nominal: 20 W max.	(pad heater: 30 W, blower: 2.4 W)				
MECHANICAL	Dimensions	222 W x 260 D x 100 H mm	(11.4 W x 10.2 D x 3.9 H inch)				
	Weight	Product (no hard drive): 5.2 kg (11.44 lb)	Product (no hard drive): 5.9 kg (13.0 lb)				
	Finish	Dark plum enameled steel chassis and cover					
	Rack Mounting Kit	2 L-shaped brackets (included)					
ENVIRONMENT	Operating Temperature	5°C to 40°C (41°F to 104°F)	-35°C to 70°C (-31°F to 158°F) (Equal to storage temperature range)				
AL	Storage	<u> </u>					
	Temperature	-35°C to 70°C (-31°F to 158°F)					
	Relative Humidity	10% to 80% relative, non-condensing					
REGULATORY	Immunity	FCC and CE (reserved)					
	FCC	Part 15 subpart B, class A					
	EMI	EN55022,1998, class A					

## RECORD DURATION (80 GB)

(D=Day, M=Month)

[NTSC]	Video Quality	Record Speed (fps = fields per second)						s per second)
		30 fps	15 fps	10 fps	5 fps	4 fps	2 fps	1 fps
Quad Screen	High	1.5D	3.0D	4.5D	9.0D	11.3D	22.5D	1.5M
	Standard	2.0D	4.0D	6.0D	12.0D	15.0D	1.0M	2.0M
	Low	2.4D	4.8D	7.2D	14.4D	18.0D	1.2M	2.4M
Each Screen	High	1.9D	3.8D	5.6D	11.3D	14.1D	0.9M	1.9M
	Standard	2.5D	5.0D	7.5D	15.0D	18.8D	1.3M	2.5M
	Low	3.0D	6.0D	9.0D	18.0D	22.5D	1.5M	3.0M