

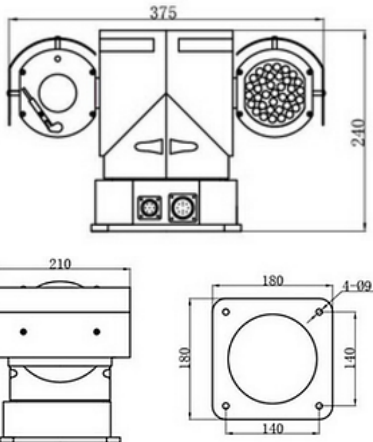


# Ocular Smart Ultra 4K IR Starlight PTZ Series

Lens/Zoom Ordering Part Numbers  
 Mod 100-22-4SM = 4K resolution; 22x Zoom  
 Mod 101-44-2SM = 1080P Resolution; 44x Zoom

**IP66 SMART 4K H.265 SD 22x/44x PoE**

- Ultra 4K High Definition
- 22x Optical/ 16x Digital Zoom
- 150Mt IR Distance
- 3D Intelligent Positioning
- Environmental IP66
- Smart Advanced Analytics
- Color Night Vision **SONY**
- Internal SD Storage
- Intelligent Wiper



### Camera

Image Sensor 1.1/1.7" Progressive Scan Sony CMOS  
 Minimum Illumination 0 lux w IR ON  
 Shutter Speed 1 ~ 1/10,000 seg  
 Focus Auto, semi auto, manual  
 Lens Focal Length 5.0~220mm 44x or 6.5~143mm 22x  
 Angle of view 56.7 Wide ~ 3.07 Tele  
 Aperture Range F1.6~F5.0  
 Infrared Range Up to 150 mts, automatically adjusted with zoom  
 Digital Noise reduction 3D DNR & Smart Dynamic Noise Reduction sDNR  
 Wide Dynamic Range Digital WDR (on/off)  
 White Balance Auto, manual, ATW, interior, exterior, daylight, lamp  
 Pan/Tilt/Rotat/ Preset Pan 360, tilt -15 to 90, auto flip, speed 200/sec / 256 presets  
 Zoom 22x Optical; 16x Digital or 44x Optical; 22x Digital  
 Intelligent remote controlled wiper w auto clean mode

### Wiper

### Compression Standards

Video Compression H.265+/ H.265 / H.264+/ H.264 / MJPEG  
 H.265 Type Main Profile  
 Video Bit rate 32 Kbps to 16 Mbps  
 Number of Streams 3 (Unicast or multicast)  
 Audio 16kbps  
 G.711 (u/alaw)/G.722/G.726/MP2L2/64kbps(G.711)

### Image

Maximum Resolution Full Ultra 4K Real Time 3840x2160 or 1080P HD 1920x1080  
 Stream Frame Rate Max Ultra 4K 3840x2160 @ 30 fps / 25fps  
 1080P HD 1920x1080 @ 60fps High Speed  
 Image Settings Rotate, saturation, brightness, sharpness, contrast  
 Backlight Compensation Yes, Zone configurable  
 Zones of interest Yes up to 128 configurable areas  
 Privacy Masks Yes up to 10 configurables

### Analytics

Smart Features Line crossing, intrusion, People Counting, Parking, Enter Area  
 Face Detection, Loitering, Object left, Object moving, Traffic

### Network

Network Storage NAS (Supports NFS, SMB / CIFS); ANR  
 Alarm Triggers Motion, line crossing, network disconnect, IP conflict  
 Protocols TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP  
 RTSP RTSP PPPoE NTP UPnP SMTTP SNMP IGMP 802.1X QoS IPv6 IPv4  
 Security Three level user authentication, password authorization, HTTPS and SSH Certificate, IEEE802.1X, basic and digest authentication, watermark, IP address filtering, log-in lockout  
 ONVIF (profile S, G), PSIA, CGI, ISAPI

### Standards

### Interface

Communication 1 RJ45 10M / 100M Auto Ethernet port  
 On-Board Storage Built in micro SD / SDHC / SDXC slot up to 64GB (opt)  
 Alarm 1 alarm I/O  
 Audio 1 audio I/O dry contact

### General

Operating Conditions -35C TO 60C, humidity 90% or less (non-condensating)  
 Power 24 VAC +/- 10%, Hi-PoE (802.3af), UL/cUL Listed  
 Power Consumption Maximum 38 watt w IR ON / 30 Watt IR OFF  
 Protection TVS 4,000V Lighting Protection, Surge Protection  
 Ingress Protection IP 66, heater and cooling vent controlled by thermostat  
 Impact Protection IEC60068-275Eh, 20J; EN 50102; IK10  
 Regulations IEC/EN 61000, IEC/EN 55022, IEC/EN 55024, IEC/EN60950-1  
 FCC Part 15, Class , UL cUL 60950-1, RoHS