

### **Automotive Components**

DashCam



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# PRODUCT

# overview

Cloud Dashcam Wi-Fi communication type Dashcam



Full HD / Full HD 2CH

**MK10W** 

## Cloud Dashcam

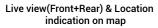


#### Features

- Cloud service
- (Front+Rear) FULL HD 30fps 2CH
- WDR feature built in
- H.264/ ADPCM
- Wi-Fi smart phone connection(Available for tethering)
- 128GB SD included









Video recording location indication stored on cloud



Display driving-info by date/ time statistically



Convenient settings from your smartphone







Real-time video check on smartphone

Convenient settings from your smartphone

#### Specifications

Item	Content	Item	Content
Model name	MK10W	Format free	Yes
Size (mm)	104(W)mm X 65(H)mm X 35(D)mm	Weight	123g (including cradle)
Display pannel	3.5inch IPS touch LCD (480 × 320)	Wi-Fi module	Embedded
Memory capacity	microSD (8GB to 64GB)	High-temperature blocking	Embedded
Resolution	Front FHD (1920x1080) Rear FHD (1920x1080)	Firmware updatemethod	Micro SD card update support
Image sensor	Front camera : Sony Image Sensor Rear camera : Sony Image Sensor	Viewer	There is a dedicated viewer (using Google Maps)
Frames per second	1CH front MAX.30fps 2CH front MAX.30fps, rear MAX.30fps	SD Card format function	Yes
Recording method	Normal: Normal Mode + Event Mode Parking: Front/ Rear motion detect + Event Mode)	Power consumption	Max 2.8W
Compression method	H.264 / PCM	Accelerometer	Built-in (alarm when driving according to set value)
Input power	12~24V support	Recording function	Yes
Backup power	Super cap embedded	Discharge protection low-voltage	Built-in
Speaker	Built-in	Operating temperature	-10°C~+60°C
GPS	External GPS port(option)	Storage temperature	-20°C~+70°C

#### Specifications

Item	Content	Item	Content
Model name	HONOR	Format free	Yes
Size (mm)	104(W)mm X 70(H)mm X 32.5(D)mm	Weight	123g (including cradle)
Display pannel	3.5inch IPS touch LCD (480 × 320)	Wi-Fi module	External (USB Type) 2.4GHz (optional)
Memory capacity	microSD (8GB to 128GB)	GPS	External GPS port(option)
Resolution	Front FHD (1920x1080) Rear FHD (1920x1080)	Firmware updatemethod	Micro SD card update support
Image sensor	Front camera : Sony Image Sensor Rear camera : Sony Image Sensor	Viewer	There is a dedicated viewer (using Google Maps)
Frames per second	1CH front MAX.30fps 2CH front MAX.30fps, rear MAX.30fps	SD Card format function	Yes
Recording method	Normal: Normal Mode + Event Mode	Power consumption	Max 2.8W
Compression method	H.264 / PCM	Accelerometer	Built-in (alarm when driving according to set value)
Input power	12~24V support	Recording function	Yes
Backup power	Super cap embedded	Operating temperature	-10°C~+60°C
Speaker	Built-in	Storage temperature	-20°C~+70°C

#### Features

- FHD camera(Front) & FHD camera(Rear)
- Wi-Fi communication type dashcam
- GPS embedded for vehicle location, speed
- High image quality and sensing technology installed!
- Format free!
- Night vision installed!





SONY Image Sensor



Format free!

## Wi-Fi 2CH full HD Dashcam

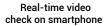


#### Features

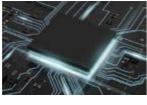
- FHD camera(Front) & FHD camera(Rear)
- Wi-Fi dashcam connected with smartphone
- GPS embedded
- High image quality and sensing technology installed!
- ADAS(Advanced Driver Assistance System) installed!
- Night vision installed!







Convenient settings from your smartphone



SONY Image Sensor



Format free!

#### Specifications

Item	Content	ltem	Content
Model name	WFF-800C	Format free	Yes
Size (mm)	97(W)mm X 47(H)mm X 33(D)mm	Weight	123g (including cradle)
Memory capacity	microSD (16GB to 64GB) class 10 or higher	Firmware updatemethod	Micro SD card update support
Resolution	Front/Rear FHD (1920x1080)	Viewer	There is a dedicated viewer (using Google Maps)
Image sensor	Front camera : SONY IMX307 Rear camera : SONY IMX323	Wi-Fi module	Embedded
Frames per second	1CH front MAX.30fps 2CH front MAX.30fps, rear MAX.30fps	Power consumption	Max 4.8W
Recording method	Normal: Normal Mode + Event Mode Parking: Front/ Rear motion detect + Event Mode	Accelerometer	Built-in (alarm when driving according to set value)
Video encoding	H.264 / PCM	Recording function	Yes
Input power	12~24V support	Discharge protection low-voltage	Support
Backup power	Super cap embedded	Play video	MK10W video player, App on smartphone
Speaker	Built-in	Operating temperature	-10°C~+60°C
GPS module	Embedded	Storage temperature	-20°C~+70°C

## PRODUCT -

## overview

Radar Detector + Dashcam



Radar Detector + Dashcam

#### Radar Detector + Dashcam

**ADR-22** 



#### Features

- Front/Rear Full HD (1920x1080)
- Wi-Fi dashcam connected with smartphone
- GPS embedded for vehicle location, speed
- High image quality and sensing technology installed!
- ADAS(Advanced Driver Assistance System) installed!
- Night vision installed!
- Anti-CAS





Specifications



Wi-Fi dashcam connected Anti-CAS Anti-CAS(Offering the least amount of false alerts from Collision Avoidance Systems(CAS) in other vehicles) with smartphone



SONY STARVIS Sensor



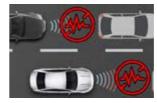


GPS detection for speed camera location

Item Content Item Content Model name ADR-22 Alarm Yes Size(mm) 84(W)mm X 40(H)mm X 92(D)mm Viewer Available for PC Viewer(only), smartphone CPU SAV833D Wi-Fi module Yes (Wi-fi enabled to View, Share & Edit Videos) Image sensor Sony 2M Starvis (IMX307) GPS module Built-in GPS (Alarm while driving) 140°(D) X 115°(H) X 60°(V) Acceleration sensor Angle of view Acceleration sensor Resolution Front/Rear FHD (1920x1080) Recording function Yes (On / Off) 1CH front MAX.30fps Voice recording and Frames per second Yes (On / Off) voice guidance 2CH front MAX.30fps, rear MAX.30fps Recording method Normal recording / Event recording / Manual recording X-band (10.525GHz ±25MHz) H.264 / ADPCM K-band (24.150GHz ±100MHz) Video encoding Radar frequency Ka-band (34.700GHz ±1300MHz) Display panel 1.54inch IPS LCD (240 X 240) 2step brightness High / Middle / Low Display brightness Radar sensitivity setting Setting button Button (4ea) Anti CAS Yes Embedded Sensitivity setting / Mute Speaker Key setting Memory capacity microSD (8GB to 64GB) Input power 12V (Only) TBD TBD Recording time Power consumption Format free Yes Operating temperature -10℃~+60℃ Available for PC Viewer(only), smartphone -20℃~+70℃ Video playback Storage temperature AV output No Laser wavelength 800~1100nm







Wi-Fi dashcam connected with smartphone

Anti-CAS Anti-CAS(Offering the least amount of false alerts from Collision Avoidance Systems(CAS) in other vehicles)

#### Specifications

Item	Features	Content	
Core	CPU	Format free	
Core	RAM	Weight	
Display	LCD	Firmware updatemethod	
Front FHD	Sensor	1/2.8 inch CMOS (Sony IMX307)	
FIONLERD	Resolution/ Frame	1920*1080 / 30fps	
Port	DC Power	DC 12~24V	
FOIL	Storage Slot	Micro SD card	
		X-band : 10.525GHz (±50MHz)	
	Radar Detector	K-band : 24.150GHz (±150MHz)	
		Laser : 800~1100nm	
Port	Backup Battery	Li-Polymer, 380mAh	
POIL	Acceleration Sensor	3axis ±2G	
	Microphone	Built-in	
	Speaker	Max. 0.8W mono	
	Storage	8~64 GB (Class 10)	
Size and Weight	Main Size / Weight	98 x 65 x 24 mm	
	Operating Voltage	12~24V	
Power	Consumption Current	320mA	
Temperature	Operating Temp	-10°C~+60°C	
	Storage Temp	-20℃~+70℃	

#### Features

- Front/Rear Full HD (1920x1080)
- Wi-Fi dashcam connected with smartphone
- GPS embedded for vehicle location, speed
- High image quality and sensing technology installed!
- ADAS(Advanced Driver Assistance System) installed!
- Night vision installed!
- Anti-CAS





SONY STARVIS Sensor



GPS detection for speed camera location

ltem	Features	Content
	OS	Format free
	Video Encoding	Weight
	Audio Encoding	Firmware updatemethod
		Sony IMX307
	Camera	125°
		1920 * 1080 / 30fps
	Storage Slot	Micro SD card
		NF_TTMMDD-HHMMSS.AVI (AllTime Recording) EF_TTMMDD-HHMMSS.AVI (Impact Recording)
Basic	File name format	MF_TTMMDD-HHMMSS.AVI (ManualRecording) PF_TTMMDD-HHMMSS.AVI
		(Battery Recording)
		*YYMMDD: Year/Month/Day
		*HHMMSS: Hour/Minute/Second
	Event Recording	Max Previous 10 sec, Total 20sec (configurable)
	Recording Time	1Min,3Min,5Min
	Folder	AllTime / EVENT / PROTECT
	File Constructure	Video + Audio + GPS+G-sensor in one file
	File System	FAT32 with journaling, Fixed file size Cluster size 64kB
Function	Play Back	Single playback/FF/RW/Pause/Play
FUNCTION	Storage	8~64 GB (Class 10)

# PRODUCT

## overview

Smart mirror Dashcam fork lift Dashcam



#### Smart mirror **MI-1000**



#### Features

• Smart mirror feature for dashcam (Smart mirror body + (Front+Rear) Full HD)

- SONY STARVIS Sensor
- HDR built in
- 9.35inch wide IPS LCD
- Night vision installed!



#### fork lift Dashcam MF-1000





(Front+Rear) FULL HD 30fps 2CH



HDR built in (Possible to record clearly even with various illumination changes)







SONY STARVIS Sensor





(Front+Rear) FULL HD 30fps 2CH

Waterproof for indoor / outdoor use.

Specifications

Item	Content	ltem	Content
Model name	MI-1000	Format free	Yes
Size (mm)	265(W)mm X 76.3(H)mm X 24(D)mm	Weight	362g
Display pannel	9.35inch Wide IPS	HDR	Yes
Memory capacity	microSD (8GB~64GB)	GPS	External GPS port(option)
Resolution	Front FHD (1920x1080) Rear FHD (1920x1080)	Firmware updatemethod	Micro SD card update support
Image sensor	Front camera : Sony Image Sensor Rear camera : Sony Image Sensor	Viewer	There is a dedicated viewer (using Google Maps)
Frames per second	1CH front MAX.30fps 2CH front MAX.30fps, rear MAX.30fps	SD Card format function	Yes
Recording method	Infinite loop(normal) recording/ Infinite loop (normal) + Event/ Quick recording Infinite loop(normal) recording/ Motion/ Infinite loop(normal) + Event/ Motion+Event(When Parking)	Power consumption	Max 2.8W
Viewing angle	(Front+Rear): 117.9(H) X 62.2 (V) X 141(D)	voice recording	Yes
Compression method	H.264 / PCM / Still frame JPEG	3G Sensor	Yes (Impact sensitivity: 10steps)
Input power	12~24V support	Recording function	Yes
Backup power	Super cap embedded	Operating temperature	-10°C~+60°C
Speaker	Built-in	Storage temperature	-20°C~+70°C

Specifications

### TBD (To Be Determined)

#### Features

- Possible to mount on any forklift
- Compact design for easy installation
- Waterproof for indoor/outdoor





Compact design for easy installation



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SONY STARVIS Sensor
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# PRODUCT

## overview

2CH Full HD Dashcam





SFHD / HD 2CH SH-300M

#### Front/Rear Full HD

#### W2



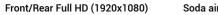
#### Features

- FHD camera(Front) & FHD camera(Rear)
- Soda air(CO2) measurement
- Time lapse
- External GPS port(option)
- High image quality and sensing technology installed!
- Format free
- Night vision installed!









Soda air(CO2) measurement



ADAS installed!





SFHD / HD 2CH

Night vision installed!

#### Specifications

Item	Content	Item	Content
Model name	SH-300M	Format free	Yes
Size (mm)	111(W)mm X 69(H)mm X 35.5(D)mm	Weight	128g (including cradle)
Display pannel	3.5inch touch LCD (480 × 320)	High-temperature blocking	Embedded
Memory capacity	microSD (8GB to 64GB)	Firmware updatemethod	Micro SD card update support
Resolution	Front SFHD (2304 x 1296) Rear HD (1280x720)	Viewer	There is a dedicated viewer (using Google Maps)
Image sensor	Front camera : SFHD CMOS Sensor Rear camera : HD CMOS Sensor	SD Card format function	Yes
Frames per second	1CH front MAX.30fps 2CH front MAX.30fps, rear MAX.30fps	Power consumption	Max 3.2W
Recording method	Normal: Normal Mode + Event Mode Parking: Front/ Rear motion detect + Event Mode, Time lapse)	Accelerometer	Built-in (alarm when driving according to set value)
Compression method	H.264 / PCM	Recording function	Yes
Input power	12~24V support	Discharge protection low-voltage	Built-in
Backup power	Super cap embedded	Security LED	Yes
Speaker	Built-in	Operating temperature	-10°C~+60°C
GPS	External GPS port(option)	Storage temperature	-20°C~+70°C

#### Specifications

ltem	Content	ltem	Content
Model name	W2	Format free	Yes
Size (mm)	105(W)mm X 70(H)mm X 34.5(D)mm	Weight	140g (including cradle)
Display pannel	3.5inch touch LCD (480 × 320)	High-temperature blocking	Embedded
Memory capacity	microSD (8GB to 64GB)	Firmware updatemethod	Micro SD card update support
Resolution	Front FHD (1920 x 1080) Rear FHD (1920 x 1080)	Viewer	There is a dedicated viewer (using Google Maps)
Image sensor	Front camera : Sony Image Sensor Rear camera : Sony Image Sensor	SD Card format function	Yes
Frames per second	1CH front MAX.30fps 2CH front MAX.30fps, rear MAX.30fps	Power consumption	Max 4.2W
Recording method	Normal: Normal Mode + Event Mode Parking: Front/ Rear motion detect + Event Mode, Time lapse)	Acceleration sensor	Support for a 3-axis acceleration sensor
Compression method	H.264 / PCM	Recording function	Yes
Input power	12~24V support	Discharge protection low-voltage	Built-in
Backup power	Super cap embedded	Security LED	Yes
Speaker	Built-in	Operating temperature	-10°C~+60°C
GPS	External GPS port(option)	Storage temperature	-20°C~+70°C







SONY Image Sensor



#### Features

- 2K Resolution & Super premium dashcam
- ADAS installed! (LDWS) / (FCWS) / (FVSA)
- External GPS port(option)
- Format free!
- Night vision installed!





ADAS installed!



Format free!

Full HD / HD 2CH

**F2** 

#### SFHD / HD 2CH





#### Features

- SFHD camera(Front) & HD camera(Rear)
- TLDS (Traffic lights detection system)
- External GPS port(option)
- High image quality and sensing technology installed!
- Format free
- Night vision installed!





SFHD High image quality





TLDS (Traffic lights detection system) Front Vehicle Start Alarm(FVSA)





GPS detection for speed camera location







TLDS (Traffic lights detection system)

GPS detection for speed camera location

#### Specifications

Item	Content	Item	Content
Model name	F2	Format free	Yes
Size (mm)	104(W)mm X 65(H)mm X 36.5(D)mm	Weight	125g (including cradle)
Display pannel	3.5inch touch LCD (480 × 320)	High-temperature blocking	Embedded
Memory capacity	microSD (8GB to 64GB)	Firmware updatemethod	Micro SD card update support
Resolution	Front FHD (1920 x 1080) Rear HD (1280 x 720)	Viewer	There is a dedicated viewer (using Google Maps)
Image sensor	Front camera : Prime CMOS Sensor Rear camera : Clairpixel CMOS AHD Sensor	SD Card format function	Yes
Frames per second	1CH front MAX.30fps 2CH front MAX.30fps, rear MAX.30fps	Power consumption	Max 4W
Recording method	Normal: Normal Mode + Event Mode Parking: Front/ Rear motion detect + Event Mode)	Acceleration sensor	Support for a 3-axis acceleration sensor
Compression method	H.264 / PCM	Recording function	Yes
Input power	12~24V support	Discharge protection low-voltage	Built-in
Backup power	Super cap embedded	Security LED	Yes
Speaker	Built-in	Operating temperature	-10°C~+60°C
GPS	External GPS port(option)	Storage temperature	-20°C~+70°C

#### Specifications

Item	Content	ltem	Content
Model name	M1	Format free	Yes
Size (mm)	106(W)mm X 66.8(H)mm X 38.4(D)mm	Weight	123g (including cradle)
Display pannel	3.5inch touch LCD (480 × 320)	High-temperature blocking	Embedded
Memory capacity	microSD (8GB to 64GB)	Firmware updatemethod	Micro SD card update support
Resolution	Front SFHD (2304 x 1296) Rear HD (1280 x 720)	Viewer	There is a dedicated viewer (using Google Maps)
Image sensor	Front camera : Prime CMOS Sensor Rear camera : Clairpixel CMOS AHD Sensor	SD Card format function	Yes
Frames per second	1CH front MAX.30fps 2CH front MAX.30fps, rear MAX.30fps	Power consumption	Max 4W
Recording method	Normal: Normal Mode + Event Mode Parking: Front/ Rear motion detect + Event Mode)	Acceleration sensor	Support for a 3-axis acceleration sensor
Compression method	H.264 / PCM	Recording function	Yes
Input power	12~24V support	Discharge protection low-voltage	Built-in
Backup power	Super cap embedded	Security LED	Yes
Speaker	Built-in	Operating temperature	-10°C~+60°C
GPS	External GPS port(option)	Storage temperature	-20°C~+70°C

#### Features

- FHD camera(Front) & FHD camera(Rear)
- Wi-Fi communication type dashcam
- GPS embedded for vehicle location, speed
- High image quality and sensing technology installed!
- ADAS(Advanced Driver Assistance System) installed!
- Night vision installed!





Front Vehicle Start Alarm(FVSA)



Format free!



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