

Locix

Locix Outdoor HD Camera

Model No.: L-WC-01-40-IP65, L-WC-01-110-IP65

User's Manual

1. PRODUCT HISTORY

1.1. PURPOSE

This document contains the product specification of Dragonfly camera.

Date	Release	Author	Description
2017/12/04	0.1	Tommy Lin	• Primary Release
2017/12/11	0.2	Matt Davidson	• Edits
2017/12/21	0.3	Tommy Lin	• 4 pcs battery change to 2 pcs design

2. INTRODUCTION

THE LOCIX BATTERY POWERED SENSOR/CAMERA PROVIDES FULL HD 720P WIDE VIEW ANGLE AND OVER 3 YEARS BATTERY LIFE (@ 1 IMAGE PER HOUR) AND SUPPORT 10 METERS MOTION DETECTION AND CLEAR NIGHT VISION. THIS CAMERA ALSO PROVIDES EASY INSTALLATION INCLUDING WALL MOUNT AND HUB CONNECTED AUTOMATICALLY.

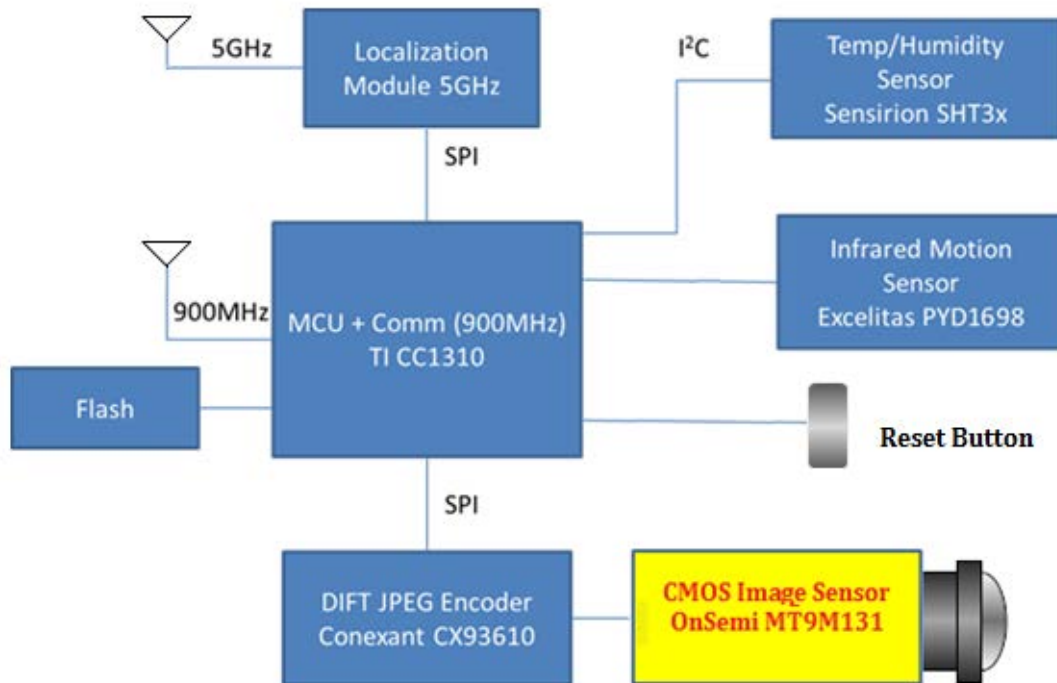
The main feature as following:

1. Sub-1G : The camera has good wireless performance and reliable connection with hub.
2. Night Vision: The camera supports 10 meters visible distance in the 0 lux environment.
3. Battery Life: The camera powered by 2pcs AA non-rechargeable battery
4. Installation: The camera supports automatic connection with hub and wall mount.
5. Water/Dust Proof: The camera supports IP65.

3. SPECIFICATION

3.1. HARDWARE BLOCK DIAGRAM

(Localization module optional)



3.2. SYSTEM AND HARDWARE SPECIFICATION

System			
H.1	Processor	• Ti CC1310	
H.2	ROM	• 128 M bit	
H.3	Power supply	• AA 2pcs	
H.4	Power Consumption	• Max. 3W	
H.5	Environment	•Operation: Temp: -20℃ ~ 60℃ Humidity: 0% ~ 85% non-condensing •Storage: Temp: -25℃ ~ 70℃ Humidity: 5% ~ 95% non-condensing	
Optical			
H.6	Image Sensor	• Onsemi MT9M131	
H.7	Sensor Size	• 1/3” 1.3M pixel CMOS Sensor	
H.8	Image Max Resolution	• 1280 x 1024	
H.9	F/No	• F2.3	
H.10	Focus Length	• 2.3mm	
H.11	Sensitivity	• 0.5 lux@IR_LED Off (minimum) • 0 lux@IR_LED On	
H.12	Focus Depth	• 1.5m~Infinity	
H.13	View Angle (Image Raw Data)	Horizontal	113°
		Vertical	87°
		Diagonal	140°
SOC			
H.14	Processor	• Ti CC1310	
H.15	CPU	• ARM Cortex M3	
H.16	Clock Speed	• Up to 48Mhz	
Image Processing			
H.17	Codec Processor	• Conexant CX93610	
H.18	Compression	• JPEG/MJPEG	
H.19	Resolution Output	• 1280 x 1024 Cropping to 1080 x 720	
Wireless Interface			
H.20	Chipset Model	• Ti CC1310	
H.21	Host Interface	• Internal Built-in	
H.22	RF	• Sub 1GHz	
H.23	Output Power	• Up to +13dbm	
H.24	Distance	• 30 meters (Between Camera to Hub)	

Antenna specification		
H.25	Antenna	• Sub-1GHz - Type : Dipole - Efficiency : 40% max - Operating Frequency : 902~928 MHz • Localization Module - Type : PIFA - Efficiency : 40% max - Operating Frequency : 5150~5850 MHz
Sensor		
H.26	Day/Night	• Built-in ICR
H.27	Light Sensor	• CG5151TA
H.28	PIR	• PYD 1698 • Up to 10 Meters
H.29	Temperature / Humidity	• SHT31-DIS
LED and Button		
H.30	Indicator	• No
H.31	IR	• 6pcs • 850nm • Up to 10 Meters
H.32	Reset Button	• Reboot Camera
Certification		
H.33	Regulatory	• FCC part 15 Class A , CE Class A , CB, TELEC, UL/ cUL
H.34	Waterproof Level	• IP65

4. ID AND MECHANICAL DESIGN

4.1. OUTLOOK



5. USER SCENARIO

Dragonfly camera can install in the data center or air conditioning room or truck berth to monitor.



Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a **Class B** digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

IMPORTANT NOTE:

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance.