

# Ocular Ultra HD Laser PTZ Series

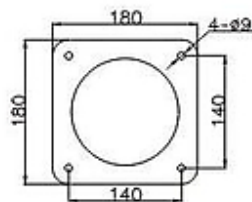
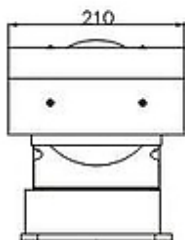
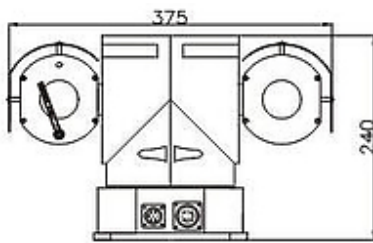


Lens/Zoom Ordering Part Numbers  
 Mod 83-20-25L = 1080P resolution; 20x Zoom; Starlight  
 Mod 85-36-2 = 1080P/Resolution; 36x Zoom  
 Mod 86-20-4 = 2K Resolution; 20x Zoom



**IP66 Rugged 2K H.265 Laser 20x/36x PoE**

- Ultra 2K High Definition
- 20x or 36x Optical
- 500Mt Laser Range
- 3D Intelligent Positioning
- Environmental IP66
- Smart Wiper
- Color Night Vision
- Internal SD Storage



### Camera

Image Sensor 1.1/1.7" Progressive Scan Sony CMOS  
 Minimum Illumination 0 lux w Laser ON  
 Shutter Speed 1 ~ 1/10,000 seg  
 Focus Auto, semi auto, manual  
 Lens Focal Length 20x 4.7mm~94 mm or  
 36x 4.6mm~167mm  
 20x 4.7mm ~ 94mm  
 Angle of view 100 Wide ~ 3.07 Tele  
 Aperture Range F1.6~F5.0  
 Laser Range Up to 500 mts / 0.5 KM, 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 /Rotation /Preset Pan 360, tilt \_15 to 90 ( auto flip ), speed 200 /sec / 256 presets  
 Zoom 20x Optical; 16x Digital or  
 36x Optical; 22x Digital  
 20x Optical; 18x 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 2 ( unicast or multicast )  
 Audio G.711 ( u / alaw ) / G.722 / G.726 / MP2L2 / 64kbps ( G.711 ) / 16kbps

### Image

Maximum Resolution Starlight HD 1080P 1920x1080 or  
 1080P HD 1920x1080  
 Ultra 2K 2592x1944  
 Stream Frame Rate 1080P HD 1920x1080 @30fps or  
 1080P HD 1920x1080 @ 30fps or  
 2592x1944 @ 15fps; 2304x1296 @ 30fps  
 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 Motion, Auto Tracking, 3D Scan

### 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  
 RTCP PPPoE NTP UPnP SMTP 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 Laser ON / 30 watt Laser 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