

# IPC521-F120-G

## 2.0MP 20x Vehicle Wi-Fi PTZ Camera



### Features

#### Excellent Image Quality

- 2.0 Megapixel 1/2.8" Progressive Scan CMOS Sensor
- High definition and smooth picture, 1080p@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.003lux with color picture
- IR automatically adjust
- 3D noise reduction / HLC / BLC

#### Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~ 70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

#### Large Scale

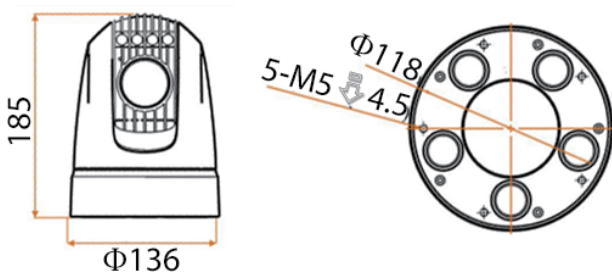
- 20x optical zoom
- IR distance up to 80m

#### Abundant functions and features

- Built-in Micro SD card, supports Automatic Network Replenishment (ANR)
- Built-in super magnet
- 3G / 4G / Wi-Fi supported
- Up to 6 hours continuous working with battery in 4G
- Vehicle based PT structure

### Dimensions

Units:mm



### Specifications

	IPC521-F120-G
<b>Camera</b>	
Image Sensor	1/2.8" Progressive Scan CMOS
Pixels	2.0 Megapixel
Min. Illumination	Color: 0.003lux @ (F1.5, AGC ON) B/W: 0.0003lux @ (F1.5, AGC ON); 0lux with IR
Shutter Speed	1 ~ 1/30,000S
Day / Night	Auto (ICR) / Color / B/W
Wide Dynamic Range	Digital WDR
S/N Ratio	>50dB
White Balance	Auto / Manual
Gain Control	Auto / Manual
Backlight Compensation	Off / WDR / BLC / HLC
<b>Lens</b>	
Focal Length	4.7 ~ 94mm, 20x optical
Zoom Speed	Approx 3s (Optical)
Angle of View	54.1° ~ 2.9° (Wide~Tele)
Min. Object Distance	300 ~ 1500mm (Wide~Tele)
Max. Aperture Ratio	F1.5 (Wide) / F3.0 (Tele)
Focus Control	Auto / Manual / Semi-Automatic
<b>Infrared</b>	
IR LED	4pcs IR LED Array
IR Distance	40 ~ 80m
IR Intensity	Automatically adjust according to zoom ratio
<b>Pan and Tilt</b>	
Pan / Tilt Range	360° Endless / -15° ~ 90° (Auto Flip)
Pan / Tilt Speed	Pan manual speed: 0.1° ~ 30°/s; Pan preset speed: 40°/s Tilt manual speed: 0.1° ~ 30°/s; Tilt preset speed: 40°/s
Proportional Zoom	Pan / Tilt speed can be adjusted automatically according to zoom multiples
Preset	256
Patrol	8 Patrols scheme, up to 32 presets per patrol
Pattern Scan	4 Scan paths, each path can record 10 minutes of operation path
Power-off Memory	Power-off memory / Power-on recovery
Auto Guard	Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan
PT Limit	Manual / Scan / Pan
3D Positioning	PTZ control with mouse click and drag
<b>Video</b>	
Compression	H.265 / H.264 / MJPEG
Image Resolution	Main stream: 1080p Secondary stream: D1
Frame Rate	Main stream: 1080p@30fps Secondary stream: D1@30fps
Bitrate	64kbps ~ 16Mbps
Bitrate Control	VBR / CBR
Multi Stream	Supported
Caption	Date and time / Alarm / Direction / Customized
Privacy Masking	Up to 4 zones
Motion Detection	Up to 4 zones
Video Freeze	Supported
ROI	Supported
Digital Noise Reduction	3D noise reduction
Digital Defog	Supported
Image Flip	Flip / Mirror
<b>Network</b>	
Network Protocols	TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional)
User Interface	IPC Control (IE, Firefox, Chrome)
Max. User Access	Max. 10 Users (includes 2 internal)
Wireless	3G / 4G / Wi-Fi
3G / 4G Frequency Band	FDD-LTE: B1 / B2 / B3 / B5 / B7 / B8 / B20 TDD-LTE: B38 / B39 / B40 / B41 HSPA / UMTS: 850 / 900 / 1800 / 1900 / 2100MHz GSM / GPRS / EDGE: 850 / 900 / 1800 / 1900MHz TD-SCDMA: B34 / B39 EVDO/CDMA: BCD / BC1
Wi-Fi	802.11b/g/n 2.4G, Wi-Fi AP
Location Technology	GPS, GLONASS (optional)
Application Programming	Onvif (Profile S, Profile G), API, CGI
<b>Alarm</b>	
Alarm Triggers	Network disconnect
Alarm Events	Alarm report / Text overlay / Email notice
<b>Interfaces</b>	
Aviation Port	4-Pin 10/100M interface, 2-Pin Charge interface
Wi-Fi	Built-in Wi-Fi module
GPS	Built-in GPS module
3G / 4G	Built-in 3G / 4G module
Memory Slot	Built-in 128G Micro SD card
<b>Environmental</b>	
Operating Temperature	Power supplied by built-in battery: -20°C ~ 60°C / -4°F ~ 140°F Power supplied by DC: -40°C ~ 70°C / -40°F ~ 158°F
Operating Humidity	10% ~ 95%
Protection Level	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
<b>Electrical</b>	
Power	Built-in 10000mAh rechargeable lithium battery Up to 6 hours continuous working with battery in 4G 12V DC ± 10%
Power Consumption	Max. 63W (IR on)
<b>Mechanical</b>	
Magnet	Built-in super magnet
Weight	2.5kg / 5.51lb (Gross Weight)
Dimensions	Φ136 × 185mm / Φ5.35" × 7.29"
<b>Accessories</b>	
Optional	Three-proof Suitcase