

QZ20T

3-axis Mechanical Stabilization Electro-Optical Pod



Applications

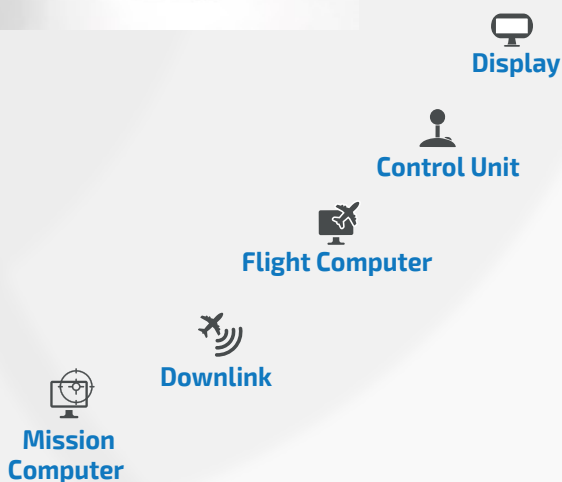
- Public Security
- Fire Fighting
- Electrical Inspection
- Photovoltaic Inspection
- Forest Fire Prevention
- Search&Rescue

Technical info:

KG	≤3kg
∅	166mm

3-axis Mechanical Stabilization Electro-Optical Pod

Features



SPECIFICATIONS

Power (No Tracking) : Working power $\leq 40W$, peak power $\leq 150W$
 Control Angel Range : $+135^{\circ} \sim -45^{\circ}$
 Course Range : $360^{\circ} \times N$
 Turning Range : $\pm 40^{\circ}$
 Rotation Speed : $0.05 \sim 100^{\circ} / S$
 Turning Max. Acceleration : $30^{\circ} / S^2$
 Stabilization Accuracy : $0.1mrad$
 Tacking Module : Outside

EO CAMERA

Type: 30x optical zoom, $f=4.3 \text{ mm}$ (wide) to 129.0 mm (tele.) F1.6 to F4.7
 Sensor: CMOS
 Fog Penetrating: Yes
 Video Output (HD) : FHD, 1080P@30
 FOV: Wide angel 63.7° to long-focus 2.3°

IR CAMERA

Pixel : 640×512
 Working Wave Range : $3 \sim 5 \mu m$
 Type : Stirling cooler
 Phase element size: $15 \mu m \times 15 \mu m$
 Cooling Time : Less than 7min.
 Lens Type: Fixed focus
 Focus: $90mm@F4$
 FOV: $6.1^{\circ} \times 4.9^{\circ}$
 Face Size $12.3mm$

TRACKING MODULE

Tracking Target: $48 \times 48 \sim 384 \times 384 \text{ pixel} \times \text{pixel}$
 Min.Tracking comparison ratio : 0.05
 Tracking Calculation Time: $< 20ms/\text{frame}$
 Identify Target: $48 \times 48 \sim 384 \times 384 \text{ pixel} \times \text{pixel}$
 Identify Calculation Time: $30ms/\text{frame}$
 Identify Accuracy: 95%, car as example
 Encode Video Output: Support encoded video output, Ethernet, H265 and H264 encoded, default H265 encoded
 Picture in Picture: YES
 OSD : can display characters, line of sight, pod angle information, detection frame, tracking window, North pointing, equipment status, target coordinates and other information
 Storage: 64G which can support 18hrs recording
 Voltage: 12-26V
 Power: Idle $< 20W$, tracking+AI on $< 35W$
 Size/Weight: $115 \times 102 \times 34.8mm / 260g$

INTERFACE

Pod Control: CAN, S-BUS, RS232, TTL
 Pod Video Output: WAN, synchronic 422
 Voltage: 22-30v

Environment Temperature

Working Temperature: $-20^{\circ}C \sim +60^{\circ}C$;
 Storage Temperature: $-20^{\circ}C \sim +70^{\circ}C$;

Detect & Identify Distance

EO Detect & Identify Distance: $13m \times 130m \geq 22km$
 $5m \times 15m \geq 15km$
 $3m \times 6m \geq 9km$

IR Detect & Identify Distance:
 $13m \times 130m$: detect $\geq 20km$, identify $\geq 20km$
 $5m \times 15m$: detect $\geq 12.9km$, identify $\geq 6.48km$
 $3m \times 6m$: detect $\geq 6.4km$, identify $\geq 3.17km$

QZZQ reserves the right to change specifications without prior notice.