

3MP HD Outdoor Pan & Tilt Wi-Fi Camera

Uho-P2A-M3F4D



Features

- High quality image with 3MP, 1/3" CMOS sensor
- 2304*1296@20fps in the main stream
- Ultra 265, H.265, H.264
- Support digital WDR (Wide Dynamic Range)
- Built-in Mic & Speaker, support two-way audio, offer better interaction
- Support sound and light warning, makes warning and alarming more noticeable
- Smart IR, up to 30 m (98 ft) IR and 10 m (32 ft) warm light distance, suitable for more scenes
- Self-contained bracket, support two kinds of mounting
- Supports 512 GB Micro SD card
- Wi-Fi connection and easy installation
- IP66 ingress protection
- The front face is made of grapheme, which has better heat dissipation and more environmental protection

Specifications

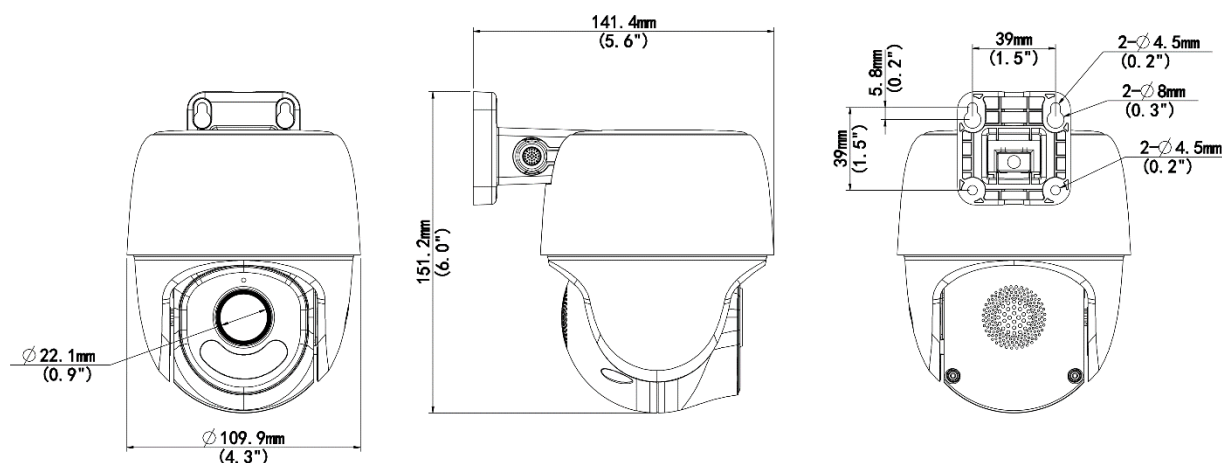
Model	Uho-P2A-M3F4D
Camera	
Max Resolution	3 MP
Sensor	1/3.0" CMOS
Min. Illumination	Colour: 0.005Lux (F1.6, AGC ON) 0 Lux with IR on
Day/Night	IR-cut filter with auto switch (ICR)
Shutter	Auto/Manual, 1 ~ 1/100000s
S/N	>52 dB
WDR	DWDR
Lens	
Digital Zoom	4X
Focal Length	4.0 mm
Iris Type	Fixed
Iris	F1.6
Field of View (H)	90.5 °
Field of View (V)	44.4 °
Field of View (D)	111.3 °
Lens Type	Fixed
DORI	
DORI Distance (Lens)	4.0mm
DORI Distance (Detect)	73.5 (241.0ft)
DORI Distance (Observe)	29.4 (96.4ft)
DORI Distance (Recognize)	14.7 (48.2ft)
DORI Distance (Identify)	7.3 (24.1ft)
Illuminator	
Illumination Distance (IR)	30 m (98.4 ft)
Illumination Distance (Warm Light)	10 m (32.8 ft)
Wavelength	850 nm

IR On/Off Control	Auto/Manual
Video	
Video Compression	Ultra 265, H.265, H.264
Frame Rate	Main Stream: 3MP (2304*1296), Max 20fps; Sub Stream: 640*360, Max 20fps;
Video Bit Rate	128 Kbps to 2048 Kbps
U-code	Support
OSD	Up to 2 OSDs
Privacy Mask	Support (only NVR)
ROI	Up to 8 areas
Video Stream	Dual Streams
Image	
White Balance	Auto, Outdoor, Fine Tune, Sodium Lamp, Locked, Auto2
Digital Noise Reduction	2D/3D DNR
Smart IR	Support
Flip	Normal, Flip Vertical, Flip Horizontal, 180 °
Dewarping	N/A
HLC	N/A
BLC	N/A
Defog	Digital Defog
Events	
Basic Detection	Human Body Detection, Motion Detection, Audio Detection
General Function	IP Address Filtering, Access Policy, ARP Protection, RTSP Authentication, User Authentication, HTTP Authentication
Intelligent	
Auto Tracking	Support
Audio	
Audio Compression	G.711U, G.711A
Audio Bitrate	64 Kbps
Two-way Audio	Support
Suppression	Support

Sampling Rate	8 kHz
Storage	
Edge Storage	Micro SD, up to 512 GB
Network Storage	ANR
Network	
Wi-Fi	2.4G Wi-Fi (IEEE802.11b/g/n), built-in antenna
Protocols	IPv4, TCP, UDP, DHCP, RTSP, DNS, DDNS, NTP, HTTP
Compatible Integration	API
Client	Uniarch Client, Uniarch app
Web Browser	Plug-in required live view: IE 10+, Chrome 45+, Firefox 52+, Edge 79+
Wi-Fi	
Wireless Standards	IEEE802.11b/g/n
Frequency Range	2.4 GHz to 2.4835 GHz
Channel Bandwidth	20 MHz Support
Modulation Mode	802.11b: CCK, QPSK, BPSK 802.11g/n: OFDM/HT
Wi-Fi Security	64/128-bit WEP, WPA-PSK/WPA2-PSK
Transmit Power	802.11b: 17±1.5 dBm@11 Mbps 802.11g: 14±1.5 dBm@54 Mbps 802.11n: 12.5±1.5 dBm@150 Mbps
Receive Sensitivity	802.11b: -90 dBm@11 Mbps (Typical) 802.11g: -75 dBm@54 Mbps (Typical) 802.11n: -74 dBm@150 Mbps (Typical)
Transmission Rate	802.11b: 11 Mbps 802.11g: 54 Mbps 802.11n: up to 150 Mbps
PTZ	
Pan Range	0° ~ 345°
Pan Speed	1 %s ~ 40 %s Preset speed: 40 %s
Tilt Range	0° ~ 90°
Tilt Speed	1 %s ~ 30 %s Preset speed: 30 %s
Number of Presets	20
Interface	
Audio I/O	N/A

Alarm I/O	N/A
Built-in Mic	Support
Built-in Speaker	Support
WIFI	Support
Network	1 × RJ45 10 M/100 M Base-TX Ethernet
Certification	
EMC	CE-EMC (EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 50130) FCC (FCC 47 CFR part15 B)
RF	FCC ID (FCC CFR 47 part15 C) CE RED (EN 301 489-1, EN 301 489-17, EN 300 328, EN 62311)
Safety	CE LVD (EN 62368-1)
Environment	CE-RoHS (2011/65/EU;(EU)2015/863); WEEE (2012/19/EU);
Protection	IP66 (IEC 60529)
General	
Power	DC 12V ±25%
Power Interface	Ø5.5 mm coaxial power plug
Dimensions	Φ110mm*110mm*151mm (Φ4.3"x 4.3"x 6.0")
Weight	0.38kg (0.84lb)
Working Environment	-30 °C to 60 °C (-22 °F to 140 °F), Humidity: ≤ 95% RH (non-condensing)
Storage Environment	-30 °C to 60 °C (-22 °F to 140 °F), Humidity: ≤ 95% RH (non-condensing)
Surge Protection	4 KV
Reset Button	Support
LED Indicator	1, red/blue

Dimensions



Accessories

TR-JB05-A-IN

Small Bullet Junction Box(Support wiring from behind,Square)



TR-UP06-B-IN

Bullet Pole Mounting Bracket



TR-UP06-C-IN

Pole Mounting Bracket for Bullet Junction Box Only



TR-A01-IN

NPT 3/4" Waterproof Cable Gland



TR-UC08-C

Bullet&Dome Corner Mounting Bracket

**Zhejiang Uniview Technologies Co., Ltd.**

No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China (Zhejiang) Pilot Free Trade Zone, China

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VERIFICATION OF COMPLIANCE

Verification No.: KSCR240900175501ATC

Applicant: Zhejiang Uniview Technologies Co., Ltd.

Address of Applicant: No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China

Manufacturer: Zhejiang Uniview Technologies Co., Ltd.

Address of Manufacturer: No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China

Product Description: IP Camera

Model No.: Uho-P2A-M3F4D,Uho-P2A-xxxxxxx-yyy-yyyy-zzzz ("x" can be 0-9, A-Z, a-z or blank, denoting difference in interface, "y" can be 0-9,A-Z,a-z or blank, denoting performance difference, "z" can be 0-9,A-Z,a-z or blank, denoting target regional, "-" is optional)

Test Standards: EN 300 328 V2.2.2
EN 301 489-1 V2.2.3
EN 301 489-17 V3.2.4
EN IEC 62311:2020

Test Report Number(s): KSCR240900175501; KSCR240900175502; KSCR240900175503

Conclusion

Based on a review of the test report(s) detailed above, this apparatus meets the requirements of above standards. The product is in conformity with the essential requirements of Article 3.1 (a) the protection of the health and with/without safety, 3.1 (b) an adequate level of electromagnetic compatibility and 3.2 effective use of the spectrum of 2014/53/EU.

The CE mark can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.



Terry Hou
Technical Manager

Compliance Certification Services (Kunshan) Inc.

Date: 2024-09-23



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Compliance Certification Services (Kunshan) Inc.
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Member of the SGS Group (SGS SA)

VERIFICATION OF COMPLIANCE

Verification No.: KSCR250300035101ATC

Applicant: Zhejiang Uniview Technologies Co., Ltd.

Address of Applicant: No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China

Manufacturer: Zhejiang Uniview Technologies Co., Ltd.

Address of Manufacturer: No. 369, Xietong Road, Xixing Sub-district, Binjiang District, Hangzhou City, 310051, Zhejiang Province, China

Product Description: IP Camera

Model No.: Uho-P2A-M3F4D, Uho-P2C-M4F4, Uho-P2A-xxxxxxx-yyy-yyyy-zzzz, Uho-P2C-xxxxxxx-yyy-yyyy-zzzz ("x" can be 0-9, A-Z, a-z or blank, denoting difference in interface, "y" can be 0-9, A-Z, a-z or blank, denoting performance difference, "z" can be 0-9, A-Z, a-z or blank, denoting target regional, "-" is optional)

Test Standards: EN 55032: 2015+A11:2020+A1:2020
EN 50130-4: 2011 +A1:2014
EN 61000-3-3: 2013+ A1:2019+A2:2021
EN IEC 61000-3-2: 2019+A1:2021+A2:2024

Test Report Number(s): KSCR250300035101

This Verification of EMC Compliance has been granted to the applicant based on the results of the tests, performed by laboratory of Compliance Certification Services (Kunshan) Inc. on the sample of the above-mentioned product in accordance with the provisions of the relevant specific standards under Directive 2014/30/EU. The CE mark can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.



Terry Hou
Technical Manager

Compliance Certification Services (Kunshan) Inc.




Date: 2025-03-21

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VERIFICATION OF COMPLIANCE

No.: SUES2503000355AT
Applicant: Zhejiang Uniview Technologies Co., Ltd.
No. 369, Xietong Road, Xixing Sub-district, Binjiang District,
Hangzhou City, 310051, Zhejiang Province, China
Manufacturer: Zhejiang Uniview Technologies Co., Ltd.
No. 369, Xietong Road, Xixing Sub-district, Binjiang District,
Hangzhou City, 310051, Zhejiang Province, China
Product Name: IP Camera
Product Description: IP Camera
Model No.: Uho-P2A-M3F4D, Uho-P2C-M4F4,
Uho-P2A-xxxxxxx-yyyyyyy-zzzz,
Uho-P2C-xxxxxxx-yyyyyyy-zzzz,
(where x, y, z may be 0-9, A-Z, a-z or blank, "-" may be blank)
Trade Mark: 
Rating: 12 V d.c., 1,0 A
Protection against Electric Shock: Class III
Additional Information (if any): None
Sufficient samples of the product have been tested and found to be in conformity with
Test Standard: EN IEC 62368-1:2020+A11: 2020
as shown in the
Test Report Number(s): SUES240900138402

This Verification of Compliance has been granted to the applicant based on the results of tests, performed by Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards.


Dan Xie
Technical Manager
SGS-CSTC Standards Technical Services Co., Ltd.

2025-05-09

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