

DIGITAL RECORDER & CAMERA SYSTEM

For Motorcycle / Powersport Use



Thank you for purchasing the MotoComm DSR-100. The DSR-100 is designed to provide motorcycle and powersport enthusiasts with the most complete video and audio solution at an affordable price. With proper care and use, your DSR-100 will provide you with years of enjoyment. Please read the entire instruction manual before using your DSR-100. If at any time you have questions regarding this product please contact Magnum International, the manufacturer of MotoComm products. Enjoy your DSR-100 and ride safe.

- The MotoComm Staff

WARNINGS AND CAUTIONS

- In some states it is illegal to have speakers inside a helmet. Please check with your state and local laws before using this product.
- Do not attempt to operate any controls on the DSR-100 or other accessories while in motion on a motorcycle or vehicle. Never take your attention away from the safe operation of the motorcycle or vehicle or the roadway.
- The installation and mounting of the DSR-100 should not interfere with the safe and normal operation of the motorcycle or vehicle. Improper installations that interfere with the operation of the motorcycle or vehicle may lead to damage of property, injury and/or loss of life.
- Make sure to install all cables so that they remain secure whether connected together or not. Never install a cable that is loose or hangs down from the motorcycle or vehicle, or has the potential to hang down if it becomes disconnected.
- Do not attempt to adjust or mount the DSR-100 camera, headset, controls, or any other part of the system while operating a motorcycle or vehicle. Attempting to adjust or mount any part of the DSR-100 while operating a motorcycle or vehicle may lead to damage of property, injury and/or loss of life.
- Do not raise the speaker volume so that it interferes with the hearing of traffic and other external noises.
- Install and operate the DSR-100 according to the instructions. Improper installations and use may lead to damage of property, injury and/or loss of life.
- Do not put excessive force or strain on the cables or other components of the DSR-100.
- By purchasing and/or using this product you are agreeing that MotoComm and Magnum International and its subsidiaries are not liable or responsible for any accidents, property damage, injuries, or fatalities, that may or may not be caused, directly or indirectly, by use of any of its products. If you do not accept this agreement, please return the purchased item, unused and in new condition, to the place of purchase.

LIMITED WARRANTY

Magnum International warrants that this product is free from defects in materials and workmanship under normal use and conditions for a period of one (1) year from the date of original purchase. This warranty is limited to the original purchaser of the product and is not transferable. Any implied warranties are limited to one (1) year. This warranty does not cover damage which results from modification, accident, misuse, abuse, fire, flood, lightning or other acts of nature or damage resulting from repairs or alterations performed other than by Magnum International. This warranty gives you specific legal rights, and you may also have other rights, which vary, from state to state.

Thank you for purchasing the DSR-100 Digital Recorder and Camera System. The DSR-100 is a complete, all-inclusive camera and digital recorder system designed with the motorcycle/powersport rider in mind.

Please make sure to read the entire instruction manual before operation.

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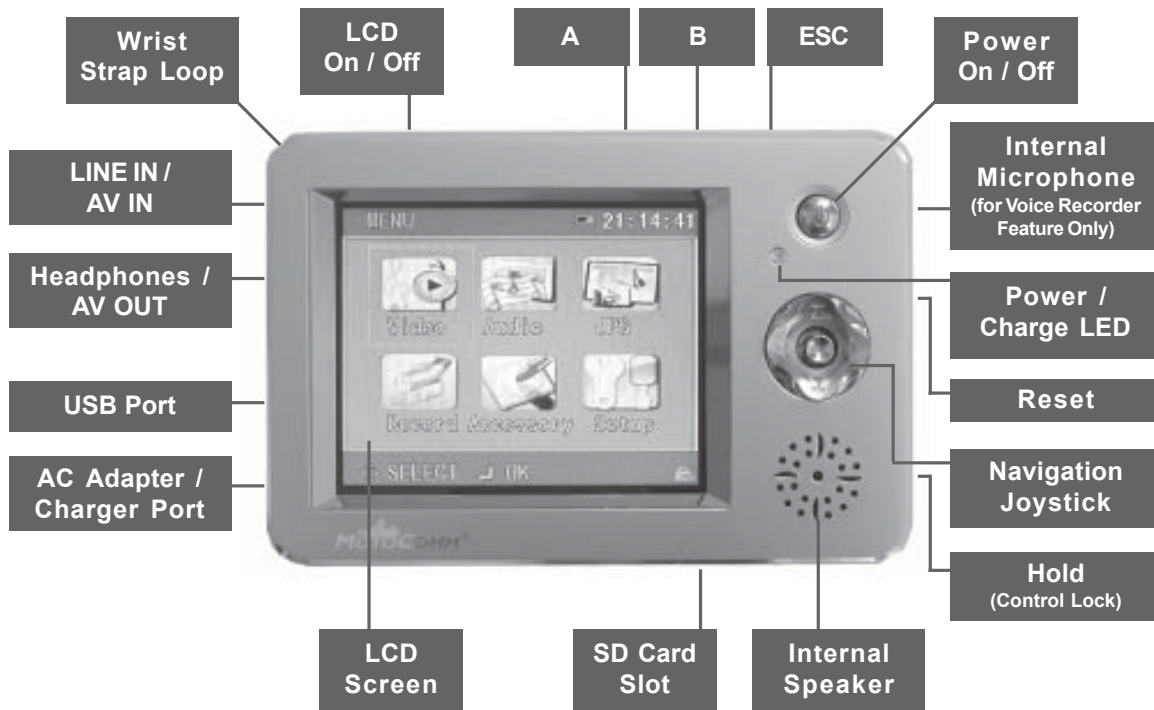
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The DSR-100 includes many components. Please review the list below and make sure that your system includes all items. If any component of the system is missing please contact MotoComm at 1-877-624-6869 (toll-free) or by email at info@motocomm.com.

Qty.	Part Number	Description
1	DSR-CM81	Helmet Camera
1	DSR-7680	Digital Recorder/Playback Unit
1	DSR-MIC-1	Remote Microphone
1	DSR-BH-8AA	Battery Holder
1	MT-40-1	Stereo Helmet Speakers
1	MT-VX9	Music Adapter Cable for Helmet Speakers
1	DSR-BM-1	Pedestal Ball Camera Mount
1	DSR-UM-1	Universal Camera Mount
1	DSR-JUNC-1	4-Way Junction Cable
1	EXT-6	Coiled Extension Cable for Camera
1	EXT-6-180CM-S	6' Straight Extension Cable for Camera
1	EXT-4	Coiled Extension Cable for Microphone
1	EXT-4-180CM-S	6' Straight Extension Cable for Microphone
1	DSR-12VDC-180CM	6' 12VDC Power Cord with Fuse
1	DSR-VAC-1	Video/Audio Cable
1	DSR-3.5S-1	3.5mm Stereo Patch Cable
1	DSR-USB-1	USB Cable
1	DSR-EPS-1	Earphone Speaker Headset
1	DSR-WS-1	Wrist Strap for DSR-7680
1	DSR-AC-1	AC Adapter/Charger for DSR-7680
1	DSR-VP-1	Vinyl Pouch for DSR-7680
1	ACC-1	Mounting Accessories for MT-40-1 Speakers
3	DSR-SM4	Screw-Down Mounting Base for Camera
3	DSR-RT675	Medium Cable Tie for DSR-SM4
3	DSR-RT1100	Large Cable Tie for DSR-SM4
1	DSR-FOAM	Adhesive-Backed Foam Cushion for DSR-UM-1
1	DSR-PB306	Plastic Carrying Case

All parts are available separately.

DSR-7680 Unit Controls



LCD On / Off Control - Turns LCD screen on and off. Turn LCD screen off whenever possible to conserve battery life.

A and B Controls - Multifunction control buttons. See on-screen instructions for control function from menu to menu.

ESC Control - Returns you to previous menu.

Power On / Off - Push momentarily to turn on. Push and hold for 2 seconds to turn off.

Reset - Resets unit's CPU (unit will turn off after reset). Use if unit malfunctions.

Navigation Joystick - 5-way, multifunction control for navigating menus and selecting functions. Joystick moves up, down, left, right, and push-in (select).

Hold - Slide switch up to lock all controls (except for power on/off). Lock icon in lower right corner of LCD screen with indicate hold status.

All other called out controls, ports, etc. are covered in following chapters.

DSR-7680 Battery Charging

The DSR-7680 features an internal 1800mAh Lithium battery pack. With a full charge the battery pack will operate the DSR-7680 for approx. 6 hours with the LCD screen ON, and approx. 8 hours with the LCD screen OFF.

IMPORTANT: Fully charge the DSR-7680 battery prior to use.

To charge the DSR-7680...



Insert the DSR-AC-1 into a standard 110V AC wall outlet.

With the DSR-7680 OFF, insert the DSR-AC-1 DC power plug into the DSR-7680 AC Adapter / Charger Port.

The Power/Charge LED will be solid green while battery is charging.

The Power/Charge LED will flash green when battery is full.

DSR-7680 Setup Menu

The DSR-7680 Setup menu provides control over the basic functions of the unit. It is a good idea to become familiar with the Setup menu and its functions.

To access the Setup menu...

- (1) Turn ON DSR-7680.
- (2) Use the joystick control to highlight and select (push in on joystick) the **Setup** menu.

Time Sub-Menu - Sets Date and Time

- (1) Select **Time** sub-menu. To back out of this sub-menu and return to the Setup menu, push the **ESC** button.
- (2) Push in joystick control to highlight year. Move the joystick up and down to select correct year.
- (3) Move the joystick right to highlight the month. Move the joystick up and down to select correct month.
- (4) Move the joystick right to highlight the day. Move the joystick up and down to select correct day.
- (5) Move the joystick right to highlight the hour (24 hour time). Move the joystick up and down to select correct hour.
- (6) Move the joystick right to highlight the minute. Move the joystick up and down to select correct minute.
- (7) Move the joystick right to highlight the second. Move the joystick up and down to select correct second.
- (8) Push the joystick in to save date and time settings. The unit will automatically return you to the **Setup** menu.

Speaker Sub-Menu - Turns On/Off Internal Speaker

- (1) Select **Speaker** sub-menu. To back out of this sub-menu and return to the Setup menu, push the **ESC** button.
- (2) Move joystick up and down to select **OFF** or **ON** speaker setting.
- (3) Push in joystick to select setting. The unit will automatically return you to the **Setup** menu.
- (4) You will need to turn off the internal speaker for the following situations:
 - (a) To use the included earphones or helmet speakers.
 - (b) When recording video - to avoid potential feedback interference between the remote microphone and internal speaker.

Language Sub-Menu - Selects Menu Language

- (1) Select Language sub-menu. To back out of this sub-menu and return to the Setup menu, push the **ESC** button.
- (2) Move joystick up and down to select English or Chinese language.
- (3) Push in joystick to select language. The unit will automatically return you to the **Setup** menu.

Storage Sub-Menu - Select Between On-Board Memory and SD Card

- (1) Select **Storage** sub-menu. To back out of this sub-menu and return to the Setup menu, push the **ESC** button.
- (2) Move joystick up and down to select Nandflash (on-board memory) or Card (SD card).
- (3) Push in joystick to select the storage that you want to access. The unit will automatically return you to the **Setup** menu.

TV_out Sub-Menu - Selects NTSC / PAL Output Setting

- (1) The **TV_out** sub-menu settings are only used when playing back a recorded video directly to a television (using the DSR-VAC-1 cable).
IMPORTANT: The DSR-VAC-1 cable MUST be connected to both the DSR-7680 and television before using the TV_out commands.
- (2) Select **TV_out** sub-menu. To back out of this sub-menu and return to the Setup menu, push the **ESC** button.
- (3) Move joystick up and down to select **Tv NTSC** (for USA), **Tv PAL** (for Europe), or **Tv OFF** to keep DSR-7680 screen active.
- (4) Push in joystick to select the output setting that you want. The DSR-7680 screen will turn off and the menu will be shown on the television - allowing you to continue to operate the DSR-7680.

Default Sub-Menu - Resets Menus to Factory Default Settings

- (1) Select **Default** sub-menu. To back out of this sub-menu and return to the Setup menu, push the **ESC** button.
- (2) Move joystick up and down to select No (keep current settings) or Yes (factory settings).
- (3) Push in joystick to select. The unit will automatically return you to the **Setup** menu.

Auto Power Off Sub-Menu - Sets the Auto Power Off Feature

- (1) Select **Auto Power Off** sub-menu. To back out of this sub-menu and return to the Setup menu, push the **ESC** button.
- (2) Move joystick up and down to select Never, 3 min, 15 min, or 30 min to select when the DSR-7680 will automatically turn itself off.
- (3) Push in joystick to select. The unit will automatically return you to the **Setup** menu.
- (4) For most use, it is a good idea to select Never - otherwise the DSR-7680 may turn off during a recording or ride.

Format Storage Sub-Menu - Erases and Formats Storage

- (1) Select **Format Storage** sub-menu. To back out of this sub-menu and return to the Setup menu, push the **ESC** button.
- (2) Move joystick up and down to select either the Nandflash (on-board memory) or Card (SD card).
- (3) To erase all saved items and format the storage device, push in joystick to select. The unit will automatically return you to the **Setup** menu.

DSR-7680 Accessory Menu

The DSR-7680 Accessory menu includes 2 games, a calendar, and a memory used meter.

To access the Accessory menu...

- (1) Turn ON DSR-7680.
- (2) Use the joystick control to highlight and select (push in on joystick) the **Accessory** menu.

Memory Sub-Menu - Shows Percentage of Memory Used

- (1) Select **Memory** sub-menu. To back out of this sub-menu and return to the Setup menu, push the **ESC** button.
- (2) Will show you percentage of memory used for whichever storage device has been selected in the Setup menu / Storage sub-menu.

Calendar Sub-Menu - It's a Calendar!

- (1) Select **Calendar** sub-menu. To back out of this sub-menu and return to the Setup menu, push the **ESC** button.
- (2) Nothing exciting here. Just a calendar.

Snake Game - Classic Snake Game

- (1) Select **Snake** game. To back out of this game and return to the Accessory menu, push the **ESC** button.
- (2) To start game, push in on joystick control.
- (3) Use the joystick to move your snake up, down, left and right.
- (4) During game play, push in on the joystick control to pause the game.
- (5) The object of the game is to move your snake around the field and intersect your blue square the yellow square without touching the edges of the screen. Each yellow square you get your tail will grow.
- (6) Don't play this game. Go ride!

Russian Game - Classic Russian Block Game

- (1) Select **Russian** game. To back out of this game and return to the Accessory menu, push the **ESC** button.
- (2) To start game, push in on joystick control.
- (3) Use the joystick to move the falling blocks left and right, and up to rotate the block clockwise.
- (4) During game play, push in on the joystick control to pause the game.
- (5) The object of the game is to...blah, blah, blah. GO RIDE!

SD Cards

The DSR-7680 will accept up to 2GB SD cards.



The SD card is inserted into the DSR-7680 upside down, or with the card contacts facing up and inserted as shown.

A small icon in the shape of an SD card will appear on the DSR-7680 screen when the card is active.

Slowly push the SD card into the slot until it locks into place. To eject the SD card, push the card in slightly until it releases from the slot.

Connector Information

MotoComm's mini DIN connectors feature a weatherproof molding. This weatherproof molding is designed for a tight fit. When mating these connectors for the first time, it **WILL BE DIFFICULT!** Take extra care in lining up the arrows on the connectors and slowly (but firmly!) push the connectors together. It is a good idea to leave the plugs connected for several hours. This will help 'mold' the connectors together and make for an ideal fit. Subsequent connections will not be as difficult.



Your DSR-100 comes with everything you need (and more!) to shoot and record video with audio. Although there are many possible configurations, all start with the same basic setup. Use the provided information as a starting point for your custom configuration and installation!

DSR-100 Basic Setup for Video Recording

To connect the basic components for video recording...



Insert the DSR-JUNC-1 4-contact 3.5mm plug into the LINE IN jack on the DSR-7680 unit.

Connect the DSR-JUNC-1 4-pin mini DIN connector to the mating 4-pin connector on the DSR-MIC-1 Remote Microphone. There are 2 different 4-pin mini DIN extension cables included for the remote microphone connection.



Connect the DSR-JUNC-1 6-pin mini DIN connector to the mating 6-pin connector on the DSR-CM81 Camera. There are 2 different 6-pin mini DIN extension cables included for the camera connection.

Insert the DC power plug from either the DSR-BH-8AA Battery Pack or the DSR-12VDC-180CM Power Cable into the mating DC power jack on the DSR-JUNC-1.

TIP: Use the above basic wiring information as the starting point for any installation. The camera and remote microphone mounting locations will determine which, if any, of the extension cables will be used in your install. When mapping out your install, keep in mind that you will want to protect the DSR-7680 unit from the elements, while still being able to easily access it.

Recording a Video

Below are the steps required to record a video. These instructions are being provided now because several of the following pages will require you to be familiar with the operation of the DSR-7680. Please refer back to these instructions at the end of this chapter.



Turn on DSR-7680 and make sure that the camera and remote microphone have power.

With the LCD in camera view, but not yet recording, rotate the camera in the mount so that your horizon is correct.

Use joystick to select the **Record** menu and **AV In** setting. The DSR-7680 screen will switch to camera view.

Test the remote microphone by speaking into it and listening for the audio through the internal speaker. The internal speaker must be turned on to make this test. After confirming that the remote microphone is active, turn off the internal speaker and return to the camera view screen.

In the camera view screen the DSR-100 is also a rearview camera system.

To start recording press the B button. To stop recording press in the joystick control. To return to Record menu, press the ESC button.

To take a digital still photograph, press the A button (SNAP) while in the camera view screen. Digital photos are stored as JPEG files in the **JPG** menu.

DSR-CM81 Camera Setup

The DSR-CM81 focus is set at the factory, and the camera should be correctly focused out of the box. However, if you want to change the focus of the camera, or find in the future that it needs to be adjusted, follow these steps...



Connect the DSR-100 components in the basic setup. Turn on the DSR-7680 and get to the LCD camera view. You will use the LCD camera view to focus the camera.



Unscrew the lens cover from the camera body. Note that there is a rubber o-ring that creates a weatherproof seal between the lens cover and the lens body.

Loosen the small set screw so that the camera lens can be rotated and focused.



Aim the camera at objects in the near field and far field. Carefully turn the camera lens clockwise or counterclockwise, while monitoring the DSR-7680 screen, to focus.

Carefully tighten-down the set screw and screw on the camera lens cover. The lens cover needs to be fairly tight so that the rubber o-ring creates a proper seal.

DSR-MIC-1 Remote Microphone Installation

The DSR-MIC-1 Remote Microphone features an adhesive-backed hook-and-loop mounting tape that can be used to secure the microphone to the bike.

To mount the DSR-MIC-1...



Peel off the protective sheet from the adhesive-backed hook-and-loop material. Stick the DSR-MIC-1 to the desired location.

To achieve the most true-to-life audio, the DSR-MIC-1 is a full audio spectrum microphone. This means that the DSR-MIC-1 needs to be protected from wind.

DSR-BH-8AA Battery Holder Setup

The DSR-BH-8AA holds 8 AA batteries and is the 1st option to supply power to the remote microphone and camera. With new, fresh alkaline batteries, the DSR-BH-8AA will run the microphone and camera for approx. 12 hours continuous use.

To install the DSR-BH-8AA...



Insert 8 AA batteries into the DSR-BH-8AA as shown on the battery compartments.

TIP: While riding the battery holder should be stored in a safe, dry location that will not interfere with the safe operation of the vehicle. If while riding it is experienced that the batteries come loose or lose contact, use one or two of the DSR-RT1100 Cable Ties to secure that batteries.

DSR-12VDC-180CM Power Cable Installation

The DSR-12VDC-180CM DC Power Cable is the 2nd option to supply power to the remote microphone and camera. Both the camera and remote microphone operate off 12V DC. The combined power consumption of the camera and remote microphone is approximately 120mA. When using the DSR-12VDC-180CM to power the camera and remote microphone is it imperative that the power source meet these requirements.

To install the DSR-12VDC-180CM...



Connect the red wire (fused line) to a positive (+) 12V DC power source. It is recommended to make the connection at the fuse box or other switched power source.

Connect the black wire (ground) to the negative (-) side of the 12V DC power source.

TIP: Motorcycle and powersport vehicle electrical systems can be 'noisy' and can generate interference with installed electronic equipment. If you experience interference when using the DC power cable, try using the battery holder to power the camera and remote microphone.

Camera Mounting

Your DSR-100 comes with three different camera mounts - the DSR-UM-1 Universal Helmet and Bike Mount, the DSR-BM-1 Pedestal Ball Mount, and the DSR-SM4 Screw-Down Mounting Base.

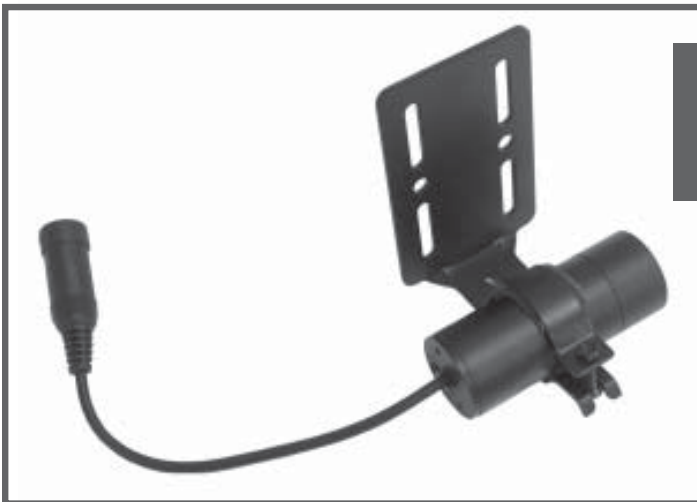
DSR-UM-1 Universal Mount

The DSR-UM-1 Universal Mount is capable of holding the camera two ways, on the bar-mount end and flat side.

To hold the camera with the bar-mount end...



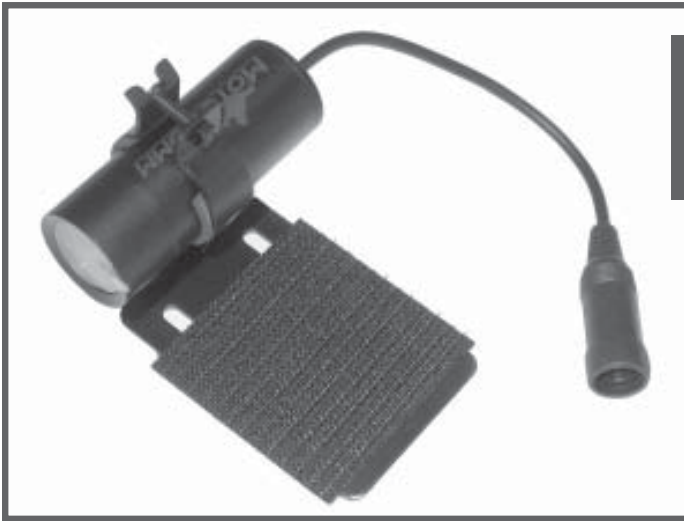
Cut 2 small pieces of the DSR-FOAM material and stick them to the inside surface of the bar-mount area.



Place the camera in the bar-mount and tighten down with machine screw and nut.

The DSR-UM-1 is not designed to be a permanent mounting solution. Do not leave the DSR-UM-1 attached to any surface for a prolonged period. Make sure all mounts, wires and connections are secure before riding. Check for loose mounts and connections during and after each ride.

Below is an example of how to use the DSR-UM-1 for a helmet mount.



Stick one side of provided hook-and-loop material to the DSR-UM-1.



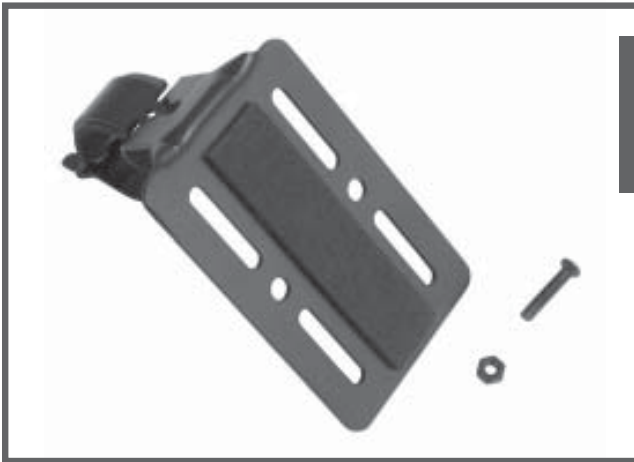
Stick the other side of provided hook-and-loop material to the inside surface of the helmet shell.



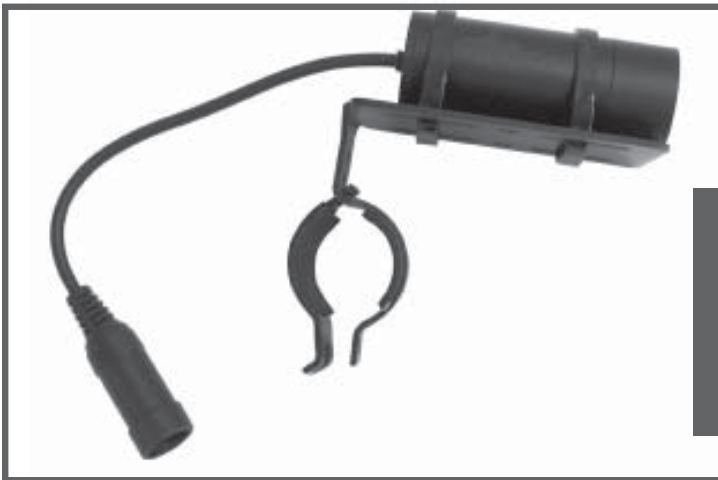
The DSR-UM-1 can be adjusted along its horizontal axis by reattaching the hook-and-loop sides at the proper angle.

DSR-UM-1 Universal Mount (continued)

To hold the camera with the flat side of the DSR-UM-1...



Cut 1 piece of the DSR-FOAM material and stick it to the flat side of the DSR-UM-1.



Place the camera on the foam piece and use 2pcs of the DSR-RT675 Medium Size Cable Tie to secure the camera to the DSR-UM-1



Handlebar mount example of the DSR-UM-1 with the camera strapped to the flat side. *Tip: Use more DSR-FOAM on bar-mount end so as to not scratch your bike!*

DSR-BM-1 Pedestal Ball Mount

To hold the camera with the DSR-BM-1...



Screw the DSR-BM-1 into the back side of the camera until finger tight. Loosen the DSR-BM-1 set screw, position the camera, and tighten the set screw.

Tip: If vibrations loosen the camera from the DSR-BM-1, use a thread-adhesive (Loctite, etc.).

The DSR-BM-1 features 3 mounting holes in the base of the mount. If the included mounting screws are not ideal for your bike's installation, then remove an existing fairing screw, etc. and reattached with the DSR-BM-1 screwed down. Use the DSR-FOAM between the mount and bike.



Example of the DSR-BM-1 used as a rearview camera.

DSR-SM4 Screw-Down Mounting Base

To hold the camera with the DSR-SM4...



Remove a body panel screw and reattach with the DSR-SM4 in place. Insert a DSR-RT675 or DSR-RT1100 cable tie through the mounting base and tighten it down with the camera positioned.

TIP: Screws and adhesives may be used to attach the DSR-SM4 to almost any object or surface. Make sure that any mounting method will support the camera at speed.

Playback of a Video

The DSR-100 is capable of playing back recorded videos on the DSR-7680 LCD screen, a television with component (RCA) inputs, or a computer with standard media software.

To playback a video on the DSR-7680 LCD screen...



Turn on DSR-7680 and select the Video menu.



Use the joystick control to highlight the video for playback and push in the joystick control to play.

From the **Video** menu, you can select videos for playback, delete files (**B** button), and view file information on the video (**A** button).

From the video playback screen, you can fast reverse (FR) and fast forward (FF) through a video, pause playback (push in on joystick), and adjust the volume. To adjust audio volume while a video is playing, push the **B** button, and move the joystick control left (-) to lower and right (+) to raise volume.

To playback a video on a television...



Insert DSR-VAC-1 cable into AV OUT jack on DSR-7680.

Connect the DSR-VAC-1 yellow, red, and white RCA plugs to the matching colored video/audio inputs on your television. Make sure that your television is set to view the correct input source.

Go to the **Setup** menu, **Speaker** sub-menu and make sure that the internal speaker is **OFF**. Go the **TV_out** sub-menu and select **Tv NTSC** (for USA) - see DSR-7680 Unit Tour for more information. The DSR-7680 screen will show on your television.

Back out to main menu, and select **Video** menu. Select the video for playback and follow standard playback procedure.

TIP: The DSR-7680 records video at 320x240 @ 30fps - a standard internet resolution. Playback of video directly to televisions may not have the best quality because of the interpolation to NTSC resolutions.

To playback a video on a computer...



Connect DSR-USB-1 cable to your PC's USB port. With the DSR-7680 turned off, connect the DSR-USB-1 cable to the DSR-7680.

Turn on DSR-7680 and wait for it to sync with PC. The DSR-7680 will show up on your PC as 2 drives. The first drive (alphabetically) is the DSR-7680 on-board memory. The second drive is the optional SD Card.



On your computer, select the DSR-7680 drive that contains your videos. Open the Videos folder. At this point you can transfer the video files to your computer for editing and playback, or simply play the video from the DSR-7680 drive.

Disconnect the DSR-7680 from the PC using the proper method for your PC (Safely Remove Hardware command, etc.)

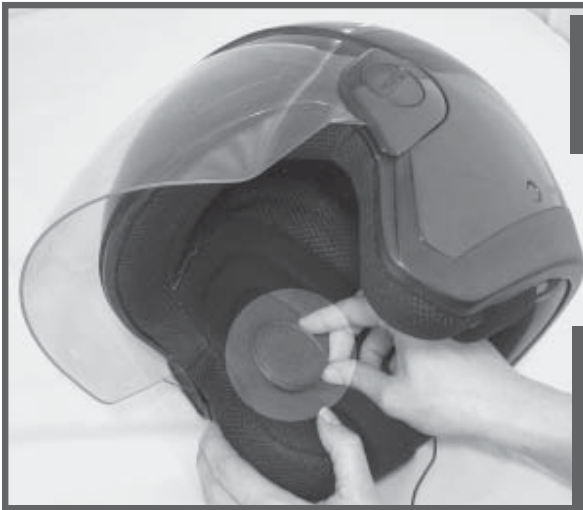
TIP: The DSR-7680 saves videos in the standard .asf file format. Most video editing software will import .asf files. After editing, if you want to transfer the file back to the DSR-7680 it must be in the .asf format and at the native resolution.

The DSR-100 features a MP3 player and MP3 recorder (encoder). Included are stereo helmet speakers and an adapter cable so that you can listen to music while riding. Please note that the MP3 player and video recorder features of the DSR-100 can not be used at the same time.

MT-40-1 Helmet Speaker Installation

WARNING: *In some states it is illegal to have speakers inside a helmet. Please check with your state and local laws before using this product. Do not raise the speaker volume so that it interferes with the hearing of traffic and other external noises.*

The MT-40-1 Helmet Speakers attach directly to the helmet lining with the provided hook-and-loop fasteners.



Remove the adhesive-backed piece of hook-and-loop material from the back of the speaker cushion.

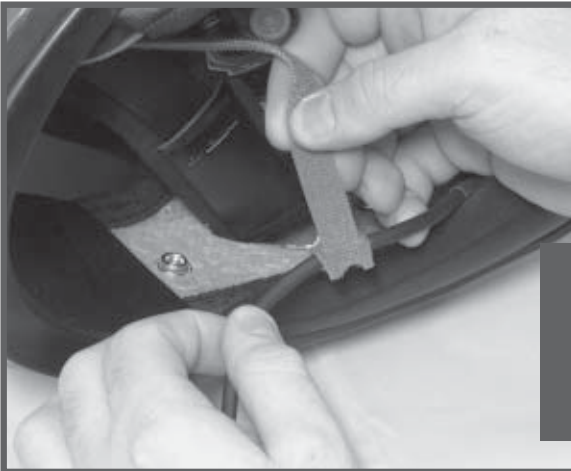
If attaching speakers directly to helmet lining DO NOT use adhesive-backed piece. Only use adhesive-backed piece if attaching speakers to the inside surface of helmet shell or other smooth,

TIP: The speakers must be attached directly to the helmet liner or underneath the helmet liner as long as the liner is thin and does not muffle the audio. For best results and comfort, try to position the speakers so they line up directly with the ear or slightly in front of the ears. Do not mount the speakers more than ¼ inch, in any direction, from your ears! If the speakers are mounted too far away from the ears, or underneath a thick liner or helmet foam, it will be difficult to hear the speaker audio over loud wind and road noise.

Route the speaker wires under the helmet liner or cheek pad so that the wires do not interfere with taking the helmet on and off. The individual speaker lines feature micro-connectors that may be unplugged for easier cable routing. Tape (preferably electrical tape) may be used to secure the speaker wires to the inside of the helmet shell.



Remove or separate the cheek pad from helmet. Loop the hook-and-loop cable tie through itself and over the MT-40-1 cable so that the hook (rough side) of the cable is facing you.



Tighten hook-and-loop cable tie down on MT-40-1 cable. The hook-and-loop cable tie should be tight enough to make sliding it down the cable difficult.



Peel the backing off the 2-inch square piece of loop (soft side) material and firmly adhere it to the hook side hook-and-loop cable tie.

MT-40-1 Helmet Speaker Installation (continued)



Firmly push the assembled pieces to the inside of the helmet shell. Depending on your helmet, you may be adhering this to foam or the inside surface of the helmet shell.



Fold the hook-and-loop cable tie over the 2-inch piece and trim off any excess material on the hook-and-loop cable tie.



The MT-40-1 speakers are now installed and the cable is secured. Reassemble the helmet.

MP3 File Loading and Direct Recording

MP3 files can be transferred onto the DSR-7680 from a PC (via the DSR-USB-1 cable), or can be recorded (encoded) directly from an audio source with a headphones output jack (via the DSR-3.5S-1 cable).

To transfer MP3 files from your PC to the DSR-7680...



Connect DSR-USB-1 cable to your PC's USB port. With the DSR-7680 turned off, connect the DSR-USB-1 cable to the DSR-7680.

Turn on DSR-7680 and wait for it to sync with PC. The DSR-7680 will show up on your PC as 2 drives. The first drive (alphabetically) is the DSR-7680 on-board memory. The second drive is the optional SD Card.



You can choose to copy the MP3 files to either the on-board memory or the SD Card. Please note that when the SD Card is inserted into the DSR-7680, only files contained on the SD Card can be accessed from the DSR-7680 menus. To access files stored in the on-board memory, eject the SD Card.

Copy the MP3 files from your PC to the MP3 Folder on the DSR-7680.

Disconnect the DSR-7680 from the PC using the proper method for your PC (Safely Remove Hardware command, etc.)

MP3 File Loading and Direct Recording (continued)

To record (encode) MP3 files directly to the DSR-7680...



Connect one end of the DSR-3.5S-1 cable to the DSR-7680 LINE IN jack.



Connect the other end of the DSR-3.5S-1 cable to the headphones output jack of a CD player, stereo, etc.

Select the **Record** menu, and **Audio Only** sub-menu. Press the B button on the DSR-7680 to start recording. Push in the joystick control to stop recording.

*TIP: Turn on the DSR-7680 internal speaker to hear and monitor the source audio while recording. To turn on the DSR-7680 internal speaker, select **Setup** menu, **Speaker** sub-menu, highlight **ON**, and push in the joystick control to select. Use the **ESC** button to return to main menu.*

MP3 Playback

The DSR-100 comes with helmet speakers (installed earlier in this section) and standard earphone speakers (for use when not on bike). Either type of speaker set connects to the DSR-7680 through the headphones / AV OUT jack.

To listen to MP3's with helmet speakers...



Insert the 3.5mm stereo plug from the MT-VX9 Music Adapter Cable into the headphones jack on the DSR-7680.

To connect the music adapter cable to the helmet speakers, carefully line up the arrows on the 6-pin mini DIN connectors and firmly push the connectors together.

Turn on the DSR-7680 and activate the headphones jack by turning off the unit's internal speaker. Select the **Setup** menu, **Speaker** sub-menu, highlight **OFF**, and push in the joystick control to select. Use the ESC button to return to main menu.

To play MP3's, select the **Audio** menu, select the song you want to hear, and push in the joystick control to play.

From the MP3 song list menu, you can select songs for playback, delete files (B button), and set the song repeat mode (A button).

From the song playback screen, you can fast reverse (FR) and fast forward (FF) through a song, pause playback (push in on joystick), and adjust the volume. To adjust music volume while a song is playing, push the B button, and move the joystick control left (-) to lower and right (+) to raise volume.

Voice Recorder

The DSR-7680 has a built-in microphone and voice recorder feature.

- (1) Select **Record** menu, and **MIC Only** sub-menu.
- (2) Press B to start voice recording.
- (3) Speak into Internal Microphone hole in side of unit.
- (4) Push in joystick control to stop voice recording.
- (5) Voice recorder files are saved at .wav file in the **Audio** menu.

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