

## X81



3MP Image Quality



Wireless Connections



100% Wireless Design



PIR Detection



Two-way Intercom



Waterproof and Dustproof



Activity Zone



Full Color Night Vision



Rechargeable Battery



Phone Monitoring



Al Functions



3-day Free Cloud Storage\*



## **Features**

- Easy to install and use , wireless
- Clear and smooth video browsing; intelligent transmission giving full play to capabilities of the network
- Online firmware upgrade, and synchronous updating of the functions and experience
- Support two ways talk and echo cancellation , noise suppression
- Remote real-time monitoring , Support Andorid and IOS smart device
- 3-megapixel 2304x1296 resolution, clear picture quality
- Double light source for night vision (night vision distance of 7 meters), provide infrared light/white LED supplement light, to achieve night vision color image effect.
- With built-in rechargable battery , support long battery life, which normal working up to 8 months and standby for 15 months
- ◆ 2.4G Wi-Fi supported (IEEE802.11b/g/n)
- Cloud storage, Micro SD card (up to 128GB) and mobile phone video recording supported
- QR code intelligent connection and network allocation supported
- Support Human Detection 、Car recognition 、Intelligent fence 、Pet Recognition 、Package Recognition and Intelligent Push
- ◆ IP65 Easy installation: support 1 / 4 universal screw bracket and magnetic suction bracket





## **Specifications**

Audio  Audio Compressing AAC  Video Shtz, 60Hz  Frame Rate ISfps  Maximum Resolution 2304*1296  Ught Source for Night Vision Advite LED Indiadation distance Wireless Network AI  Vireless Network  Protocols Supported TCP/IP, UDP/IP, DHCP, RTMP, N  IP Address Supported Dynamic IP address supported AI  Intelligent Features Support Human Detection. Care Recognition. Package Recognition Alarm Alarm Alarm Notification Alarm push by mobile APP, white Wake up  Wake up Method PIR body induction wake-up, and recording Method Recording Video Storage Cloud storage, local Micro SD card. LED Indicator  REB tricolor lamp indicating the st Capacity 9000mAH Removability Unremovable Battery Standby 15 months Charge Woltage DV SV+-5%/I-SA  Charge time 17hours Protect Protect Protect Protect Night Alarm Night Alarm Standby 1.68mW(AV 0.42mA) Day 1W(38V 264mA) Day 1W(38V 264mA) Alarm Standby 1.68mW(AV 0.42mA) Day Alarm Alarm Night Alarm Alarm Night Alarm Alarm Night Alarm Standby Intermovable Alarm Standby Ala			
Lens	Main Processor	SOC	ARM
Name   Higherizontally: Vivertical()55°; DDI   Minimum Illumination   O01Lux	Image Sensor	Cmos Sensor	1/2.9* Color CMOS Sensor
Visual angle   Hithorizontally* Vivertical(55*; DDL)   Minimum Illumination   ODTLux		Lens	M12,f: 3.3mm,F2.0, 3MP
Audio Audio Compressing Audio		Visual angle	H(Horizontal)°; V(Vertical)55°; D(Diagonal)110°
Audio Compressing AAC  Video Compressing Hi.264/Hi.265  Lighting Frequency SOHz, 60Hz Frame Rate 15fps  Maximum Resolution 2304*1296  Uight Source for Night Vision Audio Mike LED, irradiation distance Wireless Network 2.4G Wi-Fi(EEE802.11b/g/n), with E Protocols Supported TCP/IP, LIDP/IP, DHCP, RTMP, h IP Address Supported Opniumic IP address supported Al Intelligent Features Recognition, Package Recognition Alarm Alarm Alarm Notification Alarm push by mobile APP, white Wake up Wake up Method PIR body induction wake-up, and ra Recording Recording Method Alarm triggered recording, and man Video Storage Cloud storage, local Micro SD card, Indicator LED Indicator RGB tri-color lamp indicating the st Capacity Battery Battery Standby 15 months Charge Voltage DV 5V+-5%/1.5A Charge time Protect Protect Protect Protect Protect Protect Night 2.23W(3.8V 588mA) SW Ultra Slim Solar Panel Standby Indicator Video SD Card Indicator Net Frame Power Micro USB Interface SD Card Indicator Net Frame Power Micro USB Interface SD Card Indicator Net Frame Power Micro USB Interface SD Card Indicator Net Frame Power Micro USB Interface SD Card Indicator Net Frame Power Micro USB Interface SD Card Indicator Net Storage Environment		Minimum Illumination	0.01Lux
Audio Compressing   AAC	Audio	Input/Output	built-in Microphone and speaker
Video Frame Rate  Frame Rate  Frame Rate  Isfps  Maximum Resolution  2304/1296  Uight Source for Night Vision  Light Source for Night Vision  Wireless Network  Active Frotocols Supported  Frotocols Supported  TCP/IP, UDPAP, DHCP, RTMP, Night Paddress Supported  All Intelligent Features  Recognition, Package Recognition  Alarm Alarm Alarm Notification  Alarm push by mobile APP, white  Recording  Recording Method  Removability Unremovable  Battery Unremovable  Battery Standby Unremovable  Battery Info Method Provides Provided Prov	Audio	Audio Compressing	AAC
Video   Frame Rate   15fps	Video	Video Compressing	H.264/H.265
Maximum Resolution 2394*1296  Uight Source for Night Vision An Double light source with medium pand white LED, irradiation distance with redium pand white LED, irradiation distance with redium pand white LED, irradiation distance with redium pand white LED, irradiation distance with the LED, irradiation in the LED, Indicator and LED Indicator Alarm Detection, Car reflection, Car refl		Lighting Frequency	50Hz, 60Hz
Uight Source for Night Vision   Double light source with medium pand white EED, irridiation distance		Frame Rate	15fps
Network  Wireless Network  Wireless Network  Protocols Supported  Protoc		Maximum Resolution	2304*1296
Network		Light Source for Night Vision	Double light source with medium power infrared LED (850nM wavelength) and white LED, irradiation distance:7 meters
IP Address Supported  Dynamic IP address supported  Dynamic IP address supported  Dynamic IP address supported  Dynamic IP address supported  Support Human Detection, Car re Recognition. Package Recognition  Alarm  Alarm Notification  Alarm push by mobile APP, white I  Wake up  Wake up Method  PIR body induction wake-up, and re  Recording  Recording Method  Alarm triggered recording, and man  Video Storage  Cloud storage, local Micro SD card,  Indicator  LED Indicator  RGB tri-color lamp indicating the st  Capacity  9000mAH  Removability  Battery Life  8 months (Record 20 10S videos p  Standby  15 months  Charge Voltage  DV 5V+-5%/1.5A  Charge time  17hours  Protect  Protect  Protect  Protect  Protect  Diffes; ower-current/over-discharge, protection at high & low temperats  Standby  1.68mW(4V 042mA)  Day  1W(38V 264mA)  Day  1W(38V 264mA)  SW Ultra Slim Solar Panel  830mA ±5%, Cable Length: 2.9 m; Alan Lasarya.  Power  Micro USB  Interface  SD Card  1 Micro SD card (up to 128G8 supported)  Key  one reset key and one power key  Installation  method  1/4 universal screw holes  Dustproof and waterproof  P65  Environment  Operating Environment  -10° - 45°C /10% - 80% (no conded)  dimension(LxWxH)  The bare weight  S00g  Dimension  Finished weight  600g	Network	Wireless Network	2.4G Wi-Fi(IEEE802.11b/g/n), with External antenna
Alarm Alarm Notification Alarm push by mobile APP, white I Wake up Wake up Method PIR body induction wake-up, and re Recording Method Alarm triggered recording, and man Video Storage Cloud storage, local Micro SD card.  Indicator LED Indicator RGB tri-color lamp indicating the st Capacity 9000mAH Removability Unremovable Battery Standby 15 months Charge Voltage DV 5V+-5%/1.5A Charge Voltage DV 5V+-5%/1.5A Charge time 17hours Protect Protect Protect Protect Indicator shiph & low temperate Standby 1,68mW(4V 0.42mA) Day 1W(3.8V 264mA)  Day 1W(3.8V 264mA) SW Ultra Slim Solar Panel Solar Nama working vont Solar Ascensor Power Micro USB Interface SD Card 1 Micro SD card (up to 1286B supp. Key one reset key and one power key Installation method 1/4 universal screw holes Dustproof and waterproof P65 Environment Operating Environment -10" ~ 45"C / 10% ~ 80% (no conded times sign) (Law Wak) The bare weight 500g Finished weight 600g		Protocols Supported	TCP/IP、UDP/IP、DHCP、RTMP、MUTP
Alarm Alarm Alarm Notification Alarm push by mobile APP, white I  Wake up Wake up Wake up Method PiR body induction wake-up, and re  Recording Method Alarm triggered recording, and man Video Storage Cloud storage, local Micro SD card, Indicator LED Indicator RGB tri-color lamp indicating the st Capacity 9000mAH Removability Unremovable Battery Life 8 months (Record 20 105 videos p Standby 15 months (Record 20 105 videos p Charge Voltage DV 5V+5%/1.5A Charge time 17hours Protect Post of PipS; over-current/over-discharge, protection at high & low temperate Standby 1.68mW(4V 0.42mA)  Power Night 223W(3.8V 58mA) Night 23W(3.8V 58mA) Night 23W(3.8V 58mA) Night SW Ultra Slim Solar Panel SW Ultra Slim Solar Panel Micro USB Interface SD Card 1 Micro SD card (up to 128G8 supp New Micro USB 1 Micro USB No Card 1 Micro SD card (up to 128G8 supp New Micro USB Dustproof and waterproof PiP65  Environment Operating Environment -10" - 45°C /10% - 80% (no conded dimension(LxWxH) 81.3*119.2*80.6(mm)  The bare weight 500g		IP Address Supported	Dynamic IP address supported
Wake up   Wake up Method   PIR body induction wake-up, and ro	Al	Intelligent Features	Support Human Detection 、Car recognition 、Intelligent fence 、Pet Recognition 、Package Recognition and Intelligent Push
Recording Method Video Storage Cloud storage, local Micro SD card, Indicator LED Indicator RGB tri-color lamp indicating the st  Capacity 9000mAH Removability Unremovable Battery Life Bat	Alarm	Alarm Notification	Alarm push by mobile APP, white LED flashing and alarm sound warning
Recording   Video Storage   Cloud storage, local Micro SD card,	Wake up	Wake up Method	PIR body induction wake-up, and remote wake-up
Indicator   LED Indicator   RGB tri-color lamp indicating the st	- "	Recording Method	Alarm triggered recording, and manual recording
Capacity   9000mAH     Removability   Unremovable     Battery Life   8 months (Record 20 10S videos p     Standby   15 months     Charge Voltage   DV 5V+-5%/1.5A     Charge time   17hours     Protect   Pf65; over-current/over-discharge, protection at high & low temperate     Standby   1.68mW(4V 0.42mA)     Day   1W(3.8V 264mA)     Day   1W(3.8V 264mA)     SW Ultra Slim Solar Panel   830m A ±5%; Cable Length: >2.9m; (122m 1562-22)     Power   Micro-Use, Standard working voit (123m 1562-22)     Power   Micro-Use (123m 1562-22)     Fower   Micro-Use (123m 1562-22)     Power   Micro-Use (123m 1562-22)     Fower   Micro-Use (123m 1562-22)     Power   Micro-Use (123m 1562-	Recording	Video Storage	Cloud storage, local Micro SD card, and mobile phone memory
Removability	Indicator	LED Indicator	RGB tri-color lamp indicating the status of power/network signal/functionality
Battery Life 8 months (Record 20 10S videos p Standby 15 months  Charge Voltage DV 5V+-5%/1.5A  Charge time 17hours  Protect   IP65; over-current/over-discharge, protection at high & low temperate protection at high & low temp		Capacity	9000mAH
Standby		Removability	Unremovable
Charge Voltage		Battery Life	8 months (Record 20 10S videos per day)
Charge time	Battery	Standby	15 months
Protect   Protection at high & low temperate   Standby   1.68mW(4V 0.42mA)			
Protection at high & low temperate   Standby		Charge Voltage	DV 5V+-5%/1.5A
Day			
Night   2,23W(3,8V 588mA)		Charge time	
Night   2.23W(3.8V 588mA)		Charge time Protect	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures
SW Ultra Slim Solar Panel    330mA ±5%; Cable Length: >2.9m;   (13/1.158C)±2C     Power   Micro USB     Interface   SD Card   1 Micro SD card (up to 128GB suppose     Key   One reset key and one power key     Installation   method   1/4 universal screw holes     Dustproof and waterproof   IP65     Environment   Operating Environment   -10° ~ 45°C /10% ~ 80% (no concount of the strength of the st	Bouer	Charge time Protect Standby	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures  1.68mW(4V 0.42mA)
Power   Micro USB	Power	Charge time Protect Standby Day	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures  1.68mW(4V 0.42mA)  1W(3.8V 264mA)  2.23W(3.8V 588mA)
Key   one reset key and one power key	Power	Charge time Protect Standby Day Night	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures  1.68mW(4V 0.42mA)  IW(3.8V 264mA)  2.23W(3.8V 588mA)  micro-usb; standard working voltage: ev ±5%; standard working current: 830mA ±5%; Cable Length: >2.9m; Material: PVC; Cable Diameter:
Dustproof and waterproof	Power	Charge time Protect Standby Day Night SW Ultra Slim Solar Panel	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures  1.68mW(4V 0.42mA)  1W(3.8V 264mA)  2.23W(3.8V 588mA)  MICCO-USB, Standard WORKING VORIAGE: BV ±3%, Standard WORKING CUrrent: 830m ±15%; Cable Length: >2.9m; Material: PVC; Cable Diameter: 1.12 (h.1580-1.2)c
Dustproof and waterproof IP65    Poperating Environment   -10° ~ 45°C /10% ~ 80% (no concession of the		Charge time Protect Standby Day Night SW Ultra Slim Solar Panel Power	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures  1.68mW(4V 0.42mA)  1W(3.8V 264mA)  2.23W(3.8V 588mA)  MICCO-USB, Standard WORKING VORIAGE: BV ±3%, Standard WORKING CUrrent: 830m ±15%; Cable Length: >2.9m; Material: PVC; Cable Diameter: 1.12 (h.1580-1.2)c
Operating Environment		Charge time Protect Standby Day Night SW Ultra Slim Solar Panel Power SD Card	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures  1.68mW(4V 0.42mA)  1W(3.8V 264mA)  2.23W(3.8V 588mA)  MICRO-USB; Standard Working Voltage: 8V ±5%; Standard Working Current: 830mA ±5%; Cable Length: >2.9m; Material: PVC; Cable Diameter: 1/13/m.1586/25*  Micro USB  1 Micro SD card (up to 128GB supported)
Storage Environment	Interface	Charge time Protect Standby Day Night SW Ultra Slim Solar Panel Power SD Card Key	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures  1.68mW(4V 0.42mA)  1W(3.8V 264mA)  2.23W(3.8V 588mA)  MICTO-USB; STANDARD VOTKING VOTRING: 0V ±3%; STANDARD WOTKING CURRENT STANDARD VOTRING: 0V ±3%; STANDARD V
dimension(LxWxH) 81.3*119.2*80.6(mm)  The bare weight 500g  Dimension finished weight 600g	Interface	Charge time Protect Standby Day Night SW Ultra Slim Solar Panel Power SD Card Key method	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures  1.68mW(4V 0.42mA)  1W(3.8V 264mA)  2.23W(3.8V 588mA)  MICCO-USB, Standard WORKING VOITAGE: 8V ±5%; Standard WORKING CURRENT STANDARD CURRENT STANDARD WORKING CURRENT STANDARD WORK
The bare weight 500g  Dimension finished weight 600g	Interface Installation	Charge time Protect Standby Day Night SW Ultra Slim Solar Panel Power SD Card Key method Dustproof and waterproof	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures  1.68mW(4V 0.42mA)  1W(3.8V 264mA)  2.23W(3.8V 588mA)  MICCO-USB, Standard WORKING VOITAGE: 8V ±5%; Standard WORKING CURRENT STANDARD CURRENT STANDARD WORKING CURRENT STANDARD WORK
Dimension finished weight 600g	Interface Installation	Charge time Protect Standby Day Night SW Ultra Slim Solar Panel Power SD Card Key method Dustproof and waterproof Operating Environment	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures  1.68mW(4V 0.42mA)  1W(3.8V 264mA)  2.23W(3.8V 58mA)  MICTO-USB; Standard WOYKING VOILAGE: BY 2.5%; Standard WOYKING CURRENT STANDARD VOILAGE: BY C. Cable Diameter: 11.210.1158/11.200.1158/11.200.1158/11.200.1158/11.200.1158/11.200.1158/11.200.1158/11.200.1158/11.200.1158/11.200.1158/11.200.1158/11.200.1158/1
	Interface Installation	Charge time Protect Standby Day Night SW Ultra Slim Solar Panel Power SD Card Key method Dustproof and waterproof Operating Environment Storage Environment	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures  1.68mW(4V 0.42mA)  1W(3.8V 264mA)  2.23W(3.8V 588mA)  MICCO-USB, Standard WORKING VOITAGE: 8V ±5%; Standard WORKING CURRENT LAZION 1.58C/1.27  Micro USB  1 Micro SD card (up to 128GB supported)  one reset key and one power key  1/4 universal screw holes  IP65  -10* ~ 45°C /10% ~ 80% (no condensation)  -20°C ~ 60* /0% ~ 90% (no condensation)
Material ABS+PC	Interface Installation	Charge time Protect Standby Day Night SW Ultra Slim Solar Panel Power SD Card Key method Dustproof and waterproof Operating Environment Storage Environment dimension(LxWxH)	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures  1.68mW(4V 0.42mA)  1W(3.8V 264mA)  2.23W(3.8V 588mA)  MICCO-USB, Standard Working Vorlage: 8V \$5%; Standard Working Current: 830m ± 5%; Cable Length: >2.9m; Material: PVC; Cable Diameter: 173.2/1.158CH-127  Micro USB  1 Micro SD card (up to 128GB supported) one reset key and one power key  1/4 universal screw holes  IP65  -10° ~ 45°C /10% ~ 80% (no condensation)  -20°C ~ 60° /0% ~ 90% (no condensation)  81.3*119.2*80.6(mm)
	Interface Installation Environment	Charge time Protect Standby  Day Night SW Ultra Slim Solar Panel Power SD Card Key method Dustproof and waterproof Operating Environment Storage Environment dimension(LxWxH) The bare weight	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures  1.68mW(4V 0.42mA)  1W(3.8V 264mA)  2.23W(3.8V 588mA)  MICTO-USB; STANDARD WORKING VORRING PORTION STANDARD WORKING CURRENT STANDA
Color White	Interface Installation Environment	Charge time Protect Standby Day Night SW Ultra Slim Solar Panel Power SD Card Key method Dustproof and waterproof Operating Environment Storage Environment dimension(LxWxH) The bare weight finished weight	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures  1.68mW(4V 0.42mA)  1W(3.8V 264mA)  2.23W(3.8V 588mA)  MICTO-USB, STAINDARD VORTING VORTING CURRENT: (13.00.158C)-127  Micro USB  1 Micro SD card (up to 128GB supported)  one reset key and one power key  1/4 universal screw holes  IP65  -10* ~ 45*C /10% ~ 80% (no condensation)  -20*C ~ 60* /0% ~ 90% (no condensation)  81.3*119.2*80.6(mm)  500g  600g
Certification Certification CE,FCC,RoHS,WEEE,MSDS,UN38.3	Interface Installation Environment	Charge time Protect Standby Day Night SW Ultra Slim Solar Panel Power SD Card Key method Dustproof and waterproof Operating Environment Storage Environment dimension(LxWxH) The bare weight finished weight Material	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures  1.68mW(4V 0.42mA)  1W(3.8V 264mA)  2.23W(3.8V 588mA)  MICCO-USB, Standard Working Vorlage: 8V 153%; Standard Working Current: 830m ± 15%; Cable Length: >2.9m; Material: PVC; Cable Diameter: 142/11158CH292  Micro USB  1 Micro SD card (up to 128GB supported) one reset key and one power key  1/4 universal screw holes  IP65  -10* ~ 45°C /10% ~ 80% (no condensation)  -20°C ~ 60* /0% ~ 90% (no condensation)  81.3*119.2*80.6(mm)  500g  600g  ABS+PC
ivialeriai [ADS+PC	Interface Installation	Charge time Protect Standby Day Night SW Ultra Slim Solar Panel Power SD Card Key method Dustproof and waterproof Operating Environment Storage Environment dimension(LxWxH)	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures  1.68mW(4V 0.42mA)  1W(3.8V 264mA)  2.23W(3.8V 588mA)  MICCO-USB, Standard Working Vorlage: 8V \$5%; Standard Working Current: 830m ± 5%; Cable Length: >2.9m; Material: PVC; Cable Diameter: 173.2/1.158CH-127  Micro USB  1 Micro SD card (up to 128GB supported) one reset key and one power key  1/4 universal screw holes  IP65  -10° ~ 45°C /10% ~ 80% (no condensation)  -20°C ~ 60° /0% ~ 90% (no condensation)  81.3*119.2*80.6(mm)
	Interface Installation Environment Dimension	Charge time Protect Standby  Day Night SW Ultra Slim Solar Panel Power SD Card Key method Dustproof and waterproof Operating Environment Storage Environment dimension(LxWxH) The bare weight finished weight Material Color	17hours  IP65; over-current/over-discharge/over-charge/short circuit/charging protection at high & low temperatures  1.68mW(4V 0.42mA)  1W(3.8V 264mA)  2.23W(3.8V 588mA)  MICTO-USB; STANDARD WORKING VORTING POTE STANDARD WORKING CURRENT STANDARD WORKING VORTING POTE STANDARD WORKING CURRENT STAN







