SIYI
AI TRACKING MODULE
USER MANUAL

V1.1

January 2024

Thank you for purchasing SIYI's product.

SIYI AI tracking module supports collaborative control with SIYI optical pods and gimbal cameras to achieve real-time tracking and capture of targets and can highlight the tracking target in the picture through real-time focus and zoom.

It supports the anti-lost function. During the tracking process, if the target is blocked or briefly leaves the monitoring screen, AI tracking module can automatically recognize and continue tracking when it re-enters the monitoring screen.

To ensure you a good experience of the product, please read this manual carefully. If you encounter any issue using the product, please consult the manual or check the online pages of this product on SIYI official website (https://siyi.biz/en). You can also write an email to SIYI official A/S center (support@siyi.biz).

SIYI

SIYI User Group - Facebook

SIYI Official Website *(https://siyi.biz/en)*

SIYI Official Store (*https://shop.siyi.biz*)

SIYI Official AliExpress Store (*https://siyi.aliexpress.com*)

SIYI YouTube Channel (*https://www.youtube.com/c/SIYITech*)

User Manual Update Log

Version	Date	Updates
1.1	2024.1	1. Main firmware update log. 2. Instruction for AI target follow function.
1.0	2023.11	Original version.

CONTENT

READ TIPS

Icons

Please pay more attention to content indicated with the following marks:

⚠ **DANGER** Dangerous manipulation probably leads to human injuries.

⚠ **WARNING** Warnings on manipulation possibly leads to human injuries.

⚠ **CAUTION** Cautions on what manipulation may lead to property loss.

🚫 **Prohibited**   ❗ **Mandatory**   🔴 **Mark**

Safety

SIYI AI tracking module is designed for professional application in specific scenes, users who approach to the equipment should have the basic knowledge of how to operate it. Irregular or irresponsible manipulations to the device may cause damage, property loss, or human injuries, and SIYI Technology is not obliged to any of the damage, loss, or injury. It is prohibited to use SIYI products for military purpose. Users under 14 years' old should follow an experienced trainer's guide. Disassembling or modification to the system is prohibited without permission from its manufacturer, SIYI Technology.

Storage / Carrying / Recycling

When your SIYI product is left unused, or you are bringing it outdoors, or the product life has expired, please do read the below precautions.

⚠ DANGER

Always place your SIYI products at places where babies or kids do not reach.

SIYI products should be placed in places which are too hot (above 60℃) or too cold (under -20℃).

⚠ CAUTION

SIYI products should not be placed in places under direct sunshine or too dusty or too wet.

Carrying or transporting SIYI products should avoid vibration or shatter by which components may break.

1 INTRODUCTION

1.1 Product Features

4T Computing Power

SIYI AI tracking module has a computing power of up to 4Tops @ INT8, has strong performance in processing big-data artificial intelligence calculations, supports real-time AI recognition and tracking control of drones in the air, and can be widely used in surveillance, agriculture, forestry and plant protection, environmental monitoring, logistics and transportation and many other popular fields.

Human, Vehicle, and Boat Recognition

Multi-Target Monitoring

SIYI AI tracking module supports target recognition and tracking based on artificial intelligence technology, automatically recognize and record pedestrians, vehicles (including cars, trucks, and buses), and boats in the monitoring area, and support simultaneous monitoring of multiple targets.

Gimbal Camera Collaborative Anti-Lost Tracking

SIYI AI tracking module supports collaborative control with SIYI optical pods and gimbal cameras to achieve real-time tracking and capture of targets and can highlight the tracking target in the picture through real-time focus and zoom.

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It supports the anti-lost function. During the tracking process, if the target is blocked or briefly leaves the monitoring screen, AI tracking module can automatically recognize and continue tracking when it re-enters the monitoring screen.
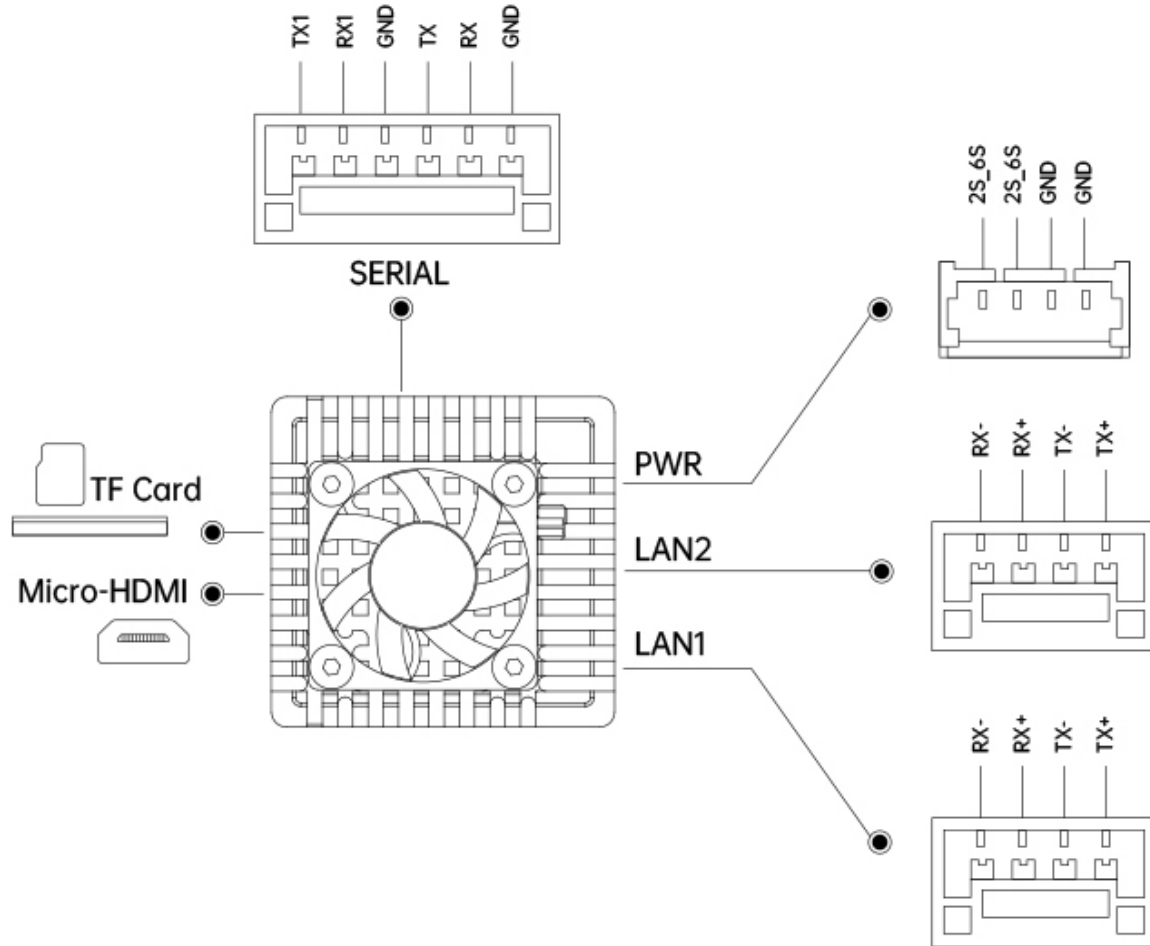
Mini Size & Lightweight

Abundant Features

Specifically optimized for drone application scenarios, SIYI AI tracking module adopts a small size, light weight, and low power consumption design. It also Ethernet output and HDMI output video streams.

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1.2 Interface & Pinouts

Port Definition

1.3 Technical Specification

Compatible Optical Pods & Gimbal Cameras	ZT30 / ZT6 / ZR30 / ZR10 / A8 mini
Recognizable Object Types	Human Auto Mobile (Car, Truck, Bus) Boat
Computing Power	4Tops @ INT8
Power Consumption	8 W
Working Voltage	11 ~ 25.2 V （3S ~ 6S）
Video Stream Codec Format	H.264 / H.265
Dynamic Target Gimbal Collaboration	Lock Target Auto Zoom Center Target
Target Recognition / Locking Accuracy	95%
Working Temperature	-10 ~ 50 ℃
Dimension	43.4*45.1*26.5 mm
Weight	60 g

⭕ **Mark**

Please format the SD card to FAT32 before camera firmware upgrade.

1.4 Packing List

1 x SIYI AI Tracking Module

1 x SIYI Gimbal Power Cable
(Power supply cable for SIYI gimbal)

1 x SIYI AI Tracking Module to SIYI Gimbal Ethernet Cable
(Connect SIYI AI tracking module's Ethernet port to SIYI gimbal's Ethernet port)

1 x SIYI AI Tracking Module to SIYI Link Cable
(Connect SIYI AI tracking module's Ethernet port to SIYI MK15 / HM30 air unit's Ethernet port)

1 x SIYI AI Tracking Module to SIYI Link Y Cable
(A Y cable which connects SIYI AI tracking module with SIYI MK15 / HM30 air unit for powering the AI tracking module, transfer video stream and control signal)

1.5 Indicator Definition

There are two indicators on SIYI AI tracking module to indicate the system's working or abnormal status: power indicator and status indicator.
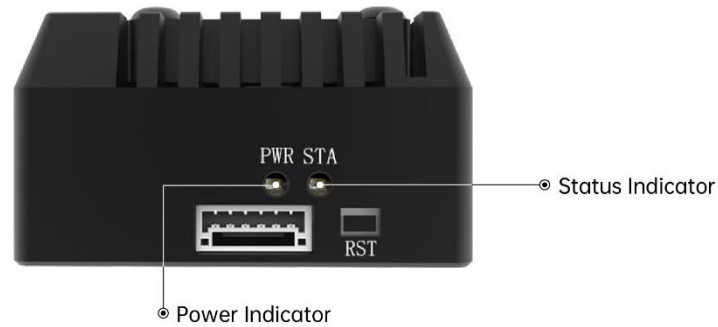
1.5.1 Power Indicator

🔴 Solid Red: Module is powered normally.

1.5.2 Status Indicator

🟡 Solid Yellow: Under firmware upgrade.

🟡 Yellow Blinks: Camera is not connected.

🟢 Solid Green: System is starting.

🟢 Green Blinks: System is running normally.

🔴🟡 Red-Yellow Blinks: Parameter resets successfully.

2 GET READY TO USE SIYI AI TRACKING MODULE

2.1 Typical Connection Diagram

2.1.1 ZT30

SIYI

2.1.2 ZT6

SIYI AI Tracking Module

Standard Cable

Ethernet Video Stream & Protocol Control

Air Unit Power Input

Gimbal Power Input

ZT6

MK15 / HM30 Air Unit

SIYI

2.1.3 ZR30

SIYI AI Tracking Module

Standard Cable

Ethernet Video Stream & Protocol Control

Standard Cable

Air Unit Power Input

Gimbal Power Input

MK15 / HM30 Air Unit
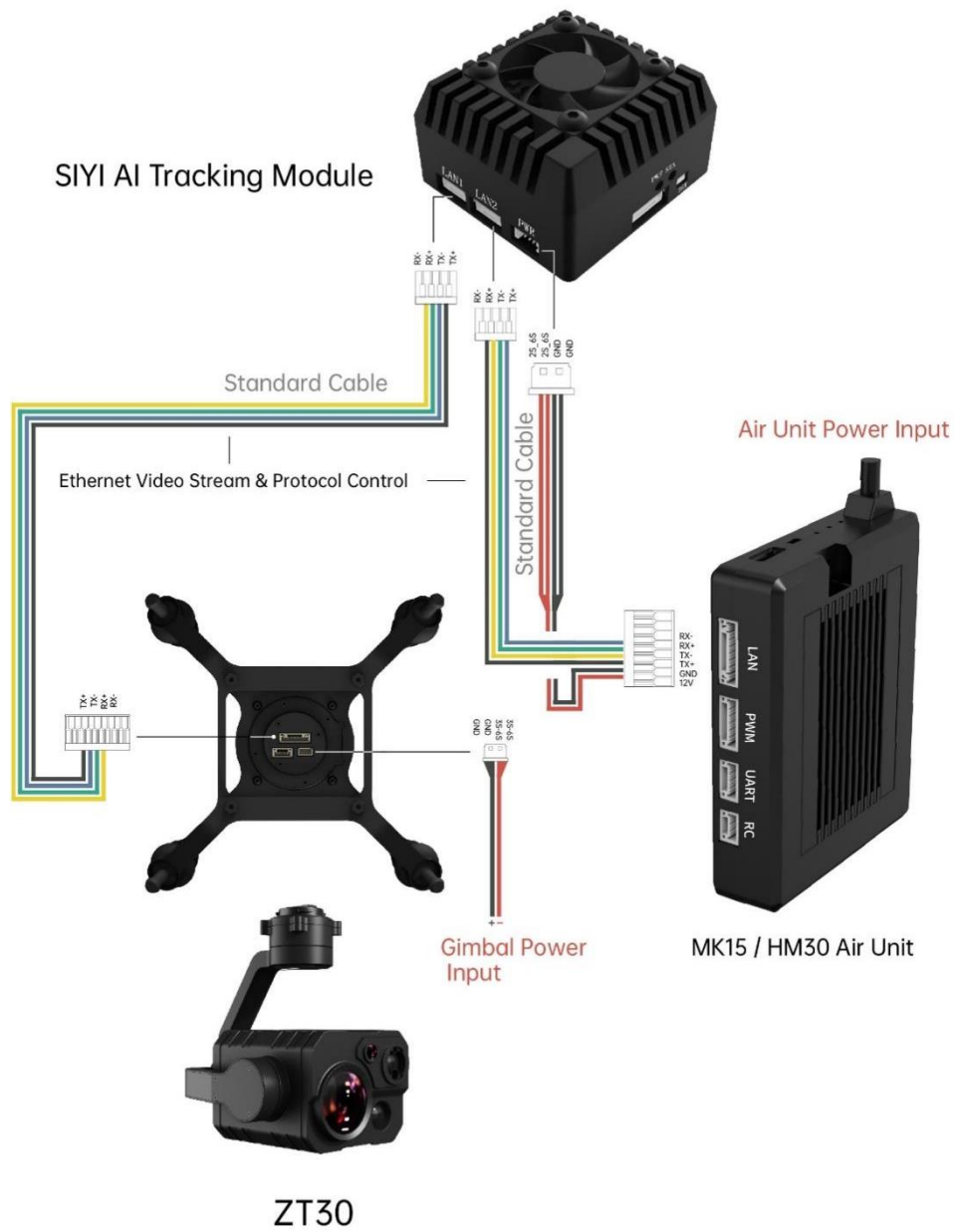
ZR30

2.1.4 ZR10

SIYI

2.1.5 A8 mini
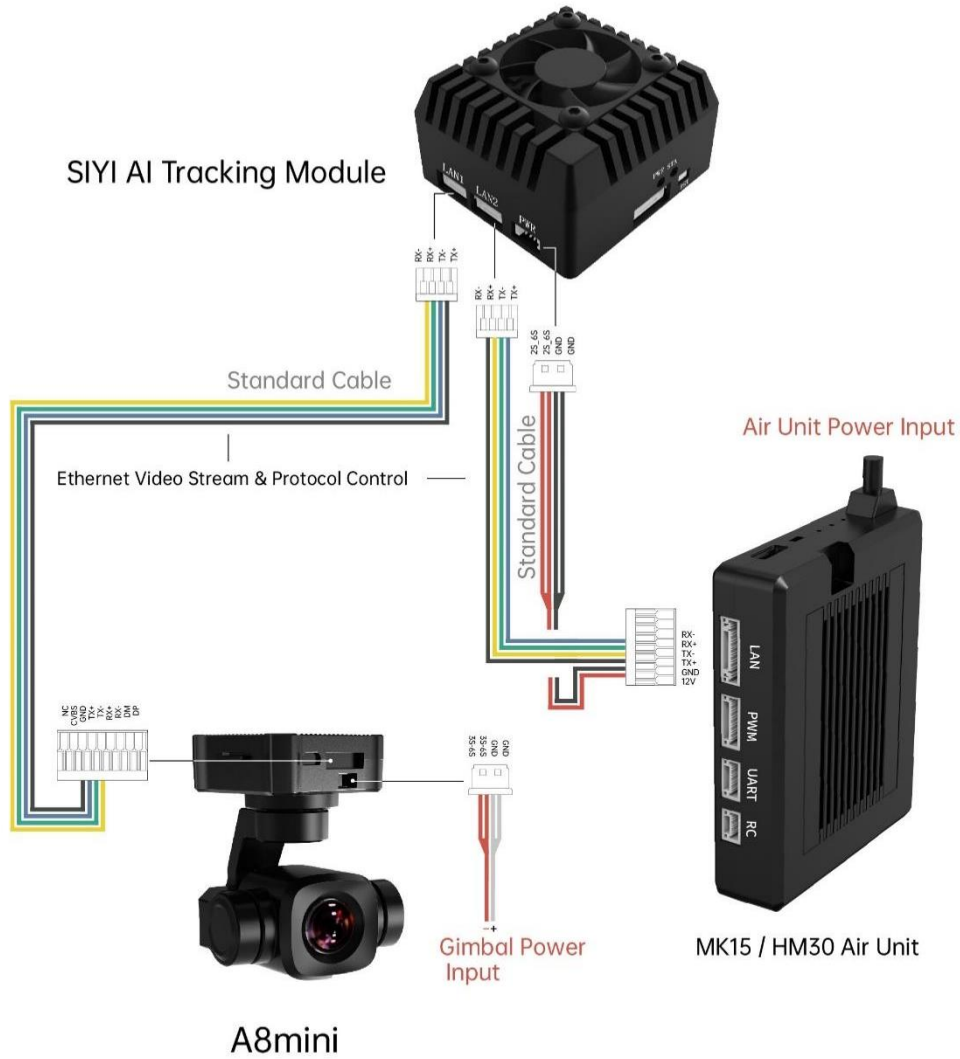
2.2 Key Features & Pre-Cautions

SIYI AI tracking module supports target recognition and tracking. Recognizable target types are Human, Auto Mobile (Car, Truck, Bus), Boat.

2.2.1 Function ON / OFF

1. Please refer to Chapter 2.1 in this manual to connect SIYI AI tracking module with SIYI gimbal and SIYI link.

2. Confirm if gimbal camera's firmware has been upgraded to be compatible with SIYI AI tracking module.

3. Confirm if SIYI FPV app has been upgraded to be compatible with SIYI AI tracking module.

4. Run SIYI FPV app, go to "Settings - Addresses", and select "SIYI AI Camera".
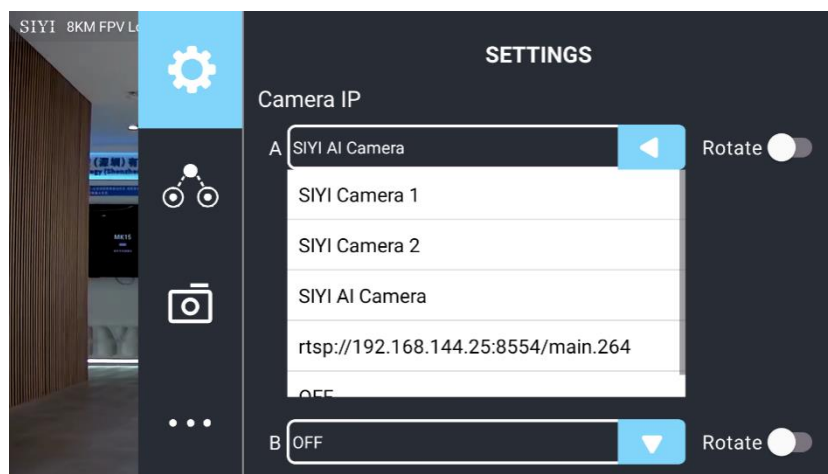
5. Return to main image, touch the AI tracking function button to enable the function.

6. Touch the button again to disable the function.

⭕ **Mark**

Using SIYI AI tracking module with multiple-sensor optical pods, in SIYI FPV app, the main stream of the optical pod should be configured as zoom camera.

2.2.2 Target Recognition

When the AI tracking module is enabled, and recognizable targets go in the image, they will be surrounded with white recognition boxes. Function is working normally.

2.2.3 Target Tracking

Touch the white recognition box in the image, the box turns blue, and the AI tracking function button turns green. Gimbal camera starts to track the target.

⬤ **Mark**

Zoom camera will zoom simultaneously during target tracking to keep the target displaying in the center of the image. And the zoom multiples will be displayed as well.

2.2.4 Target Follow

When the AI tracking function is activated, integrate SIYI optical pod (gimbal camera) with flight controller of their attitude data, and switch flight controller flight mode to guided mode to turn on target follow function.

Steps

1. Please refer to the picture below to connect SIYI optical pod (gimbal camera) to flight controller and integrate attitude data.

2. Confirm if the flight controller integration button shows up (which means flight controller attitude data is integrated).

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3. Switch flight mode to "Guided" and configure the max flight speed.

4. Touch the AI follow button to enable target follow function.

5. Touch the AI tracking / follow button again to disable the function.

⚠ **DANGER**

Considering flight safety, it is recommended to use the AI follow function and obstacle

avoidance function together.

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When the AI follow function is activated, the operator will not be able to manually control the flight, and the ground station cannot use the guided mode to control the aircraft. Switching flight mode can regain control.

When the AI follow function is activated, please ensure that the view on the follow route is clear and free of obstacles, and always pay attention to flight safety. When encountering obstacles, please immediately take over the flight manually and re-plan the route.

When the tracking target is lost, the aircraft will hover.

⬤ **Mark**

When the tracked object is higher than the multi-rotor drone on the horizontal plane, AI follow function does not work; when the tracked object and the multi-rotor drone are on the same horizontal plane, AI follow function works best.

3 HOW TO CONFIGURE THE MODULE

SIYI AI tracking module can be configured through SD card, so does firmware upgrade.

🔴 **Mark**

It is suggested to format the SD card to FAT32 before firmware upgrade.

It is suggested to insert the SD card to the AI tracking module and run it for a while, then you will see the files related to module configuration.

The two ".txt" files in the root category of the SD card are for checking and changing module configuration.
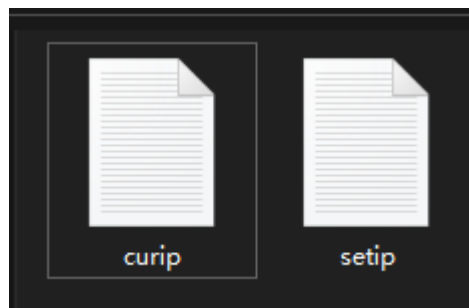
"curip.txt" for checking the current IP addresses.

"setip.txt" for customers to change IP addresses.

3.1 IP Addresses

3.1.1 Check IP Addresses

Open the "curip.txt" file, you will see the current IP addresses and gateway of the

AI tracking module.

"192.168.144.60" is the factory default module IP addresses.

"192.168.144.12" is the factory default module gateway.

3.1.2 Change IP Addresses

Open the "setip.txt" file, input the IP addresses you need after "IP = ".

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Then insert the SD card to the module and power it. After three to five minutes, the new IP addresses will be flashed into module. Then we restart the module to finish changing IP addresses.

🔴 **Mark**

In SIYI FPV app, the default IP addresses for "SIYI AI Camera" is "192.168.144.60". After changing module IP addresses, it is necessary to manually input the relevant IP addresses in SIYI FPV app to acquire video & data stream from the AI tracking module. When you are using SIYI AI tracking module with SIYI gimbals and SIYI links, please do configure its IP addresses within "192.168.144.X" and avoid conflicting with their existing IP addresses. Please refer to the "Common IP Addresses" chapter in SIYI link and SIYI gimbal manuals for detail.

3.2 Client (Gimbal Camera) Addresses

3.2.1 Check Client Addresses

Open the "curip.txt" file, you will see the current client addresses and communication port of the AI tracking module.

```
[ClientInfo]
VideoAddress=192.168.144.25
VideoPort=37256
```

"192.168.144.25" is the current client addresses.

"37256" is the client communication port.

3.2.2 Change Client Addresses

Open the "setip.txt" file, input the client addresses you need after "VideoAddress =", input the communication port after "VideoPort =".

```
[ClientInfo]
VideoAddress=
VideoPort=
```

Then insert the SD card to the module and power it. After three to five minutes, the new IP addresses will be flashed into module. Then we restart the module to finish changing IP addresses.

⬤ Mark

The default IP addresses for SIYI cameras is "192.168.144.25". If you have changed camera IP addresses, it is necessary to manually input the relevant client addresses for SIYI AI tracking module to establish video & data stream between the AI tracking module and the gimbal camera.

3.3 Firmware Upgrade

3.3.1 Check Firmware Version

Open the "curip.txt" file, you will see the current firmware version of the AI tracking module.

[FW_VERSION]
Version=0.0.8

3.3.2 Firmware Upgrade Steps

Before upgrading, it is necessary to prepare the tools, software, and firmware below.

● SD / TF card

⬤ **Mark**

Customers should prepare the above tools.

● SIYI AI Tracking Module Firmware

⬤ **Mark**

Above tools can be downloaded from the "Downloads" page on SIYI official website (https://siyi.biz/en).

Steps

1. Save the module firmware's ".bin" file to the SD / TF card's root directory and do not change the file name.

名称 ^	修改日期	类型
📄 SIYI_AI_UpgradeSD.bin	2023/9/23 14:56	BIN 文件

2. Insert the SD card with saved firmware to SIYI AI tracking module and power it.

3. Wait for three to five minutes, camera firmware will be flashed automatically and disappear from the SD card.

4. Restart the module to make the configuration work.

3.4 Reset Module Configuration

You can reset SIYI AI tracking module to factory configuration by pressing the RST button for five seconds.

3.5 Common IP Addresses

SIYI AI Tracking Module's Default IP Addresses: 192.168.144.60

SIYI Optical Pod / Gimbal Camera's Default IP Addresses: 192.168.144.25

(NEW) SIYI Optical Pod / Gimbal Camera's Default RTSP Addresses:

● SIYI AI Camera: rtsp://192.168.144.60/video0

● Main Stream: rtsp://192.168.144.25:8554/video1

● Sub Stream: rtsp://192.168.144.25:8554/video2

(NEW) SIYI FPV App's Private Video Stream Protocol's Addresses:

● SIYI AI Camera: 192.168.144.60:37256

● SIYI Camera 1 Main Stream: 192.168.144.25: 37256

● SIYI Camera 1 Sub Stream: 192.168.144.25: 37255

● SIYI Camera 2 Main Stream: 192.168.144.26: 37256

● SIYI Camera 2 Sub Stream: 192.168.144.26: 37255

🔴 **Mark**

SIYI cameras released after ZT30 (including ZT30) start to use the new addresses.

SIYI cameras released before ZT30 (including ZR30, A2 mini, A8 mini, ZR10, and R1M) are stilling using the old addresses.

3.6 Main Firmware Update Log

Date	2024-01-26
Version	0.1.1
SIYI FPV Windows	Original Version
SIYI FPV Android	2.5.15.695
Updates	1. New (ZT30, ZR30): AI follow function (only for multi-rotor drones) 2. New: Support SIYI AI tracking module SDK (not provided as a standard product / service, please inquire your sales representative for detail).

4 SIYI FPV APP

SIYI FPV is an Android application developed by SIYI to configure many SIYI products for video display, camera stream settings, and communication link status monitoring.

⭕ **Mark**

This chapter is edited based on SIYI FPV App v2.5.15.691.

SIYI FPV App can be downloaded from SIYI official website:

https://siyi.biz/en/index.php?id=downloads&asd=427

SIYI FPV App compatible SIYI devices
- ZT6 Mini Dual-Sensor Optical Pod
- SIYI AI Tracking Module
- ZT30 Four-Sensor Optical Pod
- ZR30 4K AI 180X Hybrid Zoom Optical Pod
- A2 mini Ultra-Wide-Angle FPV Gimbal
- MK32 / MK32E Enterprise Handheld Ground Station
- A8 mini AI Zoom Gimbal Camera
- ZR10 2K 30X Hybrid Zoom Optical Pod
- R1M HD Recording FPV Camera
- Air Unit HDMI Input Converter
- HM30 Full HD Image Transmission System
- MK15 / MK15E Mini Handheld Ground Station

SIYI FPV App OSD Information Definition
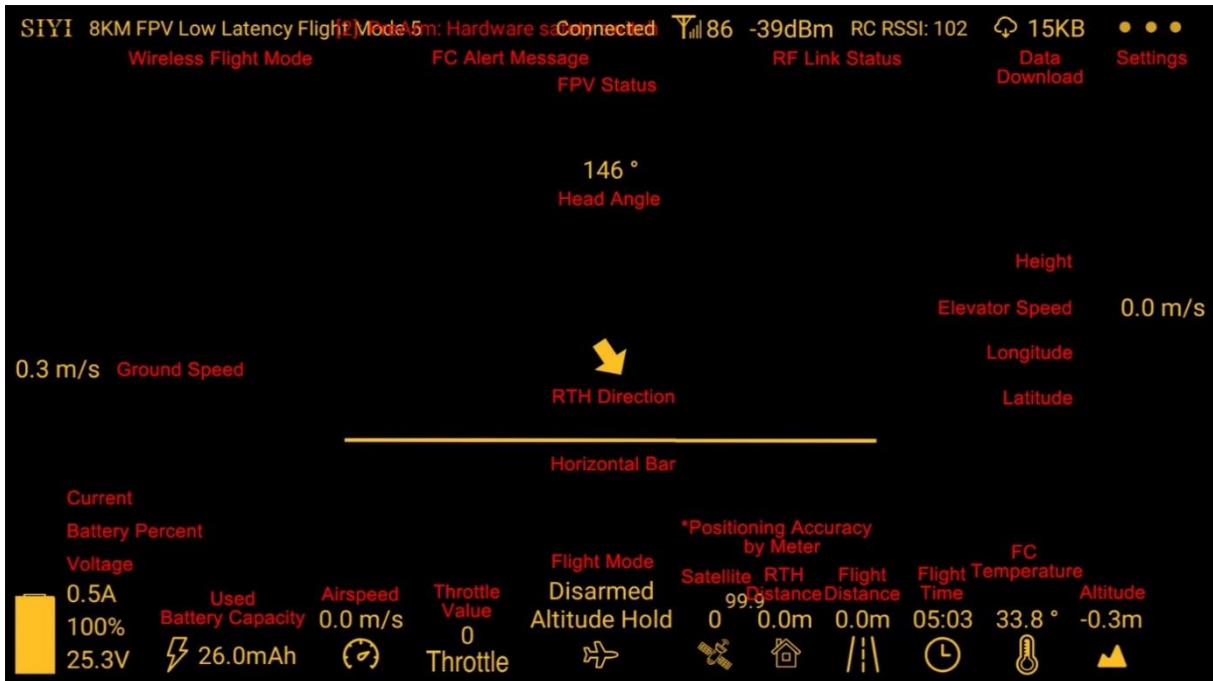
SIYI FPV Camera Function Icon Definition

4.1 Settings

In "Settings" page, you can select camera type with stream type, select or input

video stream IP addresses, custom app interface, and switch video decoding type.
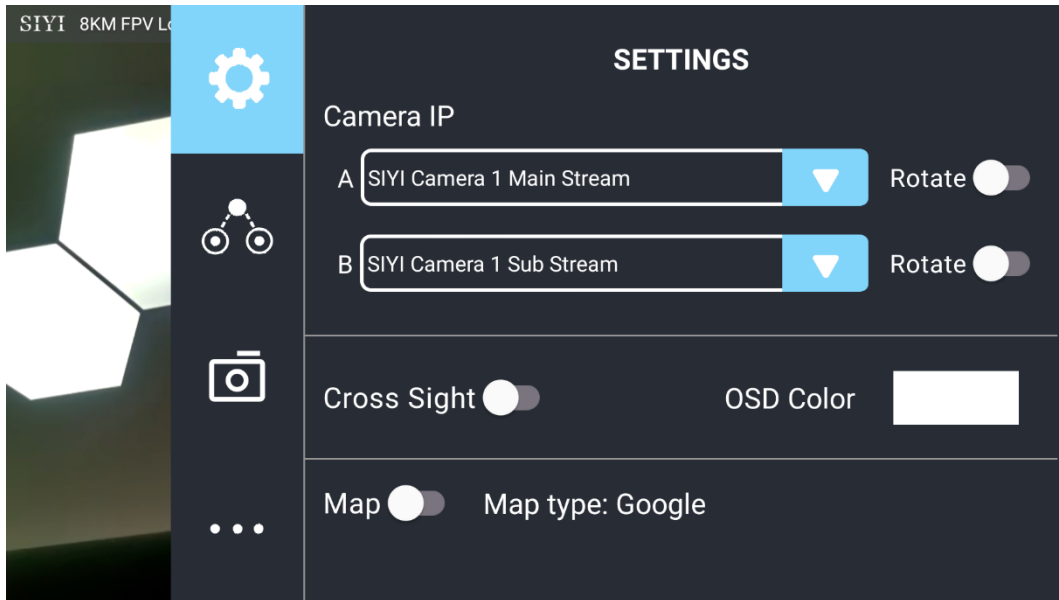
About Settings

Camera IP: Select among SIYI AI Camera, SIYI Camera 1 and SIYI Camera 2, between

main stream and sub stream, select or input video stream RTSP addresses, disable image,

or rotate the relevant image in 180 degrees.

Cross Sight: Enable / disable a cross sight in the center of the image.

OSD Color: Custom the color of all OSD information.

Map: Enable / disable the map box over the left-bottom corner of the image.

Map Type: Switch map type (currently between Baidu and Google).

4.2 Link Status

Display the link status directly over the FPV image.
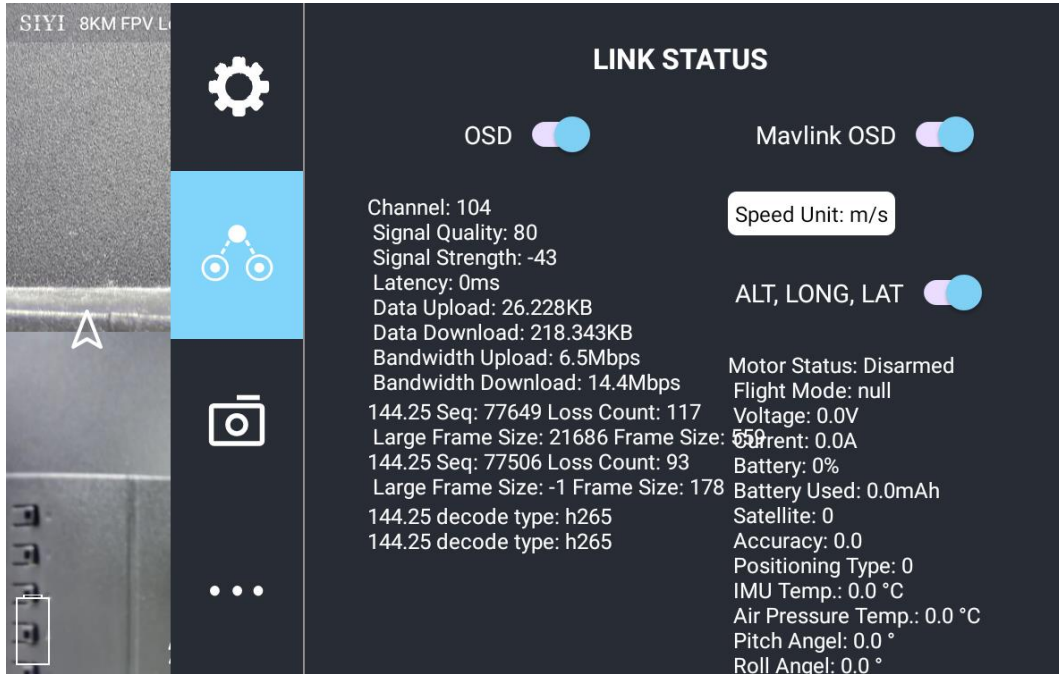
About Link Status

OSD: Enable / disable standard OSD information.

Mavlink OSD: Enable / disable Mavlink OSD information.

Speed Unit: Switch speed unit between meter per seconds and kilometer per hour.

Longitude and Latitude: Enable / disable information.

4.3 Gimbal Camera

Configure the abundant functions of SIYI optical pod and gimbal camera.
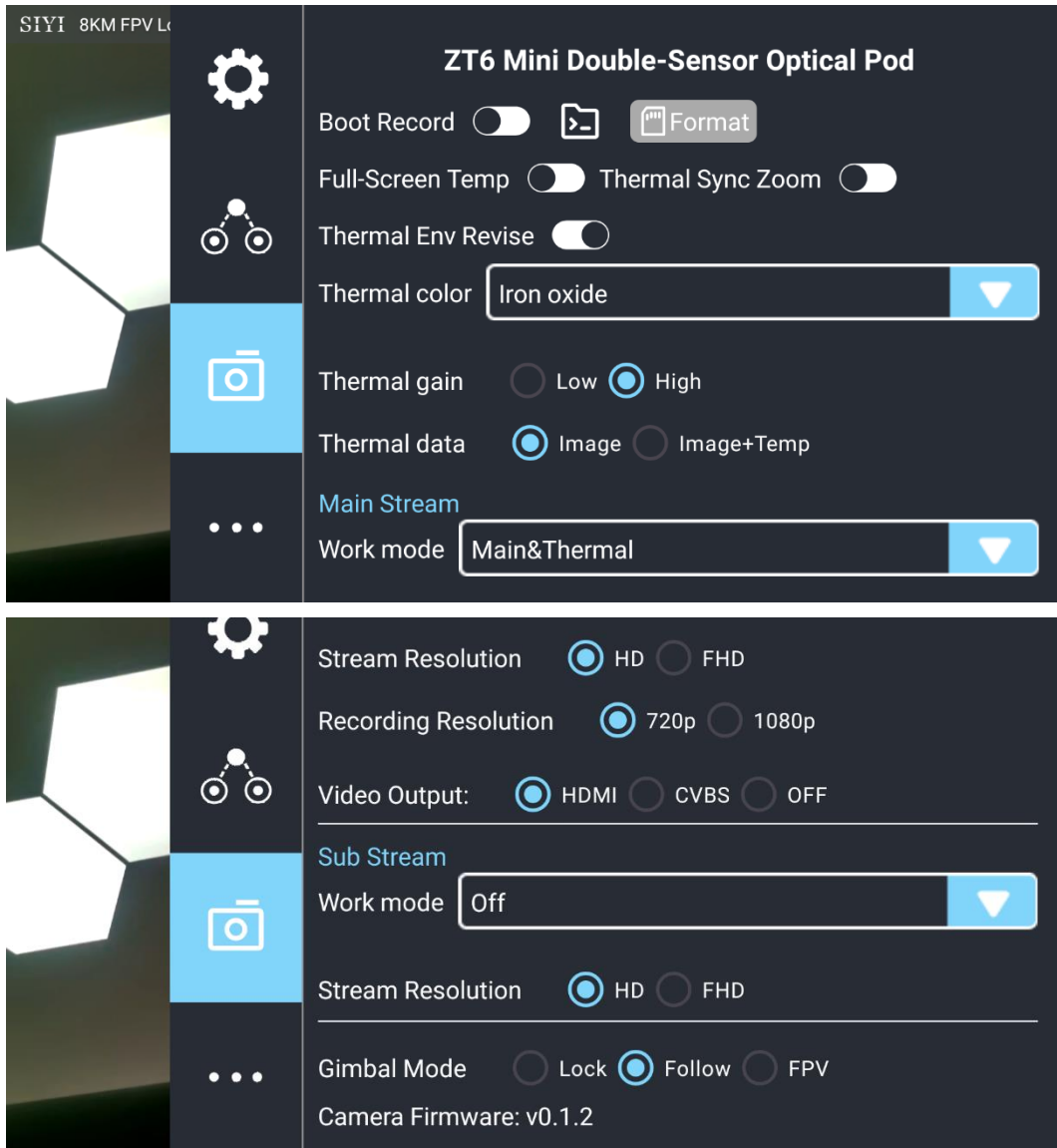
About Gimbal Camera

Boot Record: Enable / disable automatic video recording by SD card as soon as the camera

is powered.

File Manager: Preview stored images in TF card. Format the TF card.

Laser Calibration: The target position in the camera image may need to be calibrated to

match the accurate laser rangefinder orientation. (Only available for ZT30)

Full Image Thermometric: Enable / disable the full image temperature measurement feature in the thermal imaging camera.

Synchronize Zoom: Enable / disable simultaneous zooming of the thermal camera and the zoom camera.

Thermal Calibration: To calibrate the thermal camera by changing environment elements.

Thermal Palette: Assign different color solutions for the thermal imaging camera.

Thermal Gain: Switch between low gain and high gain for the thermal imaging camera.

Thermal RAW: Choose to include the RAW data in thermal images or not.

Main / Sub Stream: Configure the main stream and the sub stream separately for their camera source and parameters.

Image Mode: Select the video stream's image type and camera source. Single image or split image. Zoom camera, wide angle camera, or thermal imaging camera.

Stream Resolution: Decide to switch the output resolution of the current video stream or not according to camera source. Max output resolution is Ultra HD (1080p).

Record Resolution: Decide to switch the recording resolution or not according to camera source. Max record resolution is 4K.

Video Output Port: Switch the video outputting ports.

- HDMI: Through the gimbal camera's Micro-HDMI port.

- CVBS: Through the CVBS pin in the gimbal camera's Ethernet port to output videos in analog signal (Only available for ZT6 and A8 mini).

- OFF: Through the gimbal camera's Ethernet only.

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Gimbal Working Mode: Switch gimbal working mode among Lock Mode, Follow Mode, and FPV Mode.

- Lock Mode: Horizontally, gimbal does not follow when aircraft rotates.

- Follow Mode: Horizontally, gimbal follows when aircraft rotates.

- FPV Mode: Gimbal rotates simultaneously as aircraft rolls to get FPV view, and output images with enhanced stability.

- AI Tracking: When the gimbal is connected to the AI tracking module and the AI tracking function is activated. It will be AI tracking mode only.
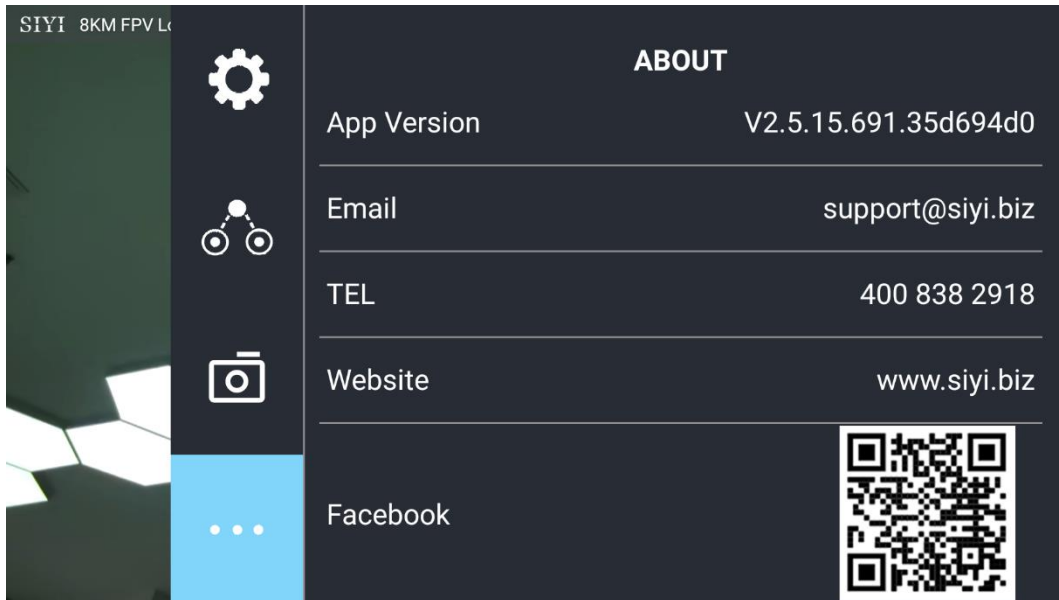
Camera Firmware Version: Display current camera firmware version.

Gimbal Firmware Version: Display current gimbal firmware version.

Zoom Firmware Version: Display current gimbal firmware version (Only available for optical zoom cameras).

4.4 About SIYI FPV

Displays the software version of SIYI FPV and common contact information of SIYI Technology.

4.5 SIYI FPV App Update Log

Date	2024-01-26
Version	2.5.15.695
Updates	1. New: Support AI follow function.

Date	2023-12-18
Version	2.5.15.691
Updates	1. Fix: Temperature data still shows on image after switching to optical cameras from thermal camera. 2. New (A8 mini): Enable OSD watermark on recording images. 3. New: Both video streams can turn on / off recording. 4. New (SIYI AI Tracking Module): A switch for flight tracking. 5. New (Thermal): A switch for thermal gain. 6. New (Thermal): A switch for thermal calibration. 7. New (Thermal): A switch for thermal RAW. 8. Fix: Camera control interface bug when two different cameras are plugged.

Date	2023-10-20
Version	2.5.15.679
Updates	1. New: AI recognition and tracking function control interface. 2. New (ZT30): Zoom & thermal camera simultaneous recording function control interface. 3. New: Add the AI tracking module to IP addresses settings. 4. Improve: Occasionally video stream does not recover when the link is disconnected under SIYI camera protocol.

Date	2023-08-24
Version	2.5.15.660
Updates	1. New (ZT30): Laser calibration. Display laser ranging target's coordinates. 2. New: Support TF format. 3. New (ZT30): Thermal color palette. 4. New: File manager to preview stored pictures in TF card. 5. Improve: New icon indication for missing TF card.

| Date	2023-07-31
Version	2.5.14.644
Updates	1. New: Status indication for successfully integrated flight controller attitude data. 2. New: Google map is supported. 3. Fix: Flight controller location was no accurate. New icons for flight controller location and device location. 4. New: Status indication for missing TF card.

4.6 SIYI FPV SDK Guide

SIYI provides the SIYI FPV SDK to help professional Android application developers to integrate the unique features in SIYI FPV app to their own GCS.

4.6.1 Access Method

a) Add "fpvlib" into Your Project

Copy the "fpvlib.aar" file to the "libs" folder in your "module" like below:
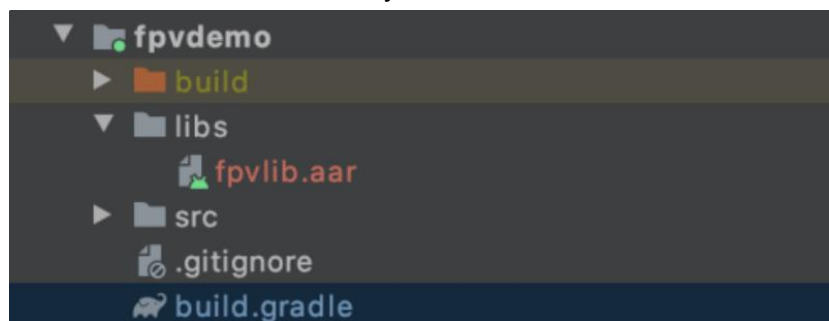
Revise the "build.gradle" file:

b) Configure "AndroidManifest" File

Add USB reading authorization to the "AndroidManifest" file in your "module" and configure the "intent-filter" file.

c) Add FPV Display Function into Code

Add JNI Library

Like the example below, add JNI library file into the "main" directory, then the "so" library file can be copied from "demo" to your project directory.
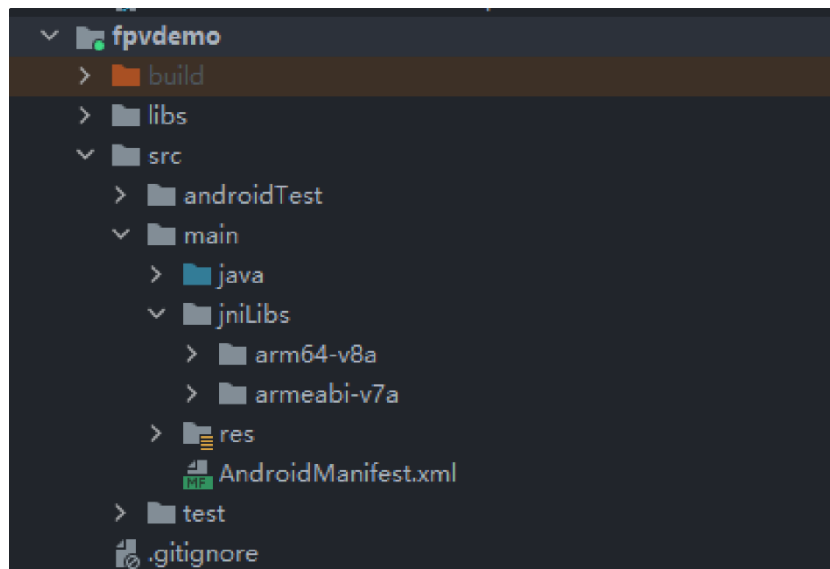
Add FPV Video Display to Code

Please pay attention to the below points for your code:

- Firstly, use the static method "getInstances()" of "ConnectionManager" to get the "ConnectionManager" object. Then call the "ConnectionManager.checkConnectWithIntent()" method in the lifecycle method "onCreate()" and "onNewIntent()".
- Video stream should be displayed through "SurfaceView". So, we create an "SurfaceView" object and need to call "ConntionManager.notifySurfaceCreate()" and "notifySurfaceDestroy" method from "surfaceCreated()" and "surfaceDestroy()".

```
mSurfaceView.getHolder().addCallback(new SurfaceHolder.Callback() {
@Override
public void surfaceCreated(SurfaceHolder holder) {
Logcat.d(TAG, "onSurfaceCreated...");
mConnectionManager.notifySurfaceCreate(holder.getSurface());
}
@Override
public void surfaceChanged(SurfaceHolder holder, int format, int width
, int height) {
}
@Override
public void surfaceDestroyed(SurfaceHolder holder) {
mConnectionManager.notifySurfaceDestroy(holder.getSurface());
}
});
```

● Dual-Channel FPV Display:

Dual-channel FPV display supports Ethernet connection only. It does not support AOA or USB connection. For dual-channel FPV display, we should configure the IP addresses first, then create two "SurfaceView" for image display. Whether the second video stream is required or not can be judged by the connection type through connection status. You can refer to "demo" for detail.

● When you quit the application, please do not forget to call the "UsbConnectionManager.release()" method.

For more detail, please refer to the codes in "demo".

4.6.2 Interface Instructions

ConnectionManager

Name	Description
getInstance(Context context)	Single case method for "ConnectionManager"
setWirelessUrl(String url1, String url2)	Set the addresses for video stream.
checkConnectWithIntent(Intent intent)	Initial the connection.
notifySurfaceCreate(Surface surface)	Notify that the first "Surface" is created, the "Surface" is for video display.
notifySurfaceDestroy(Surface surface)	Notify that the first "Surface" is destroyed.
notifySecondSurfaceCreate(Surface	Notify that the second "Surface" is

surface)	created, the "Surface" is for video display.
notifySecondSurfaceDestroy(Surface surface)	Notify that the second "Surface" is destroyed.
setConnectionListener(ConnectionListener listener)	Set callback for the connection status.
setFrameListeners(FrameListener frameListener, FrameListener secondFrameListener)	Set callback for video stream.
getSDKVersion()	Request SDK version.
release()	Release SDK.

SettingsConfig

Name	Description
SettingsConfig.getInstance().initConfig(context)	**Initialize the settigns. This method must be called.**
setLogEnable(boolean)	Set if print the log in the sdk. It is suggested to disable print in the "release" version.
setDecodeType(Context context, @IDecodeListener.DecodeType int decodeType)	Set decoding type. In default it is hardware decoding.
setSupportWirelessConnection(Context context, boolean supportWireless)	Set if to support Ethernet connection method.
setRectify(Context context, boolean rectify)	Set if to activate the video stream distortion correction function. The function is disabled in default and is only for A2 mini FPV gimbal at this moment. It works only when the video stream addresses is "RtspConstants.DEFAULT_TCP_VIDEO_URL" "SUB_TCP_VIDEO_URL". Attention： If distortion correction is activated, when you switch from SIYI camera addresses "RtspConstants.DEFAULT_TCP_VIDEO_URL" "SUB_TCP_VIDEO_URL" to RTSP addresses, new surface objects should be imported. One way to do this is to remove "SurfaceView" and add a new "SurfaceView" through "addView", then import the "Surface" object again in

	"SurfaceHolder.Callback".
getCameraManager()	Request camera control objects. SYSDKCameraManager

SYSDKCameraManager

Name	Description
/** * Set Camera Resolution * @param streamType： * [CameraInfo.STREAM_MAIN], [CameraInfo.STREAM_SUB]. * @param resolution： [CAMERA_RESOLUTION_SD] 480p, [CAMERA_RESOLUTION_HD] 720p, [CAMERA_RESOLUTION_FHD] 1080p. * [CAMERA_RESOLUTION_2K] 2K, [CAMERA_RESOLUTION_4K] 4K, */ fun setResolution(cameraIndex: Int, @CameraInfo.StreamType streamType: Int, @CameraResolution resolution: Int)	Set camera resolution.

4.7 SIYI FPV SDK Update Log

Version	2.5.15
Updates	1. Fix the issue that RTSP stream may blurr. 2. Add camera control interface. 3. Fix some other known issues. Mark: It is necessary to update the "so" and "aar" file, which can be updated frm the "aar_so" folder.

Version	2.5.14
Updates	1. Fix some issues which causes anormal in JNI library (need to update "so" library). 2. Fix some other known issues. Mark: It is necessary to update the "so" and "aar" file, which can be updated frm the "aar_so" folder.

Version	2.5.13
Updates	1. Fix the issue that the video stream of some IP65 cameras may blurr. 2. Add to support ZT30 camera video stream. Mark: It is necessary to update the "so" and "aar" file, which can be updated frm the "aar_so" folder.

5 After-sale Service

If there were any questions or problems using SIYI Technology's product, you can always try to send an email to SIYI Official A/S Center (support@siyi.biz) or consult your sales representative or dealer for answers or solutions.

5.1 Repair Service

If your purchased SIYI products cannot work properly, please contact SIYI Official A/S Center for consulting.

Usually there are two situations for acquiring repair service.

● Product Defect

● Product Damage

SIYI products under the two situations can be sent back to SIYI for repairing. Defect products with valid warranty can be repaired for free. Defect products without valid warranty or damaged products should be charged of repair fees after repairing. Please refer to SIYI's Official A/S Quotation for detail.

5.2 Warranty

SIYI Technology guarantees that, subject to the following conditions, Return & Refund Service, Replacement Service, and Warranty Repair Service can be requested. Please contact SIYI directly (support@siyi.biz or your sales representative) or authorized SIYI dealer for more detail.

5.2.1 7-Day Return & Refund

You can request Return & Refund Service:

Within seven (7) days of receiving a product if the product has no manufacturing defect, has not been activated and is still in new or like-new condition.

Within seven (7) days of receiving a product if the product has a manufacturing defect.

Return & Refund Service will not be provided where:

It is requested beyond seven (7) calendar days of receiving a product.

A product sent to SIYI for Return & Refund Service does not include all original accessories, attachments or packaging, or any item is not in new or like-new condition, i.e., with cracks, dents, or scratches.

A legal proof of purchase, receipt or invoice is not provided or is reasonably believed to have been forged or tampered with.

Any fault or damage of the product is caused by unauthorized use or modification of the product, including exposure to moisture, entry of foreign bodies (water, oil, sand, etc.) or improper installation or operation.

Product labels, serial numbers, waterproof marks, etc. show signs of tampering or alteration.

Damage is caused to the product by uncontrollable external factors, including fire, floods, high winds, or lightning strikes.

A product is not delivered to SIYI within seven (7) calendar days after Return & Refund Service confirmation is sent from SIYI.

Other circumstances stated in this policy.

5.2.2 15-Day Replacement

You can request Replacement Service:

Within fifteen (15) calendar days of receiving the product if the product has sustained a substantial damage in transit, provided always that the damage proof issued by the carrier can be provided to SIYI.

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Within fifteen (15) calendar days of receiving the product if the product does not match the original description of the product in one or more significant respects.

Within fifteen (15) calendar days of receiving the product if the product suffers performance failure.

Replacement Service will not be provided where:

Service is requested more than fifteen (15) calendars days after receiving a product.

Legal proof-of-purchase, receipts, or invoices are not provided, or are reasonably believed to have been forged or tampered with.

A product sent to SIYI for replacement does not include all original accessories, attachments, and packaging, or contains items damaged by user error.

A product is found to have no defects after all appropriate tests are conducted by SIYI.

Any fault or damage of the product is caused by unauthorized use or modification of the product, including exposure to moisture, entry of foreign bodies (water, oil, sand, etc.) or improper installation or operation.

Damage is caused by uncontrollable external factors, including fires, floods, high winds, or lightning strikes.

Received product has not been sent back to SIYI seven (7) calendar days after replacement confirmation from SIYI.

Proof of damage during transit issued by the carrier cannot be provided.

Other circumstances stated in this policy.

5.2.3 1-Year Warranty Repair

You can request warranty repair service:

If a product does not function as warranted during the warranty period, you may obtain after-sales service by contacting SIYI's service center. You will need to provide a valid proof-of-purchase, receipt, or order number for the warranty service.

Charges may apply for services not covered by this Limited Warranty. Please contact SIYI for information specific to your location.

Please note that the warranty service is only available in the respective SIYI service regions where you purchased your SIYI product.

Warranty Repair service will not be provided where:

Crashes or fire damage caused by non-manufacturing factors, including but not limited to pilot errors.

Damage caused by unauthorized modification, disassembly, or shell opening not in accordance with official instructions or manuals.

Damage caused by improper installation, in correct use, or operation not in accordance with official instructions or manuals.

Damage caused by non-authorized service provider.

Damage caused by unauthorized modification of circuits and mismatch or misuse of the battery and charger.

Damage caused by operation in bad weather (i.e., strong winds, rain, sand/dust storms, etc.)

Damage caused by operating the product in an environment with electromagnetic interference (i.e., in mining areas or close to radio transmission towers, high-voltage wires, substations, etc.)

Damage caused by operating the product in an environment suffering from interference from other wireless devices (i.e., transmitter, video-downlink, Wi-Fi signals, etc.)

Damage caused by reliability or compatibility issues when using unauthorized third-party parts.

Damage caused by operating the unit with a low-charged or defective battery.

Products or parts with an altered identification label or from which the identification label has been removed.

SIYI Technology

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