



Mini Shotgun Microphone TinyMike

ATM 216



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Thank you for choosing an Ambient product.

This high quality miniature microphone can work straight of the low voltage power on DSLR or small DV cameras. Alternatively, an active adapter cable allows phantom powered operation, which makes it all the same a suitable accessory for the popular small HD cameras with XLR inputs. Meeting the requirements of most common camera types, the Tiny Mike is available in preconfigured sets, which contain all necessary bits and pieces. A special adapter also allows for boom or stand mounted operation.

The Tiny Mike has been successfully used in many documentaries and broadcast applications and was rewarded with the Cinec Award for technical innovation.



Features

Electret Microphone can be powered by „Plug in power“ available on almost all DV Camcorders.

Good general frequency response with highly directional characteristic in mid and high frequency range.



Cover: Example of use, Tiny Mike mounted on Canon Mark II; not included in purchased parts package!

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Miniature Electret Shotgun Microphone for DSLR Cameras

ATM 216 DSLR



Prod.nr. Description

- | | | |
|----|----------------|--|
| 1) | <i>ATM216</i> | Tiny Mike, miniature electret shotgun microphone |
| 2) | <i>ATMWS</i> | Velvet foam windshield |
| 3) | <i>ATHRY</i> | Custom Rycote suspension incl. insert and QBS hot shoe mount |
| 4) | <i>ATM3.5</i> | Adaptor cable Binder 3-pin to 1/8" mini jack |
| 5) | <i>ATM3.5H</i> | Adaptor cable Binder 3-pin to 1/8" mini jack, hi-sens. |

Miniature Electret Shotgun for cameras with 48V Phantom power

ATM 216 PH



Prod.nr. Description

- | | | |
|----|---------------|--|
| 1) | <i>ATM216</i> | Tiny Mike, miniature electret shotgun microphone |
| 2) | <i>ATMWS</i> | Velvet foam windshield |
| 3) | <i>ATHRY</i> | Custom Rycote suspension incl. insert and QBS hot shoe mount |
| 4) | <i>ATMEMP</i> | Active adaptor cable Binder 3-pin to 3-pin XLR male |
| 5) | <i>ATHPD</i> | Concentric mounting adaptor with variable diameter to fit all generic mic brackets |

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Miniature Electret Shotgun for ARRI AMIRA

ATM 216 AM



<i>Prod.nr.</i>	<i>Description</i>
1) <i>ATM216</i>	Tiny Mike, miniature electret shotgun microphone
2) <i>ATMWS</i>	Velvet foam windshield
3) <i>ATHAM</i>	Custom suspension for ARRI AMIRA
4) <i>ATMEMPAM</i>	Active adaptor cable Binder 3-pin to 3-pin XLR male right angle
5) <i>ATHAM-2</i>	TinyMike cable suspensions for ARRI AMIRA (3 + 1 reserve)
6) <i>ATMWJ</i>	Fluffy windshield



Cable Mounting Instructions ATM 216 AM



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Accessories

Mounting Adaptor for 3/8" female Threads

QBS

To mount a microphone suspension or accessory with 3/8" thread to a hot/ cold shoe we invented our sophisticated QBS mount.

Thanks to the divided screw the thread can be spread when the microphone is in the perfect position. This way it will lock and protect the microphone from twisting and turning on the camera with rapid movements.

The necessary standard hex-wrench is included in the purchased parts package.



opened thread



locked thread



Technical Details

Material: anodized Aluminum

Weight: approx. 10 g

Screw diameter: 3/8"

Screw length: approx. 27 mm

Dimension (cold shoe): 18 x 18 mm

Including Allen key®

Fluffy Windshield

ATMWJ

Technical Details

Length: approx. 200 mm

Diameter: OD = 100 mm

Color: black

Material: fur



Hot Shoe Adaptor

ATB101

Pivoting hot shoe mount with 3/8" thread

Technical Details

Dimension: approx. 50 mm

Material: POM, aircraft aluminum

Weight: approx. 70 g



„Tiny Bar“

ATMB

„Tiny Bar“ double cold shoe 3/8" and 1/4" mount

Technical Details

Dimension (WDH): approx. 100 x 23 x 25 mm

Material: anodized Aluminum

Color: blue

Weight: approx. 42 g



Accessory Mount

ATMP

Hot shoe accessory mount with additional hot shoe for radio transmitter.

Technical Details

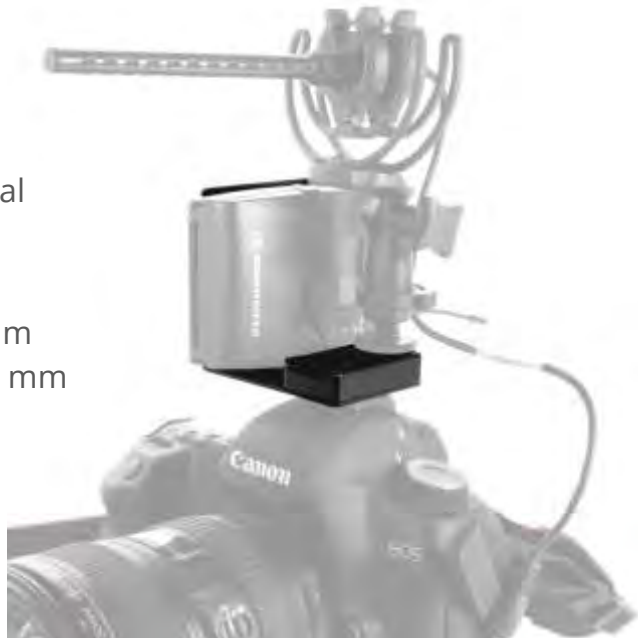
Dimension (accessory mount): 60 x 65 mm

Dimension (additional hot shoe): 45 x 25 mm

Dimension (cold shoe): 18 x 18mm

Material (accessory mount): POM, metal

Weight: approx. 46 g

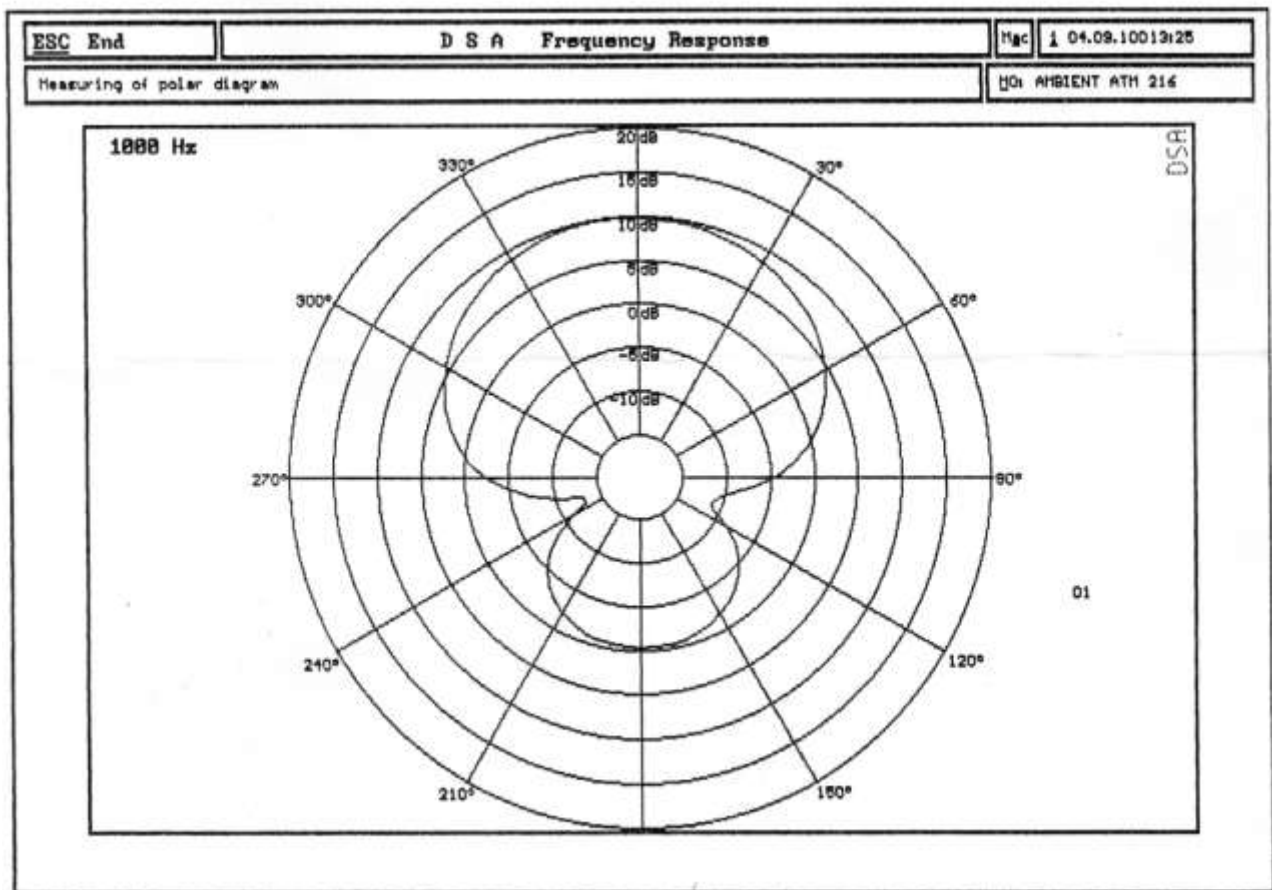


Example for use (Sennheiser wireless fixed by belt clip)

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Technical Data

Polar pattern	Hyper cardioid (mini shotgun)
Frequency response +/- 2 dB	20- 18000 Hz
Sensitivity	17mV/ Pa
Equivalent SPL rated at CCIR	33dB
Max. SPL 1kOhm	128dB
Dimensions	Ø 12/ 8 mm x 140 mm
Weight (without suspension)	30 g



Cable Wiring

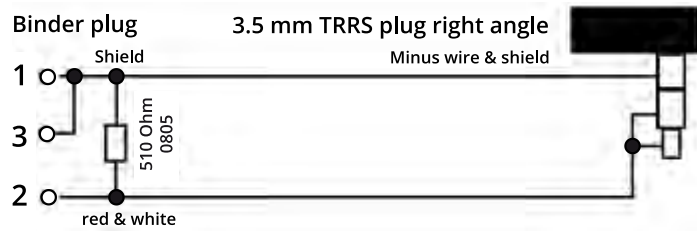
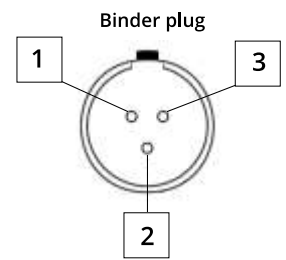
Adaptor Cable

ATM3.5

"Tiny Mike" adaptor with 3.5 TRRS right angle plug

Binder 3-pin to 3.5 mm TRS right angle plug

Length: approx. 27 cm



Adaptor Cable, unpadding

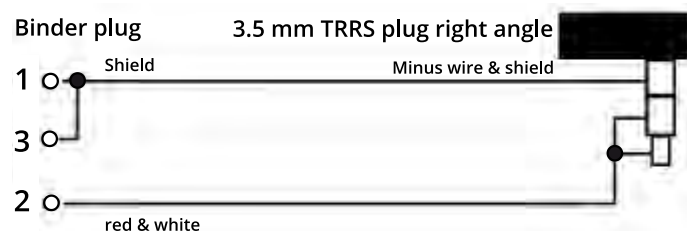
ATM3.5H

"Tiny Mike" adaptor with 3.5 TRRS right angle plug, unpadding

High sensitivity

Binder 3-pin to 3.5 mm TRS right angle plug

Length: approx. 27 cm



Active Cable

ATMEMP & ATMEMPAM

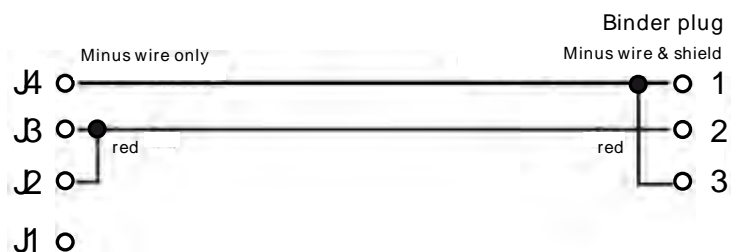
"Tiny Mike" Adaptor with 3-pin XLR

Active cable for 48 Volt Phantom power

Binder 3-pin to 3-pin XLR male

Length: approx. 40 cm

XLR cap: red



NC3MX-B with EMP plate on Binder plug

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Supplementary Information

To guarantee the best experience with your TinyMike, Ambient provides 2 different 3-pin Binder to mini jack interconnection cables:

One cable is unmarked and a straight connection to the camera/ recorder while the other one is marked with a yellow sleeve and attenuates the signal level for recording high sound levels.

This helps to compensate for the wide variation in input sensitivity on devices with this kind of input and their partial lack of manual level control.

Since it is almost impossible to give a globally valid recommendation it may become necessary to evaluate the right cable for your application and gear and do a test.

We would advise to start with the unmarked/ unpadded cable and move over to the padded one only if the audio shows one or more of these symptoms:

- Too loud
- Obtrusive AGC engagement ("pumping" background sounds in lower passages)
- Distorted audio even though signal metering in the display is still below max.

Contrary, the unpadded cable may be indicated if the recording shows increased noise and hiss.

We hope you enjoy recording with our gear.

Sebastian Fell
Ambient Recording

sebafell@ambient.de

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MADE IN GERMANY

Ambient Recording GmbH

Schleissheimer Straße 181 C | D - 80797 Munich | vox +49 89 36005510-0 | fax +49 89 651855

www.ambient.de/en | info@ambient.de

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