

Pro series | Mini Dome Camera

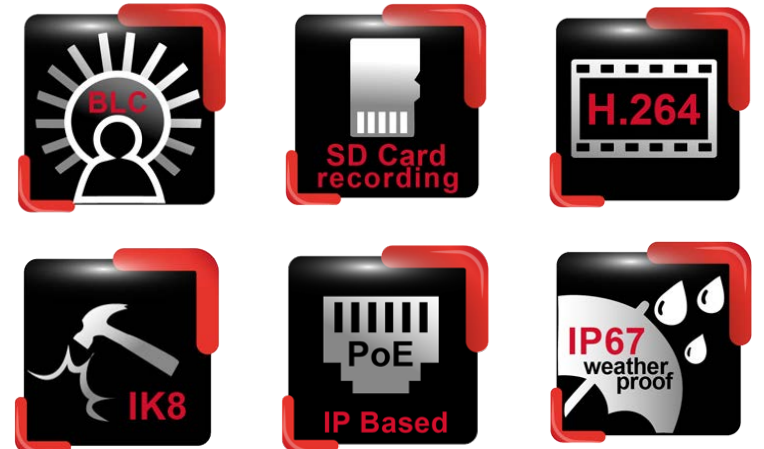
# IPD6220(M12) / IPD6222(RJ-45)

## 1080P HD Vandal Microdome IP Camera

www.meritlilin.com



As with all Pro series cameras, IK8 vandal proof dome 1080P HD Vandal Resistant Dome IP Camera IPD6220 / IPD6222 incorporates Sense up+, a unique technology that successfully delivers stunning video in low-light conditions. Utilizing intelligent image signal processing, AGC control, and 3D Noise Reduction, this model successfully delivers the ultimate low-light image without motion blur. The IPD6220 / IPD6222 is capable of producing four independent video streams, different streams can be set for different applications, depending on the individual user requirements. The IP67-rated housing is designed to help the camera body withstand rain and dust and ensures operation under a multitude of harsh weather conditions.



- ▶ Microdome IP camera
- ▶ Wide Dynamic Range
- ▶ IK8 impact resistant
- ▶ IP67 rain and dust resistant
- ▶ 1080p video resolution
- ▶ Easy to install

Dimensions (unit in mm): Ø 115 x 40

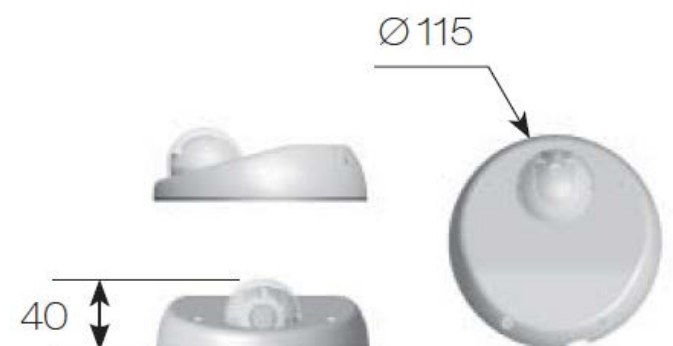
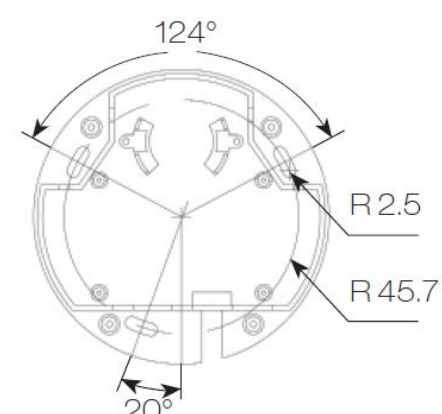
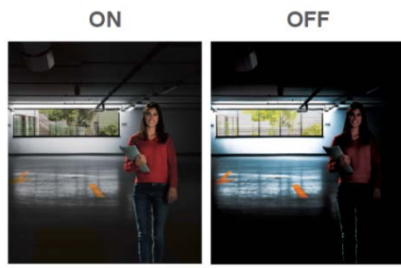


Diagram of mounting holes (unit in mm):



## Wide Dynamic Range

An Wide Dynamic Range image is made by taking 3 frames of the same scene and each at different shutter speeds to display details of both the darkest and brightest areas. WDR can extend image visibility under high contrast lighting scenes and improve image quality



## Impact Resistant

IK8-certified housing designed to protect the camera from destructive behaviour



## Sense Up+

Deliver outstanding video outputs in poor light conditions without experiencing motion blur. You can see video clearly even during nighttime without sufficient lighting support



## Face Detection

Automatically detects a human face



## Video Security App

Available on Android and iOS – **LILINViewer** app provides security alarm push notification, real-time live viewing, and remote video playback



## SD Cards in Sync with NAV Software

IPD6220/6222 camera with built-in Micro SD/SDHC card slots can provide redundant video viewing and recording. You can synchronise an SD card with LILIN VMS (Video Management Software) – Navigator (NAV)



## ONVIF-compliant

Open Network Video Interface Forum (ONVIF) is a standard for physical IP based security products. IPD6220/6222 camera is ONVIF Profile S conformant



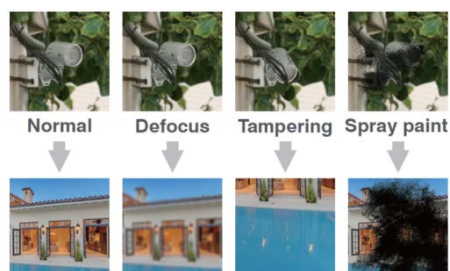
## Motion Detection

Detect motion and capture the event. Motion in the selected area will provoke an alert



## Tamper Detection

Automatically detects camera sabotage or failure. Detects any attempts to tamper with the camera – partially or completely blocking its lens or field of view



## Wind and Rain Standards

Meet international IP67 standards for dust and moisture resistant allowing you to install cameras in environments subject to wind and rain



## 1080P HD Vandal Microdome IP Camera

### Video performance & power

Model#	IPD6220ES2	IPD6220ES4.3	IPD6222ES2	IPD6222ES4.3
Low Light Mode (Color)	0.4 Lux at F1.8	0.2 Lux at F1.6	0.4 Lux at F1.8	0.2 Lux at F1.6
Power consumption	5W		DC12V, 4.5W / PoE, 5W	
Power supply	PoE (IEEE 802.3af compliant)		DC12V ±10% / PoE (IEEE 802.3af compliant)	

### Lens

Model#	IPD6220ES2	IPD6220ES4.3	IPD6222ES2	IPD6222ES4.3
Focal length	2.8mm	4mm	2.8mm	4mm
Iris	F1.8	F1.6	F1.8	F1.6
Angle of view	H	114°	84.8°	114°
	V	64°	45.2°	64°
	D	134°	100.6°	134°

### Sensor

Sensor type	1/2.7" CMOS image sensor
Effective pixels	1920 (H) x 1080 (V) = 2,073,600 (pixel)

### Certifications

CE	Yes, EMICLASSA
FCC	Yes, EMICLASSA
IP rating	IP67 waterproof
IK rating	IK8 vandalproof
Regulatory approvals	Rolling Stock, EN50155: 2007 compliance (shock, vibration, temperature, and EMC)

### PC requirement

CPU	Intel Pentium 4 1.8GHz or above
OS	Windows 2000, Windows XP, Windows Vista, Windows 7, Windows 8
RAM	1GB or above, Independent Display Card
Web browser	Microsoft® Internet Explorer® 6 and later

### Mechanical

Dimensions	Ø115 x 40mm
Weight	310g approx.

### Video streaming

Video compression	H.264, Motion JPEG
Streaming	RTP/HTTP, RTP/TCP, RTP/UDP, Multicast
Bitrate	128Kbps-8Mbps Frame rate and bit rate controllable on-the-fly VBR / CBR / GOP supported
IP address filter	Yes
RTSP Authentication	On / Off

### Network security

User accounts	10 user accounts available
Access	Multiple user access levels with password protection
Encryption	Base 64 HTTP encryption

### Environmental

Operating temperature	-40°C-+50°C (-40°F-131°F)
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### Video resolution (H x V)

1080P	1920 x 1080	
720P	1280 x 720	
D1	720 x 480	
CIF	352 X 240	
Multiple profile	Profile #1	H.264: up to 30 FPS @ 1920 x 1080, MJPEG: up to 30 FPS @ 720 x 480
	Profile #2	H.264: up to 30 FPS @ 1280 x 720, MJPEG: up to 30 FPS @ 352 x 240
	Profile #3	H.264: up to 30 FPS @ 1920 x 1080, MJPEG: up to 30 FPS @ 1280 x 720
	Profile #4	H.264: up to 30 FPS @ 720 x 480, MJPEG: up to 15 FPS @ 1920 x 1080

### Video functions

Scanning system	Progressive scan
White balance	Auto / tungsten / indoor / fluorescents1 / fluorescents2 / outdoor1 / outdoor2
Electronic shutter	1/30(1/25)s-1/8000s
Auto Gain Control	36 dB Variable Gain
Back light compensation	Off / On
Privacy masking	Off / on (4 zones)
Image effects	Brightness, Contrast, Hue, Saturation, Sharpness, Mirror, Flip
2D WDR	Off / Auto / x2 / x3 / x4
D/N quality setting	Yes

### Integration

Mobile application	Integrated to LILIN mobile app (LILINViewer) iPhone, iPad, Android support
Video management	ONVIF Profile S LILIN CMX3.6 NAV 1.0 Third party VMS through LILIN HTTP API
Firmware	Firmware upgrade via HTTP Firmware available to download at meritlilin.com

### Network

CPU, Memory	Embedded SoC ARM11, 528MHz, 256MB DDR2, 256MB flash memory	
OSD	Text overly for date, time, and camera name	
Users	8 simultaneous users	
Video display	LILIN Universal ActiveX & LILIN Java Applet	
Connectivity	ONVIF Profile S	
Ethernet	10Mbps / 100Mbps Base-T, M12 connector (IPD6220ES4.3)	10Mbps / 100Mbps Base-T, RJ-45 (IPD6222ES4.3)
OS	Embedded Linux 2.6.32	
Audio	One-way Audio, G.711 u-law / PCM, Built-in Microphone	
Protocols	IPv4, IPv6, TCP, UDP, HTTP, SMTP, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, ICMP, IGMP, ONVIF Profile S, SNMP, SIP, Bonjour	
Multi IP address	Yes	

### Main functions

Sense up	Off / 1 frame / 2 frames / 3 frames / 7 frames
Sense up +	Yes
3D Noise Reduction	Off / 1-32 selectable
Alarm function	Face / tampering / audio / motion detection Image upload over FTP and E-mail by face / tampering / audio / motion detection
SD card recording	Support Micro SD/SDHC card for circular recording (card is not included)
ePTZ & digital zoom	Yes, ROI is supported
Alarm event actions	FTP, SMTP, HTTP post, SD card, SAMBA
Alarm weighted mode	Yes