

MODEL: CARPA-120 (2Channel)		Specification	
 Front  Rear  Gift Box	Main Chipset (No.)		MV8652
	GPS		Internal 360° GPS intena module
	G-Sensor		Internal 3D G-Sensor (X: Front/Rear Y: Left/Right Z: Up/Down)
	Camera	Sensor	1/4" CCD & CMOS
		Lens	High quality precision lens (1.3MPixel)
		Resolution	640 x 480
		Angle (Front)	83.9°(V) X 103.1°(H) X 121.0°(D)
		Angle (Rear)	96°(V) X 119°(H) X 141°(D)
	Audio	Input Mic	YES
		Output Speaker	YES / Voice information guide. Error auto checking programe
		Silent Mode	YES / 5th level volume control
	Memory	Embedded Memory	Samsung Nand Flash Memory 512MB
		External Memory	SD Card, 2GB~32GB support
	Power Supply	Rated Voltage	DC 12-24V
		Adapter	Cigarette power adaptor or Direct power supply from Vehicle
	Dimension	Unit Dimension (LxWxH)/mm	108(L)x124(W)x25(H) / mm 4.25(L)x4.88(W)x0.98(H) / inch
		Video	Format H.264 Resolution VGA (640 x 480) FPS 30 fps
	Audio	Format	AAC
		Bitrate	128kbps
	Recording Info.	Recorded files	Event Video Clip (Overwriting) : Max.50 Manual Video Clip (Overwriting) : Max.20
		Recording times (30ftp, High Quality)	Continuous/Event/Manual Video clip : Appx. 60 seconds - Pre-Event 15 seconds / Post-Event 15 seconds - If G-sensor triggers when video footage under 15 second, it bring out two video files in event folder
		File Size (30fps, High quality)	Each Continuous/Event/Manual Video clip : Appx. 23MB
		Adjust sensitivity	User options
		Parking mode	Parking mode recording - recorded in 4 fps Extention recording time by 4 times
		PC software	OS Windows98, ME, 2000, XP, VISTA32, and Window 7

Terms & Conditions:

- Price term : FOB INCHEON AIRPORT
- Valid for quotation : 1 month from the effective date
- MOQ : 1K units(OEM) or petty order
- Delivery term : within 2 weeks
- Warranty period : 12 months from shipment date
- Bundle Accessory : Main unit, Cigar light jack, 4GB SDHC Card(SANDISK), USB adoptor, Cable fitting kit, and User manual,PC Manager,GPS TRACKER Manager
- Payment : L/C at sight or T/T in advance

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MODEL: CARPA-11 (2 Channel)		Specification	
 Front  Rear <RCAM-11NR>  Normal Rear cam <RCAM-11IR8>  IR Rear cam	Main Chipset (No.) MV8652		
	GPS Internal 360° GPS intena module		
	G-Sensor Internal 3D G-Sensor (X: Front/Rear Y: Left/Right Z: Up/Down)		
	Camera	Sensor	1/4" CCD & CMOS
		Lens	High quality precision lens (1.3MPixel)
		Resolution	640 x 480
		Angle (Front)	96°(V) X 119°(H) X 121°(D)
	Audio	Input Mic	YES
		Output Speaker	YES / Voice information guide. Error auto checking programe
		Silent Mode	YES / 5th level volume control
Memory	Embedded Memory	Samsung Nand Flash Memory 512MB	
	External Memory	SD Card, 2GB~32GB support	
Power Supply	Rated Voltage	DC 12-24V	
	Adapter	Cigarette power adaptor or Direct power supply from Vehicle	
Dimension	Unit Dimension (LxWxH)/mm	65(W)x71(L)x60(H) / mm	
	Video	Format	H.264
Resolution		VGA (640 x 480)	
FPS		30 fps	
Audio	Format	AAC	
	Bitrate	128kbps	
Recording Info.	Recorded files	Event Video Clip (Overwriting) : Max.50 Manual Video Clip (Overwriting) : Max.20	
	Recording times (30ftp, High Quality)	Continuous/Event/Manual Video clip : Appx. 60 seconds - Pre-Event 15 seconds / Post-Event 15 seconds - If G-sensor triggers when video footage under 15 second, it bring out two video files in event folder	
	File Size (30fps, High quality)	Each Continuous/Event/Manual Video clip : Appx. 28MB	
	Adjust sensitivity	5 level	
	Parking mode	Parking mode recording - recorded in 4 fps Extention recording time by 4 times	
	PC software	OS	Windows98, ME, 2000, XP, VISTA32, and Window 7

<Optional External camera Specficiation>

1.RCAM-11NR (Normal rear camera)

		The lens is intended for use in 1/3 & "1/4" CCD & C-MOS camera.
	Focal Length	3.6mm ±5%
	Relative Aperture	2
	Iris	Fixed
	Image Size	1/3" 1/4"
	Angle Of View	1/3" : 56.8°(V) X 76.8°(H) X 97.2°(D) 1/4" : 42.4°(V) X 56.8°(H) X 71.6°(D)
	Minimum Operating Distance	400mm
	Back Focal Length	5.64mm ±5%
	Flange Back Focal Length	5.43mm ±5%
	Operating Temperature Range	-30℃ ~ +75℃ , Under RH 90%
	Storage Temperature Range	-40℃ ~ +85℃ , Under RH 99%
	Lens	4Component 4Element[All Glass]
	Coatings	Single-layer AR (Glass Lens)

2.RCAM-11IR4 (IR rear camera)

	Picture Elements NTSC&PAL	310K Pixels
	Image Device	1/4" Inch CMOS Sensor
	Total pixels	666(H) X 504(V)
	Image Area	5.6026mm X 4.8588mm
	Scanning	2:1 Interlace
	Sync System	Internal Sync
	TV Video Output	1 [Vp-p] Composite 75Ω unbalanced
	Horizontal Resolution	380TV Lines
	Exposure time Range	1/60s . 20us
	S/N Ratio	More Than 45dB(AGC OFF)
	Dynamic Range	60dB
	Minimum illumination	0.4 Lux(LED ON : 0 Lux)
	Gamma	r = 1.0 typ.
	Lens	Fixed focal lens (STD. 134°)
	Power supply	DC 4.5V ~ 24V(±10%) Input
	Current consumption	Max.70mA(at DC4.5V)/ (Main device+IR LED :200mA)
	Operating Temperature	-20℃ ~ +70℃
	Accessories	Extension Cable : 5M
	Weight	(47)g/ Exclude cable
	Dimension	32 ϕ x 29 (W x D x H, mm)

3.RCAM-11IR8 (IR Rear Camera)

	Pick-up Device	1/4" Sony Super HAD CCD
	Pixels	270K
	Resolution	380 TV - Lines
	Current Consumption	DC 12V, 150mA (Max)
	Operation Voltage	DC12V
	LENS	155°
	Video Out	1.0V p-p composite, 75 ohm
	Cable Length	15 m cable
	S/N Ratio	More Than 42dB
	Operating Temp	-30 ℃ ~ 70 ℃
	Min. illumination	0.1 Lux
	Color	Black / White
	Weight	350 g

MODEL: CARPA-10 (1Channel)		Specification	
 Front  Rear 	Main Chipset (No.)		MV8652
	GPS		Internal 360° GPS intena module
	G-Sensor		Internal 3D G-Sensor (X: Front/Rear Y: Left/Right Z: Up/Down)
	Camera	Sensor	1/4" CCD & CMOS
		Lens	High quality precision lens (1.3MPixel)
		Resolution	640 x 480
		Angle (Front)	96°(V) X 119°(H) X 121°(D)
	Audio	Input Mic	YES
		Output Speaker	YES / Voice information guide. Error auto checking programe
		Silent Mode	YES / 5th level volume control
	Memory	Embedded Memory	Samsung Nand Flash Memory 512MB
		External Memory	SD Card, 2GB~32GB support
	Power Supply	Rated Voltage	DC 12-24V
		Adapter	Cigarette power adaptor or Direct power supply from Vehicle
	Dimension	Unit Dimension (LxWxH)/mm	65(W)x71(L)x60(H) / mm
		Video	Format H.264
	Video	Resolution	VGA (640 x 480)
		FPS	30 fps
		Audio	Format AAC
	Recording Info.	Bitrate	128kbps
		Recorded files	Event Video Clip (Overwriting) : Max.50
			Manual Video Clip (Overwriting) : Max.20
		Recording times (30ftp, High Quality)	Continuous/Event/Manual Video clip : Appx. 60 seconds - Pre-Event 15 seconds / Post-Event 15 seconds - If G-sensor triggers when video footage under 15 second, it bring out two video files in event folder
		File Size (30fps, High quality)	Each Continuous/Event/Manual Video clip : Appx. 18MB
		Adjust sensitivity	User options
		Parking mode	Parking mode recording - recorded in 4 fps Extention recording time by 4 times
	PC software	OS	Windows98, ME, 2000, XP, VISTA32, and Window 7

Terms & Conditions:

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- Valid for quotation : 1 month from the effective date
- MOQ : 1K units(OEM) or petty order
- Delivery term : within 2 weeks
- Warranty period : 12 months from shipment date
- Bundle Accessory : Main unit, Cigar light jack, 4GB SDHC Card(SANDISK), USB adoptor, Cable fitting kit, and User manual,PC Manager,GPS TRACKER Manager
- Payment : L/C at sight or T/T in advance

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MODEL: CARPA-130 (2Channel)		Specification	
 Front  Rear 	Main Chipset (No.)		MV8652
	GPS		Internal 360° GPS intena module
	G-Sensor		Internal 3D G-Sensor (X: Front/Rear Y: Left/Right Z: Up/Down)
	Camera	Sensor	1/4" CCD & CMOS
		Lens	High quality precision lens (1.5MPixel)
		Resolution	640 x 480
		Angle (Front)	83.9°(V) X 103.1°(H) X 121.0°(D)
		Angle (Rear)	96°(V) X 119°(H) X 141°(D)
	Audio	Input Mic	YES
		Output Speaker	YES / Voice information guide. Error auto checking programe
		Silent Mode	YES / 5th level volume control
	Memory	Embedded Memory	Samsung Nand Flash Memory 512MB
		External Memory	SD Card, 2GB~32GB support
	Power Supply	Rated Voltage	DC 12-24V
		Adapter	Cigarette power adaptor or Direct power supply from Vehicle
	Dimension	Unit Dimension (LxWxH)/mm	108(L)x124(W)x25(H) / mm 4.25(L)x4.88(W)x0.98(H) / inch
		Video	Format H.264 Resolution VGA (640 x 480) FPS 30 fps
	Audio	Format	AAC
		Bitrate	128kbps
	Recording Info.	Recorded files	Event Video Clip (Overwriting) : Max.50 Manual Video Clip (Overwriting) : Max.20
		Recording times (30ftp, High Quality)	Continuous/Event/Manual Video clip : Appx. 60 seconds - Pre-Event 15 seconds / Post-Event 15 seconds - If G-sensor triggers when video footage under 15 second, it bring out two video files in event folder
		File Size (30fps, High quality)	Each Continuous/Event/Manual Video clip : Appx. 23MB
		Adjust sensitivity	User options
		Parking mode	Parking mode recording - recorded in 4 fps Extention recording time by 4 times
		PC software	OS Windows98, ME, 2000, XP, VISTA32, and Window 7

Terms & Conditions:

- Price term : FOB INCHEON AIRPORT
- Valid for quotation : 1 month from the effective date
- MOQ : 1K units(OEM) or petty order
- Delivery term : within 2 weeks
- Warranty period : 12 months from shipment date
- Bundle Accessory : Main unit, Cigar light jack, 4GB SDHC Card(SANDISK), USB adoptor, Cable fitting kit, and User manual,PC Manager,GPS TRACKER Manager
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MODEL: CARPA-125 (2Channel)		Specification	
 Front  Rear 			
	Main Chipset (No.)		MV8652
	GPS		Internal 360° GPS intena module
	G-Sensor		Internal 3D G-Sensor (X: Front/Rear Y: Left/Right Z: Up/Down)
	Camera	Sensor	1/4" CCD & CMOS
		Lens	High quality precision lens
		Resolution	640 x 480
		Angle (Front)	83.9°(V) X 103.1°(H) X 121.0°(D)
		Angle (Rear)	96°(V) X 119°(H) X 141°(D)
	Audio	Input Mic	YES
		Output Speaker	YES / Voice information guide. Error auto checking programe
		Silent Mode	YES / 5th level volume control
	Memory	Embedded Memory	Samsung Nand Flash Memory 512MB
		External Memory	SD Card, 2GB–32GB support
	Power Supply	Rated Voltage	DC 12-24V
		Adapter	Cigarette power adaptor or Direct power supply from Vehicle
	Dimension	Unit Dimension (LxWxH)/mm	56(L)x98(W)x25(H) / mm
	Video	Format	H.264
		Resolution	VGA (640 x 480)
		FPS	24 fps
Audio	Format	AAC	
	Bitrate	128kbps	
Recording Info.	Recorded files	Event Video Clip (Overwriting) : Max.50 Manual Video Clip (Overwriting) : Max.20	
	Recording times (30ftp, High Quality)	Continuous/Event/Manual Video clip : Appx. 60 seconds - Pre-Event 15 seconds / Post-Event 15 seconds - If G-sensor triggers when video footage under 15 second, it bring out two video files in event folder	
	File Size (30fps, High quality)	Each Continuous/Event/Manual Video clip : Appx. 23MB	
	Adjust sensitivity	User options	
	Parking mode	Parking mode recording - recorded in 4 fps Extention recording time by 4 times	
PC software	OS	Windows98, ME, 2000, XP, VISTA32, and Window 7	

Terms & Conditions:

- Price term : FOB INCHEON AIRPORT
- Valid for quotation : 1 month from the effective date
- MOQ : 1K units(OEM) or petty order
- Delivery term : within 2 weeks
- Warranty period : 12 months from shipment date
- Bundle Accessory : Main unit, Cigar light jack, 4GB SDHC Card(SANDISK), USB adoptor, Cable fitting kit, and User manual,PC Manager,GPS TRACKER Manager
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MODEL: CARPA-7(1Channel)		Specification	
 		Main Chipset (No.)	
		GPS	
		G-Sensor	
		Camera	
		Sensor	1/4" CCD & CMOS
		Lens	High quality precision lens (0.3MPixel)
		Resolution	640 x 480
		Angle (Front)	96°(V) X 119°(H) X 121°(D)
		Audio	
		Input Mic	YES
		Output Speaker	YES / Voice information guide. Error auto checking programe
		Silent Mode	YES / 5th level volume control
		Memory	
		Embedded Memory	Samsung Nand Flash Memory 512MB
		External Memory	SD Card, 2GB~32GB support
		Power Supply	
		Rated Voltage	DC 12-24V
		Adapter	Cigarette power adaptor or Direct power supply from Vehicle
		Dimension	
		Unit Dimension (LxWxH)/mm	65(W)x71(L)x60(H) / mm
		Video	
		Format	H.264
		Resolution	VGA (640 x 480)
		FPS	30 fps
		Audio	
		Format	AAC
		Bitrate	128kbps
		Recording Info.	
		Recorded files	Event Video Clip (Overwriting) : Max.50 Manual Video Clip (Overwriting) : Max.20
		Recording times (30ftp, High Quality)	Continuous/Event/Manual Video clip : Appx. 60 seconds - Pre-Event 15 seconds / Post-Event 15 seconds - If G-sensor triggers when video footage under 15 second, it bring out two video files in event folder
		File Size (30fps, High quality)	Each Continuous/Event/Manual Video clip : Appx. 18MB
		Adjust sensitivity	User options
		Parking mode	
		PC software	
		OS	Windows98, ME, 2000, XP, VISTA32, and Window 7

Terms & Conditions:

- Price term : FOB INCHEON AIRPORT
- Valid for quotation : 1 month from the effective date
- MOQ : 1K units(OEM) or petty order
- Delivery term : within 2 weeks
- Warranty period : 12 months from shipment date
- Bundle Accessory : Main unit, Cigar light jack, 4GB SDHC Card(SANDISK), USB adoptor, Cable fitting kit, and User manual,PC Manager,GPS TRACKER Manager
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MODEL: CARPA-200 (2Channel)		Specification		
 Front <Optional Rear camera item> <RCAM-11IR9>  <RCAM-11IR4>  Normal Rear cam  IR Rear cam		Main Chipset (No.)		MV8652
		GPS		Optional
		G-Sensor		Optional
		Camera	Sensor	1/4" CCD & CMOS
			Lens	High quality precision lens
			Resolution	640 x 480
			Angle (Front)	83.9°(V) X 103.1°(H) X 121.0°(D)
			Angle (Rear)	96°(V) X 119°(H) X 141°(D)
		Audio	Input Mic	YES
			Output Speaker	YES / Voice information guide. Error auto checking programe
			Silent Mode	YES / 5th level volume control
		Memory	Embedded Memory	Samsung Nand Flash Memory 512MB
			External Memory	SD Card, 2GB~32GB support
		Power Supply	Rated Voltage	DC 12-24V
			Adapter	Cigarette power adaptor or Direct power supply from Vehicle
		Dimension	Unit Dimension (LxWxH)/mm	108(L)x50(W)x32(H) / mm
		Video	Format	H.264
			Resolution	VGA (640 x 480)
			FPS	30 fps
		Audio	Format	AAC
Bitrate	128kbps			
Recording Info.	Recorded files	Event Video Clip (Overwriting) : Max.50 Manual Video Clip (Overwriting) : Max.20		
	Recording times (30ftp, High Quality)	Continuous/Event/Manual Video clip : Appx. 60 seconds - Pre-Event 15 seconds / Post-Event 15 seconds - If G-sensor triggers when video footage under 15 second, it bring out two video files in event folder		
	File Size (30fps, High quality)	Each Continuous/Event/Manual Video clip : Appx. 23MB /Ch		
	Adjust sensitivity	5 level		
	Parking mode	Parking mode recording - recorded in 4 fps Extention recording time by 4 times		
PC software	OS	Windows98, ME, 2000, XP, VISTA32, and Window 7		

<Optional External camera Specficiation>

1.RCAM-11NR (Normal rear camera)

	The lens is intended for use in 1/3 & "1/4" CCD & C-MOS camera.	
	Focal Length	3.6mm ±5%
	Relative Aperture	2
	Iris	Fixed
	Image Size	1/3" 1/4"
	Angle Of View	1/3" : 56.8°(V) X 76.8°(H) X 97.2°(D) 1/4" : 42.4°(V) X 56.8°(H) X 71.6°(D)
	Minimum Operating Distance	400mm
	Back Focal Length	5.64mm ±5%
	Flange Back Focal Length	5.43mm ±5%
	Operating Temperature	-30℃ ~ +75℃ , Under RH 90%
	Storage Temperature	-40℃ ~ +85℃ , Under RH 99%
	Lens Construction	4Component 4Element[All Glass]
	Coatings	Single-layer AR (Glass Lens)

2.RCAM-11IR4 (IR rear camera)

	Picture Elements NTSC&PAL	310K Pixels
	Image Device	1/4" Inch CMOS Sensor
	Total pixels	666(H) X 504(V)
	Image Area	5.6026mm X 4.8588mm
	Scanning	2:1 Interlace
	Sync System	Internal Sync
	TV Video Output	1 [Vp-p] Composite 75Ω unbalanced
	Horizontal Resolution	380TV Lines
	Exposure time Range	1/60s . 20us
	S/N Ratio	More Than 45dB(AGC OFF)
	Dynamic Range	60dB
	Minimum illumination	0.4 Lux(LED ON : 0 Lux)
	Gamma	r = 1.0 typ.
	Lens	Fixed focal lens (STD. 134°)
	Power supply	DC 4.5V ~ 24V(±10%) Input
	Current consumption	Max.70mA(at DC4.5V)/ (Main device+IR LED :200mA)
	Operating Temperature	-20℃ ~ +70℃
	Accessories	Extension Cable : 5M
	Weight	(47)g/ Exclude cable
	Dimension	32 ϕ x 29 (W x D x H, mm)

3.RCAM-11IR8 (IR Rear Camera)

	Pick-up Device	1/4" Sony Super HAD CCD
	Pixels	270K
	Resolution	380 TV - Lines
	Current Consumption	DC 12V, 150mA (Max)
	Operation Voltage	DC12V
	LENS	155°
	Video Out	1.0V p-p composite, 75 ohm
	Cable Length	15 m cable
	S/N Ratio	More Than 42dB
	Operating Temp	-30 ℃ ~ 70 ℃
	Min. illumination	0.1 Lux
	Color	Black / White
	Weight	350 g

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Graphic User Interface



PC Manager

Functions

Playback / Stop / Pause / Playback by frame / Next file / Previous file
Volume Control
Playback speed control
G sensing data analyzer
Preview
Google map synchronizer
Still image capture : MP4 format
Print Menu

Contents of File List
Event : Video clip triggered by Event/Shock/Impact
Manual : Video clip triggered by Manual button
Continuous : Continuous Video clip not related with a trigger

Set up menu

Time/Timezone
DST-> Summer Time
Vehicle Plate Number
G sensor sensitivity 5 level
PC Manager Running Password
Factory setting
Windows98, ME, 2000, XP, VISTA32, and Window 7

OS

GPS Tracking Software

GPS Tracker Manager Content

1. Driving History(Time and Distance)
2. Stop and Parking time
3. Sudden acceleration info.
4. Sudden reduced speed info.
5. Driving report
6. ECO driving point report
7. All data Convert to Excel file format.
8. PC Printing
9. Path finder of Vehicle
10. About 20days's data report
11. language support

