

Note: Your recording device may have internal gain controls that may need to be adjusted to get the best results. Consult your device's user manual for more information.

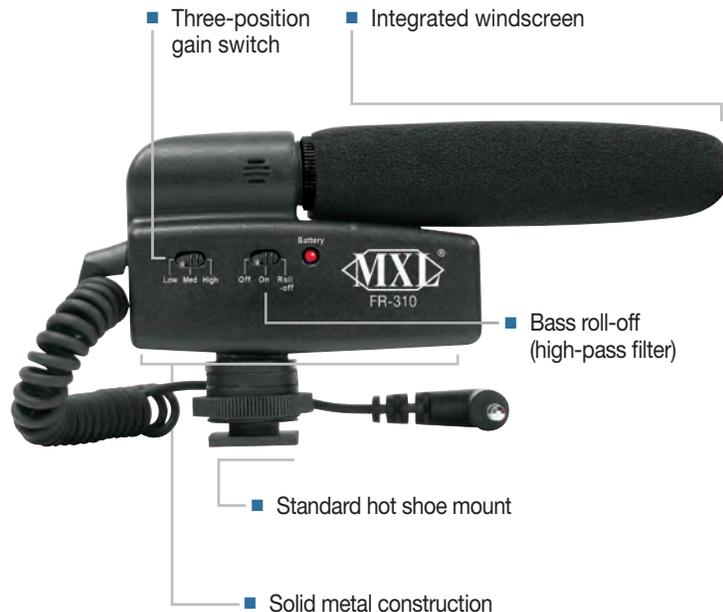
Switch #2 has three positions, which are labeled "Off," "On" and "Roll-off." When this switch is in the "Off" position, the microphone is off and will not draw power from the battery. The "On" position turns the microphone on and sets it to record with no filtering. The "Roll-off" position sends the signal through the microphone's high-pass filter to reduce or eliminate low-frequency noise. For example, older camcorders sometimes produce low-frequency motor noise. The high-pass filter will reduce or eliminate this noise.

Specifications

Transducer:	10mm Electret Condenser
Polar Pattern:	Supercardioid
Frequency Response:	40Hz—20kHz
Output Impedance:	250 ohms
Power Requirements:	1.5V AAA Battery
Bass Roll-Off:	-6 dB/octave at 150Hz
Gain:	-5dB, 0dB, +5dB
Output Connector:	1/8" (3.5mm) Mini TRS
Output Signal:	Mono
Battery Life:	Up to 500 hours
Dimensions:	5.3" x 2.5" (135mm x 63mm)
Weight:	0.30 lbs (136 g)

MXL[®] FR-310

Hot Shoe Mount Shotgun Microphone



Thank you for choosing the MXL FR-310 video microphone. The FR-310 is the perfect microphone for camcorders, high-definition digital SLR cameras and portable recording devices. To get the best performance from your new microphone, please take a few minutes to read this manual.

Features

- Solid metal construction
- Integrated windscreen
- Three-position gain switch
- Bass roll-off (high-pass filter)
- Standard hot shoe mount

Power

The FR-310 is powered by an internal AAA battery. Use a fresh battery to get the best performance from the microphone. We also recommend carrying a spare battery.

A fresh battery should provide up to 500 hours of continuous recording.

A battery indicator light is located on the right side of the microphone.

- When the indicator light is illuminated, the battery is close to running out of life and should be replaced.
- The light will not be illuminated when the battery is not close to running out of life or when the microphone is turned off.
- The indicator light will flash when the microphone's power switch is moved to the "On" position.

Note: Remember to turn the microphone off when it is not in use.

Installing the battery

Remove the battery cover on the side of the microphone by sliding it backward. Insert the battery with the positive terminal facing the front of the microphone. Replace the battery cover by sliding it forward until it clicks into place.

Attaching the microphone

A standard hot shoe mount is located on the bottom of the FR-310. Rotating the knurled tightening ring counterclockwise will make mounting the microphone easier. Tightening the ring after the microphone is securely in the camera's hot shoe mount will improve stability.

The FR-310 is equipped with a captive signal cable that has a 3.5mm jack. Insert the jack into the external microphone socket on your recording device.

Note: Some recording devices require changing the position of a switch or changing the device's settings to work with an external microphone. Consult your device's user manual for more information.

Using the switches

There are two switches on the right side of the FR-310:

- One switch adjusts the microphone's gain settings.
- One switch turns the microphone On/Off or activates the bass roll-off (high-pass filter).

Switch #1 has three positions, which are labeled "Low," "Med" and "High." These positions reflect the microphone's gain settings. We recommend that you initially set this switch to "Med" and try the other settings if you experience low output or overloading.