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P R O D U C T D E T A I L S

HKS Direct Multi Recorder (49010-AK002) DMR-150D, 2nd Camera & 8GB SDHC Card x 1 Included



[Direct Multi Recorder]

"Record," "View," and "Analyze" driving with HKS' drive recorder DMR. DMR is now one seg and DTT compatible.

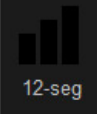



Some drive recorders generate radio wave, which causes the electromagnetic interference of digital terrestrial broadcasting, which results in poor or no signal reception.

HKS DMR minimizes radio emission with radio shielding on the main unit and other components!

HKS DMR can record driving and allow digital terrestrial broadcast viewing at the same time.

\* Depending on signal reception/ radio wave conditions, digital terrestrial broadcasting may not be received properly.

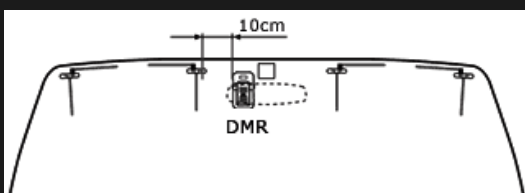
Comparison of DTT Antenna Reception

	Company P's: 2-channel, 2-tuner DTT tuner		Company P's: 4-channel, 4-tuner DTT tuner	
	General drive recorder	<b>DMR</b>	General drive recorder	<b>DMR</b>
Drive Recorder NOT in use	Antenna level of 61	Antenna level of 57	 12-seg	 12-seg
Drive Recorder in use	Antenna level of 28	Antenna level of 54	 1-seg	 12-seg

\* Result of in-house Test (It may be different from actual usage.)

Setting of the DMR

When placing the DMR unit 10cm away from the TV antenna, it was possible to watch digital terrestrial broadcasting on TV and 1-Seg digital TV.



\* FM/AM/FM-VICS/GPS can be received properly.

\* DMR also functions as a drive recorder that can keep visual records of incidents and accidents accurately.

### Shoot the Performance!

- a 1.3 mega pixel CMOS digital sensor unit
- 142.5° wide-angle camera + supersensitive 2nd camera

### Record the Performance!

- Image and sound are recorded simultaneously.
- Location & speed recorded using GPS, viewed on Google Map.
- Vehicle's XYZ direction can be recorded using G sensor.
- Permanent power supply allows continuous recording.

### View the Performance!

- Data can be analyzed on PC using the DMR viewer software.
- 16 frame multi capture for continuous recording.



Second Camera (Standard Equipment)  
SONY CCD camera(24x24x27)

## MAIN FEATURES

Main unit contains a camera, of course, GPS and G sensors to enable recording of video, audio, position time and impact with improved recording performance. "DMR" is the recorder to enjoy recording

## SIMPLE INSTALLATION

- Position the DMR unit at the top of the windscreen, and just spark plug into the Cigar Lighter Socket.

## GPS UNIT & G-SENSOR EQUIPPED

- Location and interval speed can be viewed on Google maps using the GPS location information.
- G sensor can detect and record the speed (G) so the DMR can show the XYZ amplitude. Also, there is a permanent power supply unit include which prevents the battery from discharging too much.

## SECOND CAMERA as STANDARD EQUIPMENT

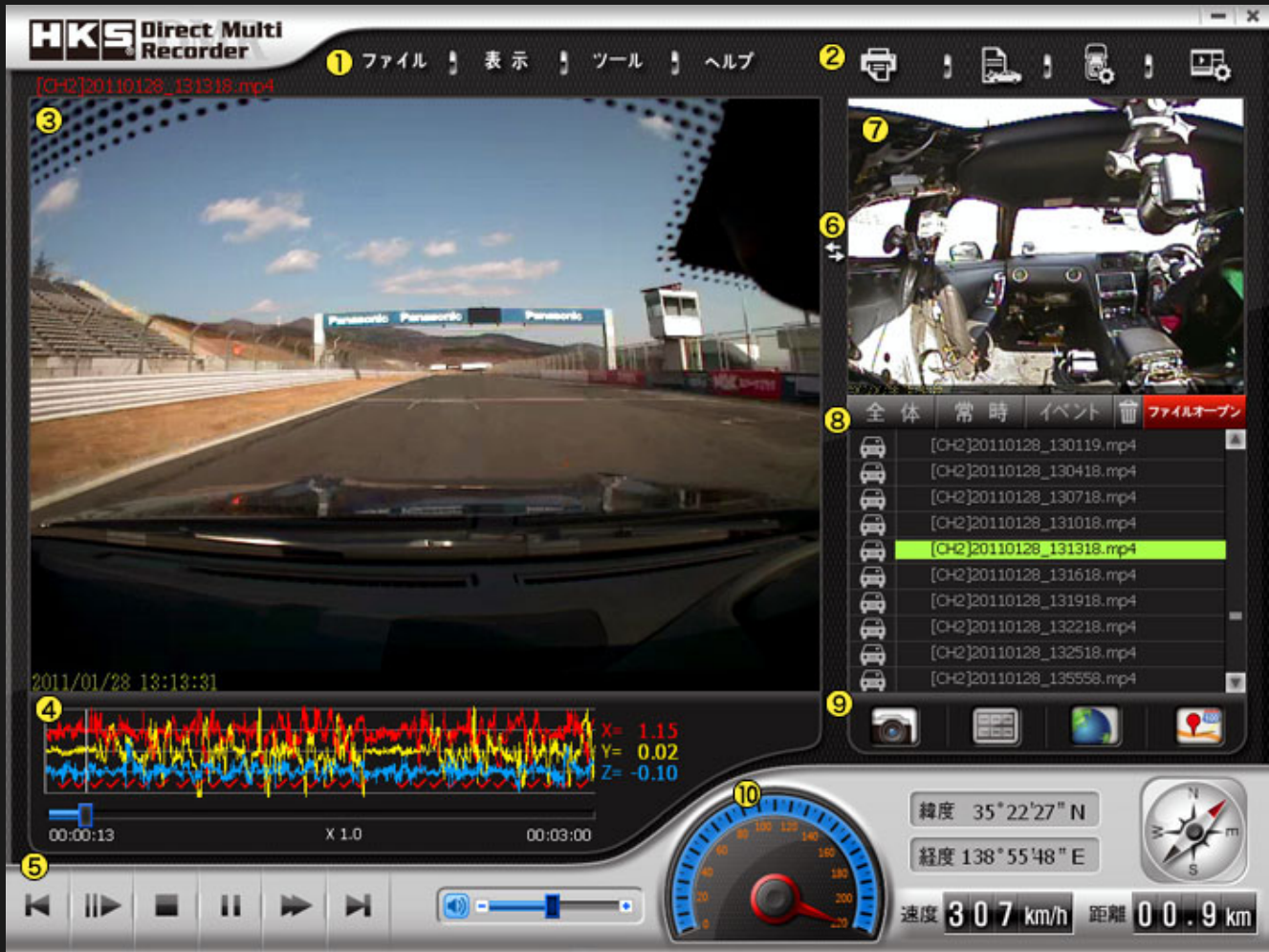
•HKS' DMR is equipped with the 2nd camera as a standard. The camera can point towards the driver's foot or meters to record the driver during circuit. Using the special viewer software, it is possible to analyze your driving more precisely.

## DMR's "HIPER ENGINE" ON CPU

•Most recent high speed CPU (Hiper DMR Engine) allows seamless recording straight to SD memory card without delay even though most drive recorders will have short gaps ever few minutes in recording when it saves the recording to SD memory card.

•DMR uses the latest systems to directly record to the SD memory card meaning that those precious moments aren't lost. It also does not retain any data on the main unit. This is a unique feature for the HKS' DMR.

## VIEWER SOFTWARE - FUNCTIONS



1 Menu: Menu of "File", "View", "Tool", and "Help."

2 Shortcut Icons: Shortcut of printing, event report, DMR settings, and viewer software setup.

3 Main Screen: Screen to show the Image recorded.

4 G Sensor Graph: Graph shows the variation of G sensor.

(Red: Front & back side, Yellow: Lateral side, Blue: Up & down side)

5 VCR Control: Adjust image conditions, volume, and replay speed.

6 Screen Switch Button: Switch the screen between the main screen and sub screen.

7 Sub-Screen: Image from the camera, Google Maps, or Google Earth are shown.

8 File List: List of images recorded.

9 Shortcut Icons: Icons for capture, 16 frame multi capture, Google Earth, and Google Maps.

10 GPS Data - Speed Information: GPS data, speed, and distance are shown.

## SPECIFICATION

Size	H: 107mm / W: 60mm / T: 19mm	
Weight	93g	
Voltage	12V-24V	
Operation Temperature	-10ã - +60ã	
Main Camera	1.3M Pixel CMOS Digital Sensor	
2nd Camera	0.27M Pixel / Color CCD (Monochrome in dark)	
G Sensor	XYZ 3D Sensor (for possible impact, heavy braking, rapid acceleration)	
GPS	GPS data for longitude, latitude and time	
Storage Media	SDHC2GB-16GB (8GB allows for 16hours 1ch recording)	
Recording Resolution	MEGA Mode	IN: 1280×960 OUT: 640×480
	VGA Mode	IN: 640×480 OUT: 640×480
Recording Speed	Main Camera	MEGA: 15 frame (1280x960)
		VGA: 30 frame (640x480)
	2nd Camera (2ch)	MEGA: 8 frame (1280x960)
		VGA: 15 frame (640x480)
Recorded Data Format	H.264 (MPEG-4 AVC)	
Recording Time	Continuous Save Mode.	Constantly records in 3 minute segments
	Event Mode.	Records 15 seconds before and after an event (total 30 seconds)
Other	Internal Microphone, Internal Buzzer, LED	



## PACKAGE CONTENTS

- DMR Main Unit
- Cigar Lighter Socket Power Cable (4m)
- Hard Wire Power Unit (3m)
- SD Memory Card (8GB)
- Video output cable (90cm)
- Guide Sticker
- Fitting Bracket
- 2nd Camera
- 2nd Camera Power & AV cable
- 2nd Camera Holder
- Fitting accessories (screws clips tape)
- Viewing software (Windows XP, Vista, 7 Compatible)