

# M20 Action Camera User Manual

## (for Livestreaming Applications)



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## Transforming into to a Live Streaming Camera

### Very simple set up

You can just use a **M20 action camera** and an **Android phone** to upload your actions to YouTube, Facebook, USTREAM, Twitter etc ... to show your friends over the world live



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# Live Stream Diagram

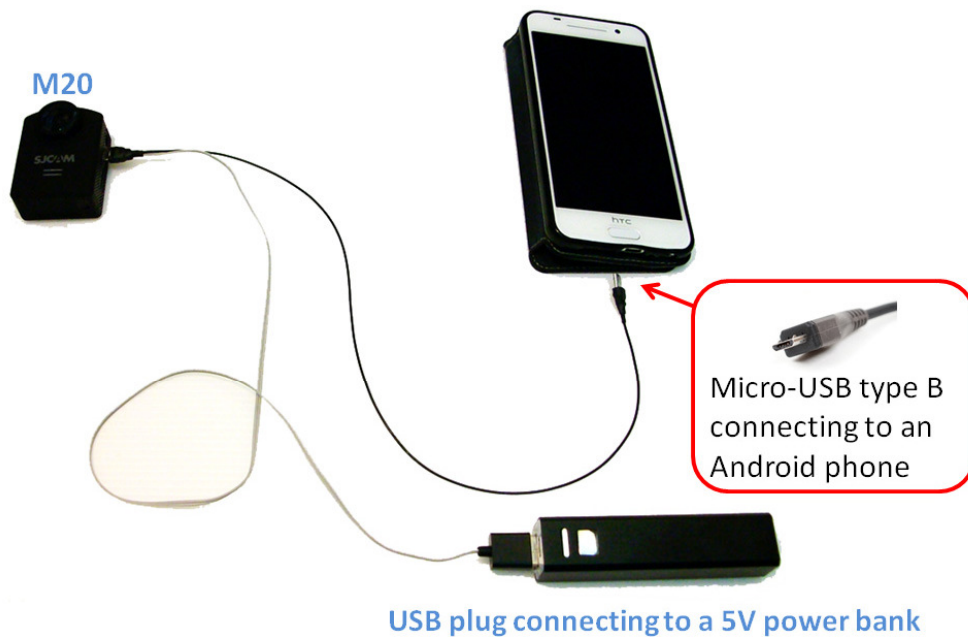


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# EZ Wiring Diagram

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**Note:** This custom-made wiring diagram allowing you reducing the current consumption drawing from a smartphone during live streaming

**Please check our YouTube demo video for the current test**  
Test result showing current dropping from **412 mA to 112mA!!!!**

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# Setup steps for Live streaming:

Using M20 and an **Android Phone** to Broadcasting your actions on YouTube / Facebook/ USTREAM, etc...

## a.) Download software to your Smartphone

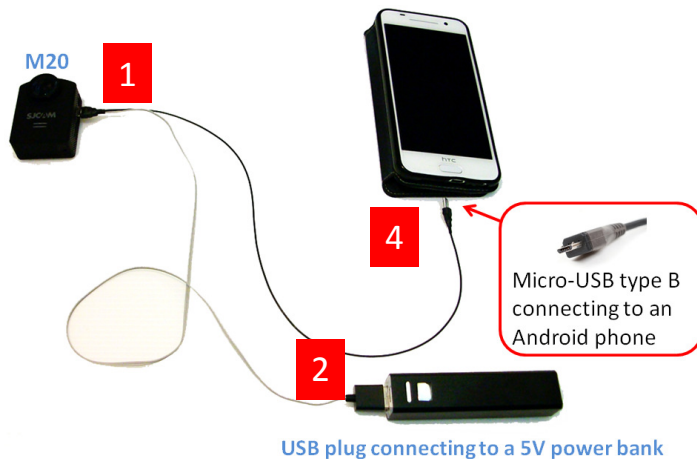
( Note: the software works for Android phone only, **not working for an iOS phone**)

Android Version requirements: Version 4.3 above:

\*\*\* Go to "**Google Play**", search and download "**CameraFi Live**"

## b. Setup Steps:

- 1.) Connect our custom-made OTG cable's Micro USB plug to M20's Micro USB input port
- 2.) Connect the OTG cable's USB to 5V battery
- 3.) Open CamerFi Live, select your livestream network and click "Start", and select STREAM SETTING (Resolution to 720P )
- 4.) Connect the OTG Cable's Micro USB port to Android phone
- 5.) After step 4, the M20, and battery will turn on automatically, and M20 will showing USB device, select and click **PC camera**
- 6.) The APP software CameraFi Live will prompt asking if allowing it to access the USB device, please click "Yes" to all questions, and the video will shown on the phone screen
- 7.) Click " GO", and continuing for Live streaming



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### **SJCAM M20 Description:**

The SJCAM M20 is SJCAM's smallest action camera to date. Weighing in at just 55 grams the M20 truly has a miniature form factor. But do not be fooled by the M20's small size. The camera is one of SJCAM's most feature robust products ever. Powered by a NTK96660 processor, the M20 takes vivid pictures, and awesome 2,5K videos, via its Sony IMX206 16 mega pixel sensor. Other hot features include Gyro stabilization for smoothing out the bumps when shooting high definition video, adjustable FOV, fish-eye correction function, and quick start recording, Instant AV-out, underwater mode, double file back-up record, MP4 & MOV video support, and JPG & RAW picture output. Moreover, M20 is the first SJCAM camera to support a bluetooth remote controller (watch).

### **SJCAM M20 Hot-Features:**

- 16.35mp Sony IMX206 sensor
- 4K\* @ 24fps (2880\*2160) \*4K is interpolated, 2K(2560 x 1440)30fps / 1080P(1920 x 1080) 60fps / 720P(1280 x 720)120fps, WVGA@240fps (Slow Mo)
- Built-in Gyro Anti-shake Stabilization Sensor (Hardware)
- Slow Motion: -2X, -4X, -8X
- Adjustable Wide-Angle View Lens – Adjust between wide, medium, narrow
- 1.5 inch LCD Screen
- RAW for taking photos
- Anti fish-eye mode
- FPV Mode
- Time lapse Video / Picture Record
- Burst Mode – Take up to 3 pictures per second (for rapid shutter action)
- Latest NTK96660 Novatek CPU
- AV-Out – Instant AV-out supported
- Underwater Record mode
- Dashcam mode
- Motion Detection
- HDMI-out – Real-Time Video Record
- 18 supported languages: SJ5000x Elite adds OSD support for: Czech, Slovak, Hungarian, Danish, Dutch, Turkish
- Android & iOS Wireless mobile connection via Wi-Fi – preview / shoot videos & pictures remotely – Easy-to-Share via SJCAM Zone App

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### SJCAM M20 Specifications:

- LCD 1.5" LTPS Screen
- Image Sensor 16.35 Mega Pixel Sony IMX206
- Image resolution: 16 Mega Pixel (4608\*3456)/ 12 Mega Pixel (4032\*3024)/10 Mega Pixel(3648\*2736) / 8 Mega Pixel (3264\*2448)/5 Mega Pixel (2592\*1944)
- 3 MP(2048\*1536)/ 2MHD(1920\*1080)/ VGA(640\*480)/ 1.3MP(1280\*960)
- Video resolution 4K (2880\*2160) @ 24fps (Interpolated), 2K (2560\*1440)@ 30FPS;1080P(1920\*1080)@ 60FPS, 720P (1280 x 720) @ 120FPS, WVGA @ 240fps (Slo-Mo)
- Default resolution Video:1080P / Picture:4032\*3024
- Video format(s): MP4 or MOV / Image format(s): JPG or RAW
- Waterproof Up to 30 meters (need waterproof case)
- Lens Adjustable wide-angle fish-eye lens Adjust between Wide Medium Narrow
- Memory Slot for Micro SD card up to 32 GB \*Selected 64gb & 128gb Cards (Class 10)
- OSD languages: English / French / German / Spanish / Italian / Portuguese / Japanese/ Chinese / Russian / Korean / Czech / Slovak / Hungarian / Danish / Dutch / Turkish
- Connections USB 2.0 , HDMI (HDMI Certified)
- Battery life: up to 80 minutes (1080P) \*Charge life Depends on Gyro + Wifi Settings
- Power: Removable 900mAh Battery
- Dimensions L\*W\*H: 1.58x0.903x2.124in / 40.14x37.18x48.00mm
- Weight 50.5 grams (without batteries), 55.5g with batteries
- Available in Black color only
- Applications: Extreme Sports, Outdoor Sports Activities, FPV, Biking , Dashcam, Diving, Home security etc

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### SJCAM M20 Main Features:

- Multiple video recording formats:  
4K @ 24FPS (2880\*2160), 2K (2560 x 1440) @ 30FPS  
1080P (1920 x 1080) @ 60FPS  
1080P (1920 x 1080) @ 30FPS  
720P (1280 x 720) @ 120FPS, WVGA @ 240fps (Slo-Mo)
- Multiple photo shooting modes:  
Single Shot  
Burst-Shot Mode: 3 photos per second  
Timer: 2s, 3s, 5s, 10s, 20s, 30s, 60s  
Continuous: 2 seconds, 5 seconds to 10 seconds
- Ultra compact and lightweight design, only 55.5g with battery (without waterproof case)
- IP68 waterproof up to 30 meters for capturing water action (need waterproof case)
- Video recording while charging
- Supports clear HDMI output
- Supports Micro SD Card Class 6 and above 32GB \*Selected Class 10 64gb & 128gb Memory cards supported (Card Not Included)
- Detachable battery, easy to replace and charge

### SJCAM M20 Package Contents:

1 x Original SJCAM M20 Action Cam; 1 x Waterproof Housing; 1 x Quick Release Buckle  
1 x Handlebar Seat post Mount  
1 x Curved Adhesive Mount; 1 x Flat Adhesive Mount; 1 x 3-Way Pivot Arm Mount  
2 x 3M Adhesive Tape; 1 x Frame Mount; 1 x Quick Release Clip for The Frame  
1 x Vertical Quick Release J-Hook Buckle; 1 x Universal 1/4" Camera Tripod Mount  
1 x Tripod Mount Adapter; 1 x Cleaning Cloth; 1 x USB Cable  
1 x 900mAh Li-ion Battery; 1 x Multi-language Manual 2 x SJCAM Stickers

### Optional Accessory item is sold separately

- **Accessory 1: SJ Smart remote control watch**
- **Accessory 2: 128GB Micro SD card (class 10)**
- **Accessory 3: 7" LCD HDMI Monitor set for Car DVR mode (for car dashcam applications)**

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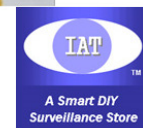
## Optional Accessory 1: Remote Control

**SJCAM™**

**SJCAM M20**  
Remote Control



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## Optional Accessory 2: 128GB Micro SD

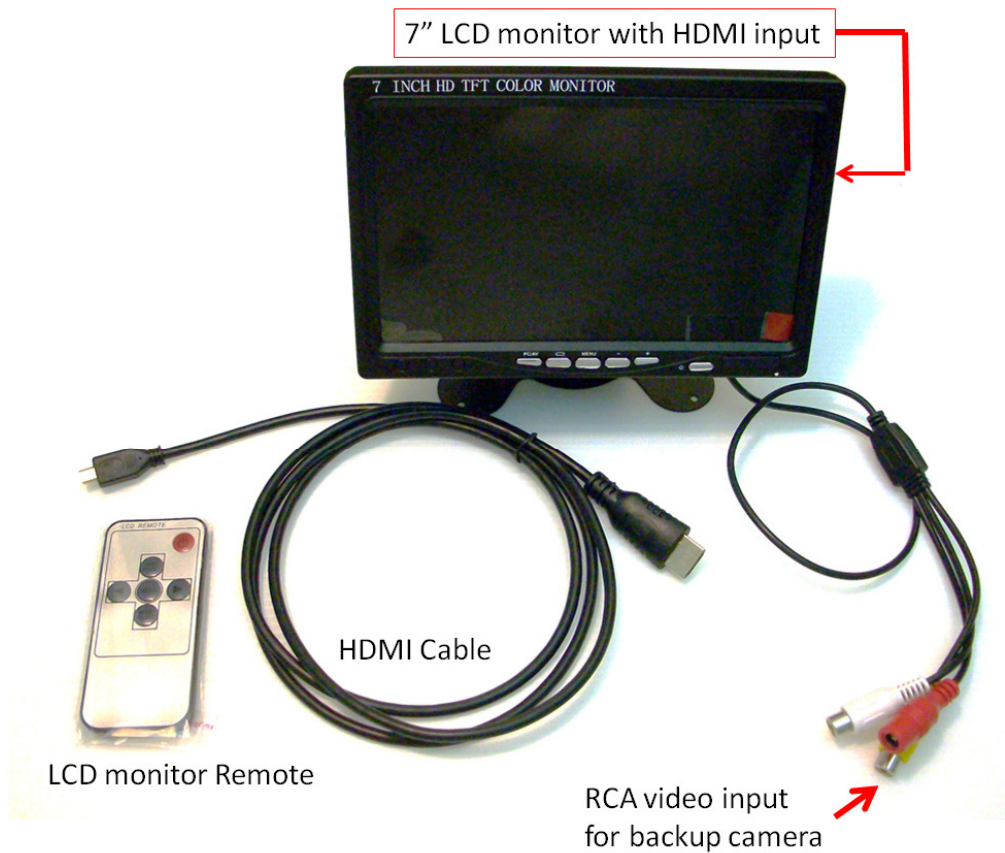
128GB (Class 10)  
Micro SD card



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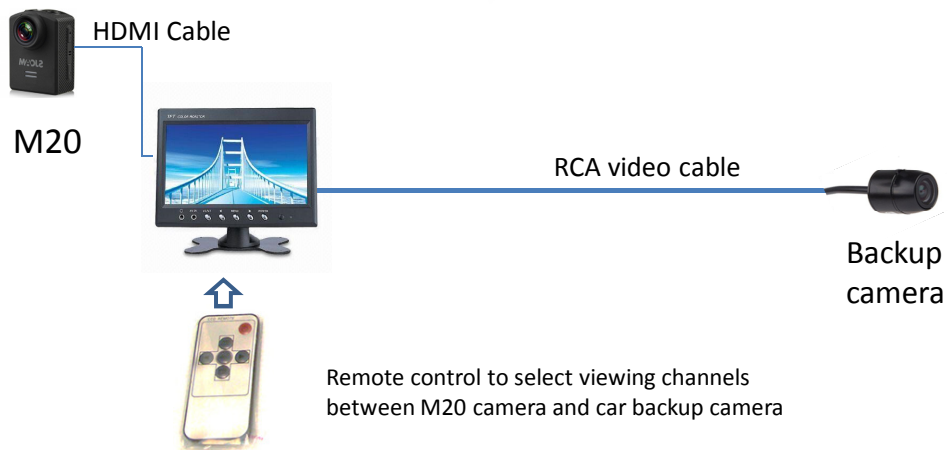
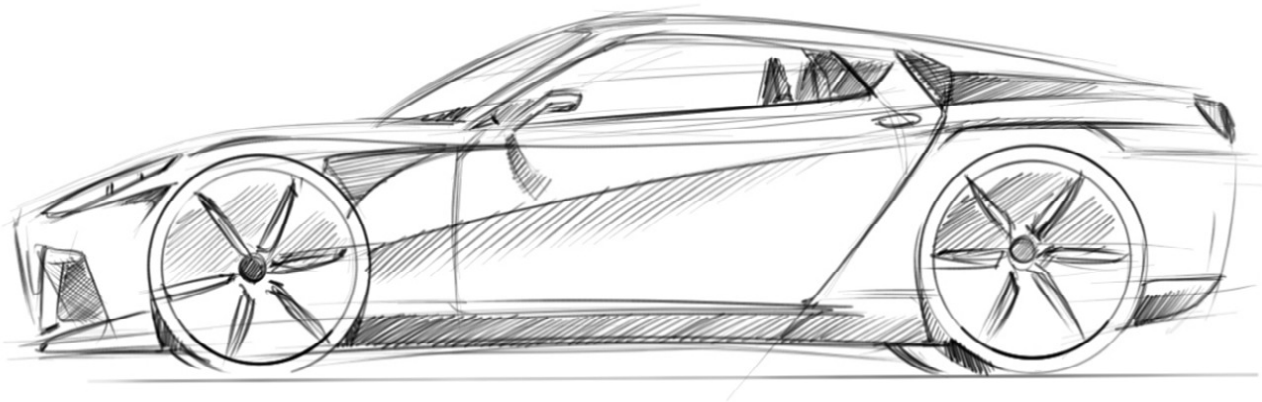
## Optional Accessory 3: 7" LCD Set for Car Mode



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# Wiring diagram for car dashcam application



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