

# IPC427

## 2.0MP Starlight HD 20x Speed Dome Camera



### Features

#### Excellent Image Quality

- 2.0 Megapixel 1/2.8" progressive scan CMOS sensor
- High definition and smooth picture, 1920 x 1080@30fps
- H.265 video codec, saves up to 50% bandwidth and storage
- Ultra low illumination, 0.006lux with color picture
- IR automatically adjusts
- WDR / 3D noise reduction / HLC / BLC

#### Intelligent Functions

- Motion detection / Tampering / Guard line / Enter guard area / Exit guard area

#### Long Operation Lifespan

- Industrial components, withstands operation temperatures of -40°C ~70°C
- IP66, TVS 6000V lightning protection, surge protection and voltage transient protection

#### Large Scale

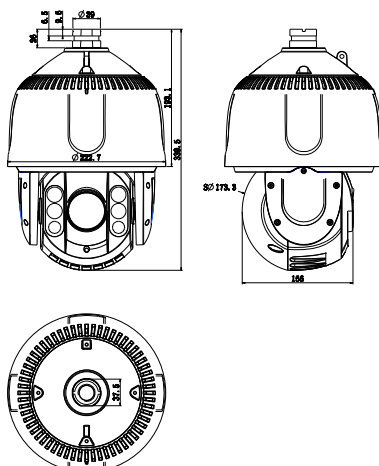
- 20x optical zoom
- IR distance up to 180m

#### Abundant Functions and Features

- Micro SD card optional, supports Automatic Network Replenishment (ANR)
- Up to 3 Multi-stream
- Bi-directional audio / alarm in and out
- Built-in O-sensor
- PoE (-D120-N)

### Dimensions

Units: mm



### Specification

|                                       | IPC427-D020-N  | IPC427-D120-N   |
|---------------------------------------|--|---|
| <b>Camera</b>                         | IPC427-D020-N  |   |
| Image Sensor                          | 1/2.8" progressive scan CMOS   |   |
| Pixels                                | 2.0 Megapixel  |   |
| Min. Illumination                     | Color: 0.006lux @ (F2.8, AGC ON)<br>B/W: 0.0005lux @ (F2.8, AGC ON); 0lux with IR  |   |
| Shutter Speed                         | 1 ~ 1/30,000s  |   |
| Day / Night                           | Auto (ICR) / Color / B/W   |   |
| Wide Dynamic Range                    | Digital WDR  |   |
| S/N Ratio                             | > 57dB   |   |
| White Balance                         | Auto / Manual  |   |
| Gain Control                          | Auto / Manual  |   |
| Backlight Compensation                | Off / WDR / BLC / HLC  |   |
| <b>Lens</b>                           |  |   |
| Focal Length                          | 5.2 ~ 100.4mm, 20x optical   |   |
| Zoom Speed                            | Approx 3s (Optical)  |   |
| Angle of View                         | 61° ~ 3.64° (Wide~Tele)  |   |
| Min. Object Distance                  | 1000 ~ 1500mm (Wide~Tele)  |   |
| Max. Aperture Ratio                   | F2.8   |   |
| Focus Control                         | Auto / Manual / Semi-Automatic   |   |
| <b>Infrared</b>                       |  |   |
| IR LED                                | 6 pcs IR LED Array   |   |
| IR Distance                           | 120 ~ 180m   |   |
| IR Intensity                          | Automatically adjust according to zoom ratio   |   |
| <b>Pan and Tilt</b>                   |  |   |
| Pan / Tilt Range                      | 360° Endless / -15° ~ 90° (Auto Flip)  |   |
| Pan / Tilt Speed                      | Pan manual speed: 0.1° ~ 160°/s; Pan preset speed: 160°/s<br>Tilt manual speed: 0.1° ~ 120°/s; Tilt preset speed: 120°/s |   |
| Proportional Zoom                     | Pan / Tilt speed can be adjusted automatically according to zoom multiples   |   |
| Preset                                | 256  |   |
| Patrol                                | 8 Patrols scheme, up to 32 presets per patrol  |   |
| Pattern Scan                          | 4 Scan paths, each path can record 10 minutes of operation path  |   |
| Power-off Memory                      | Power-off memory / Power-on recovery   |   |
| Auto Guard                            | Path / Preset / Mixed / Pan scan / Tilt scan / Frame scan / Random scan / Panorama scan                                  |   |
| PT Limit                              | Manual / Scan / Pan  |   |
| 3D Positioning                        | PTZ control with mouse click and drag  |   |
| Electronic compass                    | Built-in O-sensor  |   |
| <b>Video</b>                          |  |   |
| Compression                           | H.265 / H.264 / MJPEG  |   |
| Image Resolution                      | Main stream: 1080p<br>Secondary stream: 720p   |   |
| Frame Rate                            | Main stream: 1080p@30fps<br>Secondary stream: 720p@30fps   |   |
| Bitrate                               | 32~16384kbps   |   |
| Bitrate Control                       | VBR / CBR  |   |
| Multi-stream                          | Supported  |   |
| Caption                               | Date and time / Alarm / Direction / Customized   |   |
| Privacy Masking                       | Up to 4 zones  |   |
| Motion Detection                      | Up to 4 zones  |   |
| Video Freeze                          | Supported  |   |
| ROI                                   | Supported  |   |
| Digital Noise Reduction               | 3D noise reduction   |   |
| Electronic Defog                      | Supported  |   |
| Image Flip                            | Flip / Mirror  |   |
| <b>Audio</b>                          |  |   |
| Compression                           | G.711a / G.711u / ADPCM / G.722 / AAC-LC / G.722.1c / G.726  |   |
| Bitrate                               | 32kbps ~ 64kbps  |   |
| Audio Function                        | Bi-directional audio / AEC / Mixed audio recording / Dumb / Mute   |   |
| <b>Network</b>                        |  |   |
| Network Protocols                     | TCP/IP, UDP, HTTP, DHCP, DNS/DDNS, RTP/RTCP, RTSP, PPPoE, FTP, VSIP, UPnP, 802.1x, NAT, QoS, SMTP, IPv4, IPv6 (optional) |   |
| User Interface                        | IPC Control (IE, Firefox, Chrome)  |   |
| Max. User Access                      | Max. 10 Users (includes 2 internal)  |   |
| Application Programming               | ONVIF (Profile S, Profile G), GB/T 28181-2011, API, CGI  |   |
| Automatic Network Replenishment (ANR) | Supported  |   |
| <b>Alarm</b>                          |  |   |
| Alarm Triggers                        | Alarm input / Network disconnect / Disk full / Disk error  |   |
| Intelligent                           | Motion detection / Tampering / Guard line / Enter guard area / Exit guard area   |   |
| Alarm Events                          | Alarm report / Recording / Text overlay / Snapshot / External output / Email notice / Acoustic alarm                     |   |
| <b>Interfaces</b>                     |  |   |
| Ethernet                              | 10/100M, RJ45 interface  |   |
| Audio In / Out                        | 1 x Line in / 1 x Line out   |   |
| Alarm In / Out                        | 2 x Input / 1 x Output   |   |
| Memory Slot                           | Built-in SD card (optional), supports up to 128GB  |   |
| <b>Environmental</b>                  |  |   |
| Operating Temperature                 | -40°C ~ 70°C / -40°F ~ 158°F   |   |
| Operating Humidity                    | 10% ~ 95%  |   |
| Protection Level                      | IP66, TVS 6000V lightning protection, surge protection and voltage transient protection                                  |   |
| <b>Electrical</b>                     |  |   |
| Power                                 | 24V AC / 3A (Power adapter included)   | 24V AC / 3A (Power adapter not included) / Hi-PoE (PSE module included) |
| Power Consumption                     | Max. 35W (IR on)   |   |
| <b>Mechanical</b>                     |  |   |
| Weight                                | 6.6 kg / 14.55lb (Gross Weight)  |   |
| Dimensions                            | Φ222.7 x 339.5mm / Φ8.77" x 13.35"   |   |