

# IP camera Techage TA-XM-608GP-AI-30 (3MP)

## Specifications

- **Full AliExpress name:** *Techage H.265 3MP Two Way Audio POE IP Camera IP66 Waterproof Outdoor Video CCTV Security Surveillance Camera for POE NVR System*
- Bought on [AliExpress](#), at the time for **\$35** (shipped from EU warehouse)
- **Model:** Techage TA- XM- 608GP- AI- 30
- **Lens:** 3.6 mm
- **Power:** either 12 V DC, or 48V PoE
- **Default login:** admin /null
- **Administration:** requires Internet Explorer + ActiveX plugin
- **Resolution:** on the sticker 3MP, but within the settings the highest resolution is actually **4MP** at 2560x1440 (so something like 3.6 megapixels, also called 1440p or QHD)
- **Framerate:** 1-25 fps (can be adjusted)

## Worth mentioning

- This camera can do both H264 and H265 (HEVC) stream. When the codec is set to H.265X, the stream is actually x264 (and H265 is actual x265).
- The stream carries wrong aspect ratio metadata (should be 16:9, but it's actually 64:27). See `ffprobe` output bellow. Can be fixed without re-encoding, but it's annoying.
- There is some (2-way) speaker that was always buzzing. I cut it off. NOTE: Other Techage camera was the same way, but only when powered on by 12 V. When powered over ethernet (POE) it was quieted. So POE is preferred way of powering.
- Default IP is 192.168.1.10 with DHCP disabled.

## RTSP stream URL for ZoneMinder or VLC:

```
rtsp://192.168.1.150:554/user=admin_password=tlJwpbo6_channel=1_stream=0&protocol=unicast.sdp?real_stream
```

# Random settings:

```
# In-camera setting: "H.265X" + "4MP"
```

```
Video: h264 (High), yuvj420p(pc, progressive), 2560x1440 [SAR 4:3 DAR 64:27], 25 fps, 10 tbr, 90k tbn
```

```
# In-camera setting: "H.265" + "4MP"
```

```
Video: hevc (Main), yuvj420p(pc), 2560x1440 [SAR 4:3 DAR 64:27], 25 fps, 10 tbr, 90k tbn
```

```
# In-camera setting: "H.265X" + "3MP"
```

```
Video: h264 (High), yuvj420p(pc, progressive), 2304x1296 [SAR 4:3 DAR 64:27], 25 fps, 10 tbr, 90k tbn
```

## Fixing the wrong aspect ratio without re-encoding

With ZoneMinder's pass-through recording, for some reason my camera's raw footage is saved with a 64:27 aspect ratio. This means that it is a bit more noodly than it should be. This is fairly easy to fix with ffmpeg:

```
ffmpeg -i in.mp4 -aspect 16:9 -c copy out.mp4
```

Since I couldn't get ZoneMinder to force this parameter (`-aspect 16:9`) directly this as it saves the stream, I use this quick and dirty solution that runs via crontab every hour or so and fixes the recordings for me:

```
#!/bin/bash
```

```
# FIND ALL MP4 in /CCTV/1 OLDER THAN 60 MIN BUT YOUNGER THAN 4 HOURS (ASSUMING SCRIPT WILL RUN EVERY UNDE 4 HRS)
```

```
# CHECK WITH FFPROBE WHETHER THE FILE HAS BEEN FIXED YET
```

```
# IF NOT, FFMPEG WITH proper AR
```

```
CCTVDIR=/cctv/1
```

```
while IFS= read -r input; do
```

```
  [ffprobe "$input" &>/tmp/ffprobe-techage.txt
```

```
  [filecheck=$(cat /tmp/ffprobe-techage.txt | grep Stream | grep 16:9)
```

```
if [ -z "$filecheck" ]; then
    echo "Recording "$input" needs to be fixed. Proceeding..."
    oldname=$(basename "$input")
    fixedname=fixed-$(basename "$input")
    directory=$(dirname $input)
    ffmpeg -i "$directory"/"$oldname" -aspect 16:9 -c copy "$directory"/"$fixedname" </dev/null
    mv "$directory"/"$oldname" "$directory"/"$oldname".old
    mv "$directory"/"$fixedname" "$directory"/"$oldname"
    rm "$directory"/"$oldname".old
else
    echo "Recording "$input" has been fixed already. Skipping..."
fi
rm /tmp/ffprobe-techage.txt
done < <(/usr/bin/find $CCTVDIR -name '*-video.mp4' -mmin +15 -mmin -1440 -type f)
```

## Sample footage

Will add at some point. Overall very nice image for \$35.

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Revision #18

Created 17 March 2022 08:27:54 by jiripavlik

Updated 2 February 2023 12:06:41 by jiripavlik