
Python Amcrest Documentation

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A Python 2.7/3.x module for [Amcrest Cameras](#) using the SDK HTTP API.

CHAPTER 1

Installation

1.1 PyPI

```
$ pip install amcrest --upgrade
$ eval "$(register-python-argcomplete amcrest-cli)"

# To enable amcrest-cli autocomple in the system:
$ echo 'eval "$(register-python-argcomplete amcrest-cli)"' > /etc/profile.d/amcrest-
↪cli-autocomplete.sh
```

1.2 RPM

```
$ git clone git@github.com:tchellomello/python-amcrest.git
$ ./autogen.sh
$ make rpm
$ dnf/yum install amcrest-cli-NVR.rpm pythonX-amcrest-NVR.rpm
```


CHAPTER 2

Usage

```
from amcrest import AmcrestCamera
camera = AmcrestCamera('192.168.0.1', 80, 'admin', 'password').camera

#Check software information
camera.software_information
'version=2.420.AC00.15.R\x\r\nBuildDate=2016-09-08'

#Capture snapshot
camera.snapshot(0, "/home/user/Desktop/snapshot00.jpeg")
<requests.packages.urllib3.response.HTTPResponse object at 0x7f84945083c8>

#Capture audio
camera.audio_stream_capture(httptype="singlepart", channel=1, path_file="/home/user/
↳Desktop/audio.aac")
CTRL-C to stop the continuous audio flow or use a timer

#Move camera down
camera.ptz_control_command(action="start", code="Down", arg1=0, arg2=0, arg3=0))

#Record realtime stream into a file
camera.realtime_stream(path_file="/home/user/Desktop/myvideo")
CTRL-C to stop the continuous video flow or use a timer
```

2.1 Command Line

```
$ man amcrest-cli
or
$ amcrest-cli --help

# Saving credentials to file.
$ vim ~/.config/amcrest.conf
```

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```
[patio]
hostname: 192.168.0.20
username: admin
password: 123456
port: 80

[living_room]
hostname: 192.168.0.21
username: admin
password: secret
port: 80

$ amcrest-cli --camera living_room --version-http-api
version=1.40
```

2.2 Text User Interface (TUI)

Configure `amcrest.conf` and trigger `amcrest-tui`, make sure the user triggering `amcrest-tui` have access to framebuffer device or use `sudo`.

NOTE: Execute it from console logins, like `/dev/ttyX` (Non X Window). Pseudo-terminals like `xterm`, `ssh`, `screen` and others **WONT WORK**.

```
$ vim ~/.config/amcrest.conf
[patio]
hostname: 192.168.0.20
username: admin
password: 123456
port: 80

[living_room]
hostname: 192.168.0.21
username: admin
password: secret
port: 80

$ amcrest-tui
```

CHAPTER 3

Supportability Matrix

Model	Tested	Status	Results/Issues
IPM-721S	Yes	working	
IP2M-841B/841W/842W	Yes	working	
IP3M-956B	Yes	working	
IP3M-956E	Yes	working	
IPM-HX1B	Yes	working	

If you have different model, feel free to contribute and report your results.

CHAPTER 4

Help

If you need any help, please join our community on the Gitter channels available at [Gitter](#).

CHAPTER 5

Developing

CHAPTER 6

Indices and tables

- `genindex`
- `modindex`
- `search`