EH314 TIR 4K Dual Sensor Zoom Camera with 3-axis Gimbal

14X Zoom, 12 Megapixels

Vanadium Oxide Uncooled Infrared Camera, Temperature Measuring (Option)

3-Axis Gimbal, ±0.008° Control Accuracy

Point to Zoom, One-click-to-center, Mouse or Touch Screen Operation Supported

Ethernet Video Output

Object Tracking

Parameter
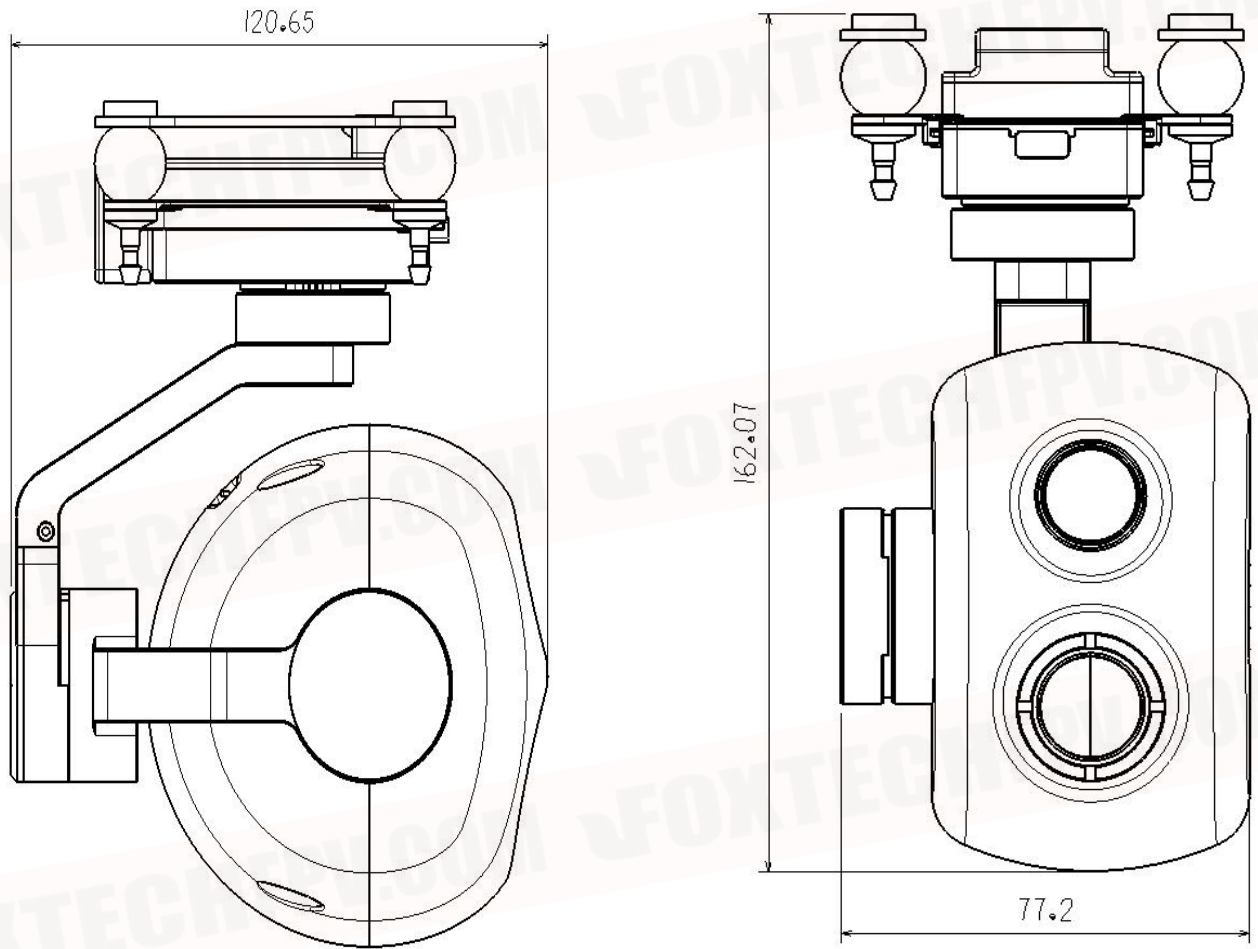
Parameter	
Voltage	12V-25V
Power	＜ 6W
Total Weight	457g
Memory Card	Micro SD Card (Max 128G)
Dimension	121*77*142mm (without IDU)
Interface	Ethernet
Control/Display	Windows PC；Android, Panel
Real-time Resolution	IR：704*576 EO：720P, 1080P
Ambient Parameter	
Working Temperature	-10°~45°
Storage Temperature	-20°~70°
Gimbal Parameter	
Control Accuracy	±0.008°
Mounting Type	Quick-Mounting
Rotation Range	Pitch：+70° to -90°；Yaw：360°
Mechanical Range	Pitch：+75° to -100° Yaw：360°；Roll:+90° to -50°
Max Control Speed	Pitch：120º/s; Yaw: 180º/s
Object Tracking	Support
Camera Parameter	

EO	
Sensor	CMOS:1/2.3″; Pixels 12.71MP; Resolution 4000*3000 max
Lens	3.5X optical zoom F 3.85~13.4mm Minimum shooting range: 1mm~3mm (near-focus~far-focus) FOV (Horizontal): 82°~25°
Image Storage Format	JPEG
Video Storage Format	MP4
Working Mode	Video Recording; Photo taking
DEFOG	Electronic Fog Reduction/Optical Fog Reduction(Auto on)
Exposure	Auto
Resolution	25fps(3840*2160) 25fps(1920*1080) Max capture resolution: (4000*3000)
2D Noise Reduction	Support (Auto on)
3D Noise Reduction	Support (Auto on)
Electronic Shutter	1/3~1/30000s
Exposure	Auto mode;
OSD	Support
Point to Zoom	Support
Zoom Range	1~14X
One-click back to 1X	Support
Thermal Imaging	
Detector Type	Vox Uncooled Infrared Focal Plane Detector
Resolution	704*576
Sensitivity	≤50mk@25℃，F#1.0
Frame Rate	50Hz
Lens	19mm fixed-focus
F number	1.0
Pixel Spacing	12μm
Response Wave Band	8~14 μm
Measuring Accuracy	±3℃ or ±3% of the reading（chose thelarger value） @Ambient Temperature -20℃～60℃
Temperature Measuring	(Point, Line, Area) Real-time Low/High temperature display. In addition, up to 12 additional temperature measurement points,

	lines and areas can be set in the lens coverage area according to your need.
High Temperature Warning	High Temperature Warning Supported
Thermal Image Resolution	Main stream: 25fps (704x576, 384x288) Sub stream: 25fps(704x576, 384x288)

Dimension:

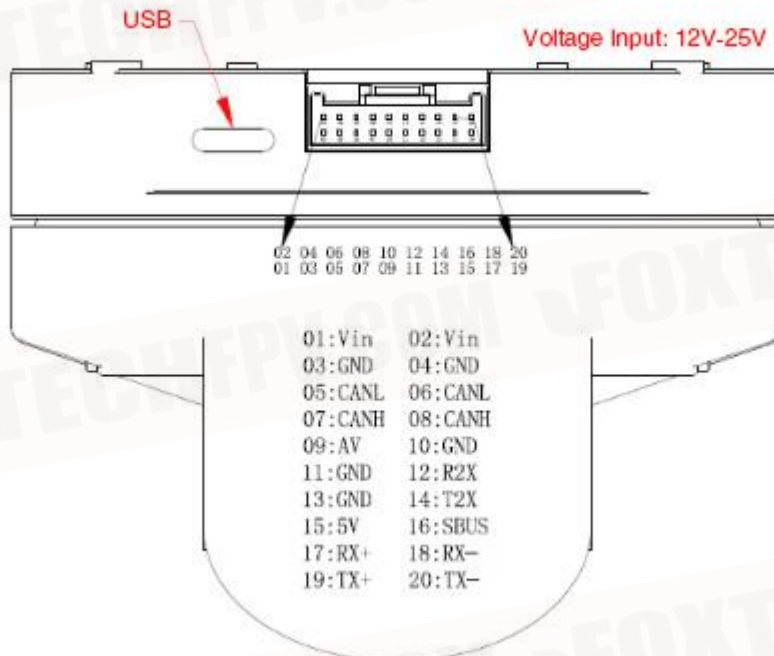# Product Operation Instruction

1. Interface Description

1.1 Interfaces on the IDU Mini

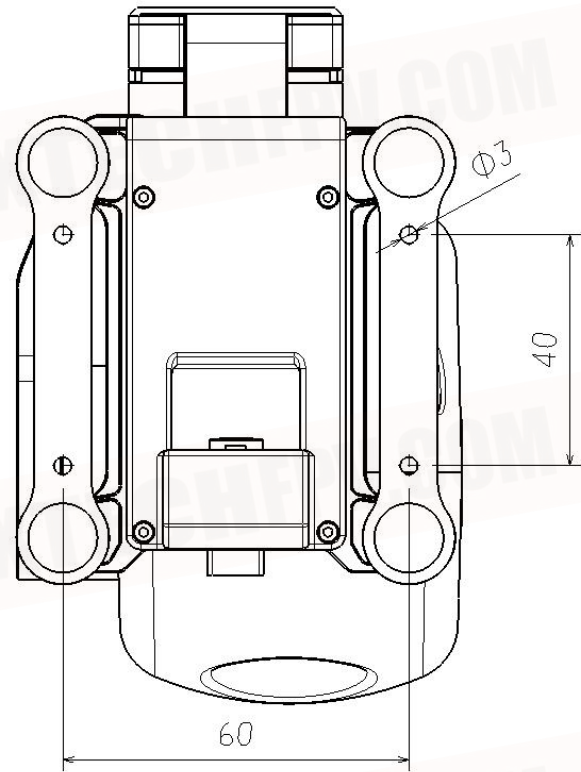Power： 12-25V　　4P Ethernet Port: for connection to the computer

SBUS Interface

Wiring Definitions

USB

Voltage Input: 12V-25V

02 04 06 08 10 12 14 16 18 20
01 03 05 07 09 11 13 15 17 19

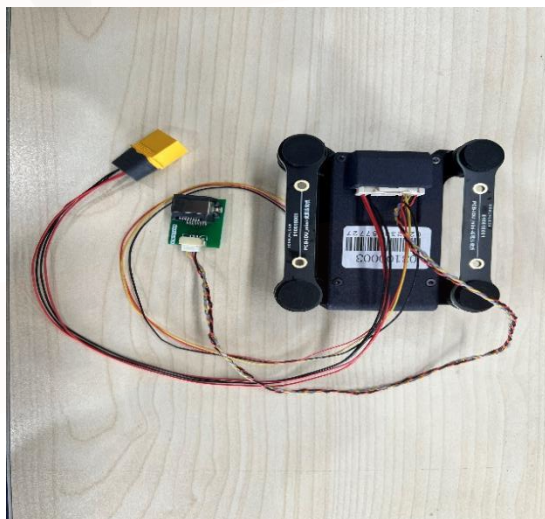|	
01:Vin	02:Vin
03:GND	04:GND
05:CANL	06:CANL
07:CANH	08:CANH
09:AV	10:GND
11:GND	12:R2X
13:GND	14:T2X
15:5V	16:SBUS
17:RX+	18:RX-
19:TX+	20:TX-

2. Installation and Connection Instructions

2.1 Punching holes for installation according to the IDU mini quick-mount structure, the hole size and the quick-mount plate dimension.

2.2 Plug the Ethernet port converter into the 4P Ethernet port and connect the computer with a network cable.
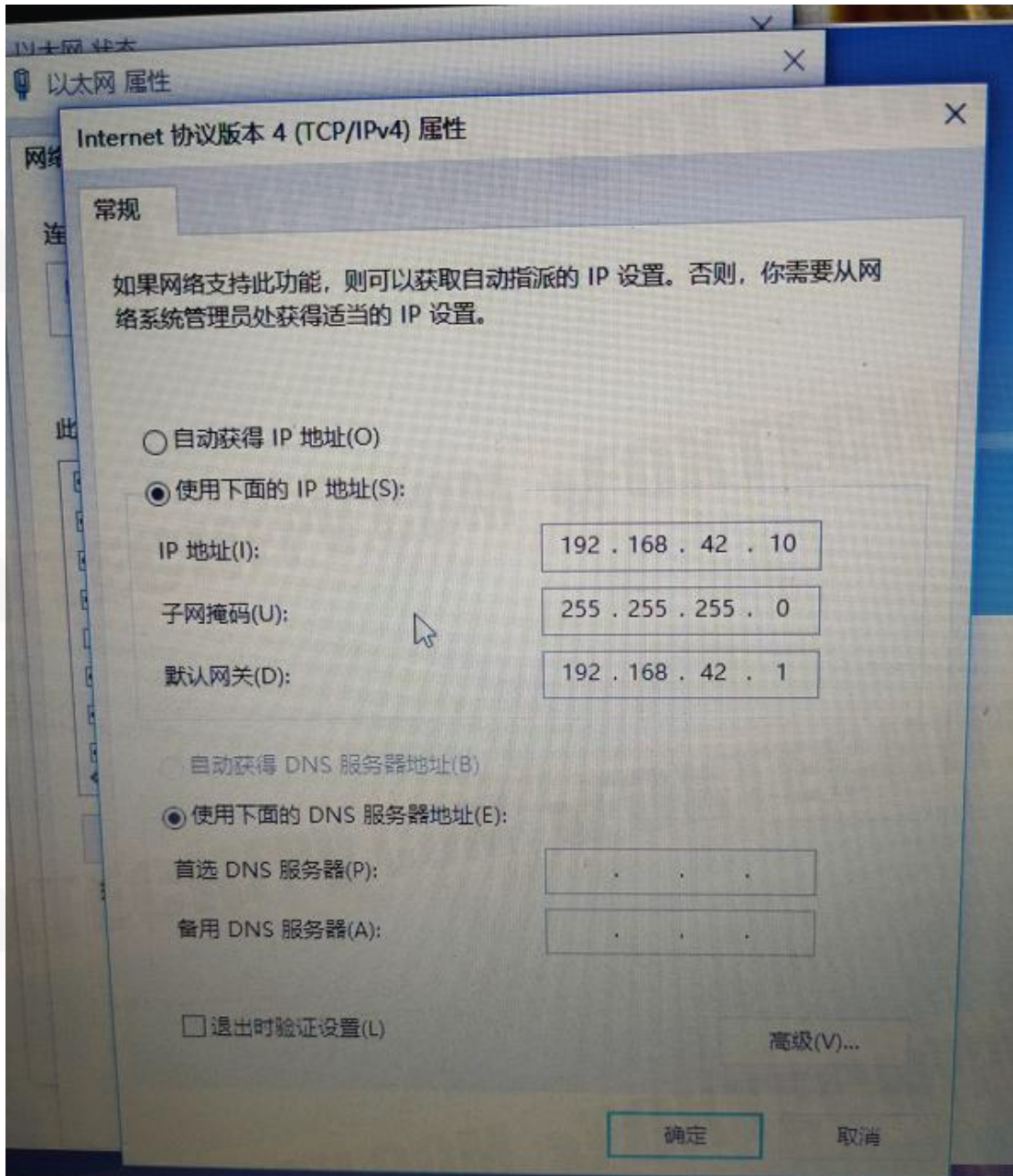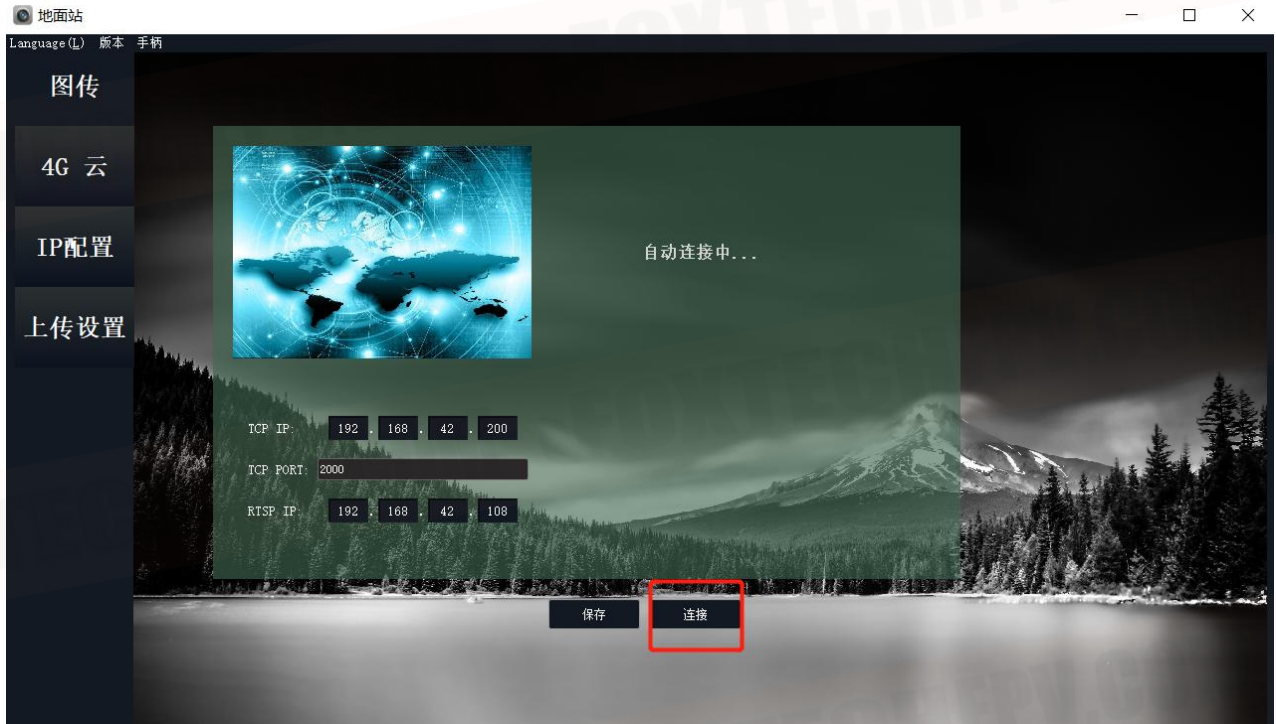

Ethernet Port Converter

3. Software Connection and Debugging

Connect the computer with a network cable, then set the computer IP address: 192.168.42.10 subnet mask: 255.255.255.0 default gateway (ignore) (the camera's default IP is 192.168.42.108; gateway default IP is 192.168.42.200), power on the gimbal camera, connect the gimbal camera to the computer with a network cable, approximately 15 seconds after normal operation of the gimbal, the computer recognizes the camera network. TCPIPV4 is set as follows, confirm and save:

4. The Use of GCS Software

Open the GCS software and click on "Connect", successful image acquisition as shown below:

5. GCS Function Description

Setting Area

Interface Switching

PIC Taking
REC
One-click -to-ground
One-click-to-center
Follow Mode
Manual Focus+
Auto Focus
Manual Focus-
Object Tracking

Camera Setting