



For technical support please contact us at support@amacam.net

Please read this manual carefully before using your camera, and keep it for future reference.

The dash camere should be set up before driving. Concentration should always be maintained on the task of driving. Let the dash camera record accidents caused by others not by yourself.

PACKAGE CONTENTS

- Camera Note that the camera requires a micro SD memory card, which is not supplied with the camera. - (See Section 4.1 Below)
- Mounting Bracket for car windscreen
- Charging lead for use in car (Car Cigarette lighter to Mini-USB cable) - Connection lead for computer (Mini
- USB to USB Cable) User Manual

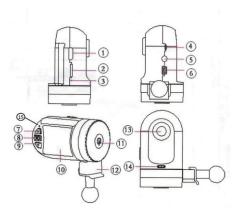


The Amacam AM-M80 camera is designed primarily as a small video camera for mounting on the front or rear windscreen of a car. This is for the purpose of recording the car movements and externals activities, and would be of use in providing evidence for Insurance purposes. It is designed in this mode to start recording as soon as the car ignition is switched on.

In addition it can be used for short periods hand held outside the car, but the battery life in this instance is limited to approximately 10 minutes of recording before being reconnected to the car or a charger for recharging...

The camera may also be used to take still photos as a manual operation.

The video or still pictures recorded can be reviewed on the inbuilt small screen, or the camera can be connected to a PC computer for review of all photos and



15. Indicator Light

Blue- power on

Red – battery charging

1.	HDMI Slot		Screen Display
2.	Micro SD Card Slot	11.	Power Button
3.	Reset	12.	Mounting Bracket
4.	Microphone	13.	Camera lens
5.	AV Out	14.	Speaker

First Set Up

Before the camera is used the following actions must be taken. This should be read in conjunction with the Menu Options description in this User Manual.

The number references below refer to the Diagram and Key in Section 3 of this user manual.

- Switch camera on by pressing Power button (11) once.
- Set up date and time in settings (See Section 8 below).
- Set up Loop recording time. The default is set to 3 minutes. (See Section 6 below)
- Insert a Micro SD card into slot (2). Good quality. Speed rating minimum Class 4.
- 4GB, 8GB, 16GB or 32GB. Camera will now operate in default settings mode.

If problems are experienced setting up the camera from the SET UP menu, it is suggested that the SD card is removed temporarily during the set up and then replaced after Set up is completed.

- The Power button (11) is used to switch the camera on (in manual operation)
- switch between menu pages
- switch the camera off Care should be taken to press the button for the correct amount of time.

Switch on (from Off) - one press Switch off – Press and hold for approx. 3 seconds until camera switches off.

One press (click) of the Power button (11) will result in the

To exit the menu, press the Power button

(11) twice (from VIDEO Menu) or one

more time (from SET UP menu) to return

VIDEO menu

menu

- mini USB socket (6) on the camera to
- Alternatively the power cable can be

In car operation

the car starts to travel. Recording will stop when the car ignition is switched off.

- Switch power on by pressing Power button (11) once.
- Whilst recording, To Zoom in press Up button (7)

To take still pictures change to Photo mode

- · Fix the suction operated mounting bracket to the car windscreen, usually this is done behind the rear view mirror. The mounting bracket on the camera
- between 0 and 90°, to accommodate the slope angle of the car windscreen. · Connect the car charging lead from the
- the Cigarette lighter in the car.
- hard wired in, but this requires an auto-electrician to carry out the wiring work

Recording

- Hand held Manual operation Video recording (Video camera depicted in top left)

Mounting in the Car

- (12) can be rotated to any position
- Cables for this are not provided.

The camera will start recording automatically when the ignition is switched on and

- Camera will turn on in Video mode Press OK (8) to start recording. Red indicator light on screen will start to
- Press OK (8) to stop recording.

To Zoom out - press Down button (9)

Photo Mode. (Still camera depicted on top left corner)

From Video mode, Press the OK button (8) and hold for 2 seconds.

To Zoom out - press Down button (9). To take picture. Press the OK button (8) for 1 second omly (Warning. pressing for a longer period will bring up the menu options)

. UP Button

9. DOWN Button

8. OK Button

Play back or review of the video files and photos may be carried out either on the camera or by connecting the camera to a computer.

To review on the computer

see Section 10.4 (Connecting to the computer) below.

computer.

To review files on the camera Turn the camera on by pressing the Power button (11)

Protected Files (See section 10.3) can only be deleted using a connection to the

- Change to Photo Mode (Press the OK button (8) and hold for 2 seconds .)
- Press the OK button (8) and hold for 2 seconds Use Up button (7) or Down button (9) to scroll between the various video
- When desired video file is selected use OK button (8) to start video playing
- . To fast scroll between files, press and hold the Up (7) or Down (9) button until the desired file is reached.
- The Name or number of the file is shown in top right hand corner of screen. Resolution, date and time are also indicated on screen.

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This senses an impact, and then protects

that file to prevent it being overwritten by

loop recording.



To exit the menu, press the Power button (11) twice (from PLAYBACK Menu) or one more time (from SET UP menu)

USB Mode When connected to the computer the USB mode is displayed

Video Mode

Setup Menu Video Menu

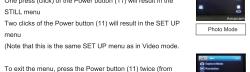
to the Video mode

Various menu pages are obtained by pressing the Power button (11). Different

menus are obtained depending on the operating mode of the camera at the time.

In Photo Mode One press (click) of the Power button (11) will result in the Two clicks of the Power button (11) will result in the SET UP (Note that this is the same SET UP menu as in Video mode.

STILL Menu) or one more time (from SET UP menu) to return to



In Playback Mode

One press (click) of the Power button (11) will result in Two clicks of the Power button (11) will result in the SET UP

(Note that this is the same SET UP menu as in Video mode.)

Automatically. No other menus can be accessed whilst the

USB cable is connected between camera and computer

stop recording when the memory card is full.

Item	Sub Menu Choice	Default Setting	Function/Comment		
Resolution	720P 1280x720	720HD	Higher resolution will increase file sizes		
	WVGA 720x480		and recording time on SD card but will		
	VGA 640X480		enable number plates to be more easily		
	QVGA 320x240		read.		
Loop	Off	3 mins	Determines the size of files into which the		
Recording	3 mins		recording is divided. When the memory		
	5 mins		card is full and when loop recording is on,		
			the files are progressively recorded over,		
			one file at a time.		
			When loop recording is off, the camera will		

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3	Item	Sub Menu Choice	Default Setting	Function/Comment
	Motion	Off	Off	This applies only when the camera battery
Kinned Since I No. 4 open Onco (P II)	Detection	On		is being charged (by being connected to
Amacam				the in car charger).
Playback Mode				When 'On' is selected the camera will start
				recording when motion of the camera or
				the image is detected.
© Colete				
	Date	Off	On	Puts the date/time stamp on the Video
Amacam	Stamp	On		recording
	Record	Off	On	Records Audio as well as video material.

G Sensor High

Item	Sub Menu Choice	Default Setting	Function/Comment
Capture	Single	Single	This is a delay timer for taking photo
mode	2 seconds		after pressing OK.
	5 seconds		
	10 seconds		
Resolution	12M 4032 x 3024	12M	This gives the resolution as the number
	10M 3648 x 2736	4032 x 3024	of pixels in the picture
	8M 3264 x 2448		
	5M 2592 x 1944		
	3M 2048 x 1636		
	2M 1920 x 1080		
	VGA 640 x 480		
	1.3M 1280 x 960		
Quality	Fine	Normal	This refer to the quality of the STILL
	Normal		photos
	Economy		

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Item	Sub Menu Choice	Default Setting	Function/Comment
Sharpness	Strong		This sharpens or soften the contours
	Normal		between tones.
	Soft		
White	Auto	Auto	This adjusts the color tones according
balance	Daylight		to the ambient light conditions.
	Cloudy		
	Tungsten		
	Fluorescent		
Color	Color	Color	
	Black & White		
	Sepia		
ISO	Auto	Auto	ISO setting represents the sensitivity to
	100		light. High ISO settings are more
	200		sensitive and useful when in dark or
	400		gloomy light. However the images are
			more noisy, i.e. they show more grain .
			Low ISO settings are used when there is
			plenty of light. The pictures will be less
			noisy, i.e. less grainy and sharper.
Exposure	- 1/3	0	This will adjust the exposure setting
	0		from that sensed by the camera.
	+ 1/3		
	+ 2/3		
Face	Off	Face	Face Detection detects the faces of
detection	Face detection	detection	your subject and adjusts the all the
	Smile detection		automatic settings to this face.
			Smile detection will release the shutter
			when a smile is detected on the face
Quick	Off	Off	This sets the time that the picture taker
Review	2 seconds		is shown after release of shutter,
	5 seconds		before returning to photo mode.
Date	Off	Date/Time	This only switches the date stamp on
stamp	Date		or off. The date must be set in the
	Date/Time		SET UP menu.

Note. Each selection can be made by using the UP(7) and DOWN(9) buttons and then fixed and move to next criterion with the OK Button (11)

Note. This menu is only available if there is a SD card in the camera. If there is no SD card, the message No File will appear on screen.

Item 15 on the camera is the indicator LED. This will shine BLUE when the

will not shine at all when the camera is fully charged, or disconnected from the

The internal battery is charged by connecting the camera through the USB

USB 2.0 socket on a personal computer using the cable supplied

The mains frequency setting in the SET UP menu must be set to the correct

Files may be protected. This will prevent them from being deleted on the camera.

Thus when loop recording is being used, protected files will NOT be overwritten.

Files are protected automatically when the G sensor senses an acceleration of

Files can be protected manually by making a short press on the Power button

Protected files cannot be unprotected. They cannot be deleted on the camera,

but can only be deleted by connecting the camera to a computer. See below.

For further technical Support please e-mail to support@amacam.net stating

Press the "POWER" button twice to enter "Set Up Menu" Select "Date/Time"

number with the OK Button. The date style can be set as DD:MM:YY , MM:DD:YY, or

Each figure can be set using the "UP" and "DOWN" buttons and then fixed and move to next

Press the "POWER" button once to enter "Video Menu" Then select "Loop Recording"

and select either - 3 Minutes - 5 Minutes. When Loop Recording is on, the older video

files are over written (unless protected). So the memory card will never be full and stop

recording. However, when Loop Recording is off, the camera will stop recording when the

(11) during recording. All protected files will display a small key on the screen to

more than 4G. Thus if the car is involved in a collision the file will be

External Power Supply - Charging the Battery

Car lighter socket using the cable supplied

frequency for the mains supply used.

connection socket (6) to any of the following power sources.

240V or 110V Mains to USB adapter plug (Not supplied).

power source.

Protecting Files

automatically protected

Operating temp. range -10°C to 60°C storage temperature -20°C to 70°C

Name and e-mail address

Camera model

Quick Reference Guide

Date & Time

YY:MM:DD

Loop Recording

memory card is full

Nature of your proble

camera is switched on. When the battery is charging this light will shine RED, and

The camera can be connected to a computer using the Mini USB/USB cable supplied to a USB 2.0 socket on your computer. When this connection is made,

Immediately a menu is displayed listing

the camera cannot be used. Mass storage

> PC Camera Scroll between the two settings using UP(7) and DOWN(9) buttons and select with OK button (8)

Mass Storage

On selecting 'Mass Storage', a blue screen with "Mass Storage" will appear on the camera screen.

In Windows Explorer on your computer, under "My Computer" select "Removable disc" and then select "DCIM" directory. This will then list all the sub-directories and files stored on the SD card in the camera.

Still Photos are stored as .JPG files

Video clips are stores as .AVI files

Note that there is no indication in this directory whether the files are protected, and all files may be deleted. This is the only way that protected files can be deleted.

From here files may be downloaded to your computer or deleted completely.

On selecting 'PC Camera', the device will act as a camera for your PC and can be used with other applications, such as Skype, which may require a webcam to be connected to the computer.

Please note that the camera will not record on the SD card when this function is used and this function may not be effective in some computer systems.

2. Make sure that the windscreen is completely dry.

3. Ensure that the suction cup is dry and clean.

4. Pull the suction lever fully back so that the cup is almost flat. 5. Place the suction cup firmly on the windscreen.

7. Full suction should now be attained and the mount is firmly secured

To save a video file whilst the camera is recording, press the "POWER" button once and that will protect that video file. Remember that the next video file will not be saved unless you press the "POWER" button again. Protected files will not be over written and can only be

Or contact us through the website at www.amacam.net There are two methods to reset the camera to the factory default settings

1. Insert a small pin or paper-clip into the Reset hole until the internal button 2. Go to the "Default Settings" location on the SET UP Menu, select OK and

Format The Memory Card Press the "POWER" button twice to enter "Set Up Menu" Select "Format" Select "SD

Firmware Version & Update Press the "POWER" button twice to enter "Set Up Menu" Select Version, Check the

Install The Suction Cup Mount Please follow these instructions: 1. Clean the windscreen with a non greasy glass cleaning solvent.

version number. The latest version can be downloaded here>>> www.amacam.net/support/firmware-update

SET UP MENU (All Modes)

	CHOICE	Setting	
Date/Time	Year : Month :Day	None – to be	Each figure can be set using the UP(7)
	H:M:S	set manually	and DOWN(9) buttons and then fixed
	DD:MM:YY(Date		and move to next number with the OK
	Style)		Button(11).
			The date style can be set as
			DD:MM:YY , MM:DD:YY, or YY:MM:DD
Веер	Off	On	To enable a beep sound when any
Sound	On		button is pressed
Language	English	English	All displays in the selected language
	German		
	French		
	Spanish		
	Portuguese		
	Italian		
	Chinese		
	Korean		
	Japanese		
	Russian		
Frequency	50 Hz	60 Hz	This is only relevant when charging
	60 Hz		from AC Mains. 60 Hz is normal in
			American continent, Caribbean and
			some Asian countries. 50 Hz is
			normal in Europe and rest of world.
			Please check in your location.
TV Mode	PAL	NTSC	This should be set to the Television
	NTSC		encoding system in your country
Default	Cancel	Cancel	This will return all menu's to the default
Settings	OK		settings.

Item Sub Menu Default Function/Comment

This will rotate the image through 180 to allow the camera to be mounted upside down in the car if preferred

Check at

www.amacam camera

Function/Comment

This sets the time when the screen

saver switches on

This is the version of the software in the

Note The camera will retain the last setting input when the camera is switched off.

1 minute

Screen

Savers

Item	Menu Choice	Sub menu choice	Function/Comment
Delete	Delete	Erase this?	For this item, use UP(7) and DOWN(9) buttons to
	Current	Cancel	choose between 'Delete Current' image and 'Delete
		ок	All' files.
			If 'Delete Current' is chosen, confirmation is requeste
			with 'Erase this?' 'Cancel' or 'OK' should be
			selected with UP(7) and DOWN(9) buttons, and
			confirmed with OK(8) button.
			If Delete All is chosen there is no confirmation
			requested, all pictures will be deleted immediately.
	Delete All		Important Note.
			Protected files will NOT be deleted using this function
Item	Menu Choice	Sub menu choice	Function/Comment
Format	SD Card	All date will	This is used to format new SD cards and will result in
		be deleted.	all data on the card being deleted.
		Cancel	
		Cancel OK	

a. Using the mini HDMI out socket (1) on the camera. (The cable for this is not

(This cable is not supplied with the camera)

b. Using the 3.5 mm AV out socket (5) by using a suitable cable adaptor as illustrated

a. Insert a small pin or paper-clip into the Reset hole (3) until the internal button has been depressed.

press the OK button (8)

респи	cation	
	Model	Amacam AM-M80
	Size	70 x 40 x 40 mm
	Weight	55.2 gms
	Processor	NT96220 Chipset
	Image Sensor, Pixels	1280x720, 720x480, 640x480,320x240
	Viewing Angle	120 degrees
	LCD Screen	1.5" TFT Display
	Video Format	AVI - 24 fps
	Photo format	JPEG
	Storage	Micro SD Card, Class 4 or above, - 4 GB, 8 GB, 16 GB or 32 GB. (Not included)
	USB Interface	USB2.0
	AV Out	3.5 mm Mini jack or HDMI – NTSC or PAL format

6. Push the suction cup lever towards the windscreen.

then press the OK button.

To keep up to date with the latest Firmware. Please ensure that you register your

Amacam AM-M80 here>>> www.amacam.net/product-registration

Connecting to the TV

The camera can be connected to a TV to allow the files to be viewed on the TV There are two ways to connect this.

supplied with the camera)

There are two methods to reset the camera to the factory default settings.

b. Go to the "Default Settings" location on the SET UP Menu, select OK and then

pecine	ation	
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	Video Format	AVI - 24 fps
	Photo format	JPEG
	Storage	Micro SD Card, Class 4 or above, - 4 GB, 8 GB, 16 GB or 3: GB. (Not included)
	USB Interface	USB2.0
	AV Out	3.5 mm Mini jack or HDMI – NTSC or PAL format
	Battery capacity	250 mAH (approx.15 mins recording)