# Sharx  HTNC4403DM
### Full HD 60 fps Indoor/Outdoor IR Dome, Motorized 3x Zoom

## Key Features

- Full HD(1920x1080) 60 fps for capturing fast motion or 30 fps for higher light sensitivity
- Motorized varifocal lens 3-9mm (F1.2), motorized 3x optical zoom with smart focus
- True Wide Dynamic Range (120dB)
- True Day & Night
- 24 IR LEDs for 60 ft night vision coverage in total darkness
- Connectors for Audio In/Out (1/1), Alarm In/Out (1/1)
- Solid metal base with concealed cable connection on ceiling or with optional wall bracket
- MicroSDHC card up to 256 GB (optionally available from Sharx Security and other sources)
- PoE, 12VDC, or 24VAC (power supply not included)
- Suitable for US government applications - made in Korea without Huawei components

### Icons
2 MP | D&N | 2DNR | Onvif | PoE
H.264 | SD Slot Micro SD | BLC | WDR | IP66 | IR LED

## Key Functions

- Auto Exposure, Auto White Balance, Backlight Compensation
- Triple Stream (H.264, MJPEG) for simultaneous access to lo and hi resolution
- Onvif Profile S for compatibility with existing NVRs or software
- Easy Installation with IP Discovery software for Windows or Bonjour for Mac
- Full support for Internet Explorer, partial support for other browsers
- Advanced Intelligent Health Management automated diagnostic notification
- Event Boosting, FTP Image Upload, Open VPN, QoS, IP Filtering
- Privacy Masking with Face Detection
- Event Buffering for showing video prior to motion detection or other event

## Other models in this series

- **HTNC4410M** (10x autofocus zoom)
- **HTNC4503M, HTNC4503DM** (5 MP, 3x zoom, IR bullet or dome)
- **HTNC4420PTZ** (PTZ dome, 20 x autofocus zoom)
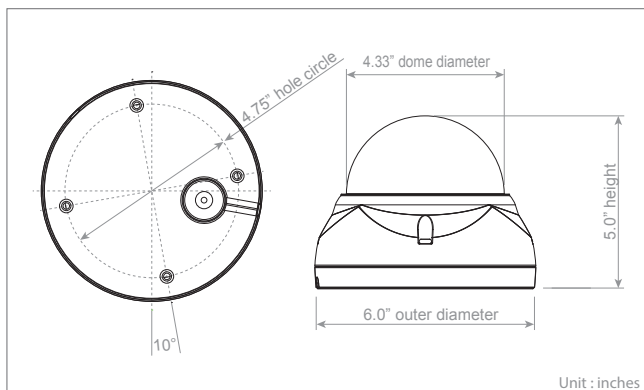- **HTNC4430XIR** (IR PTZ, 30 x autofocus zoom, extended IR 1300 ft night vision)

## Software

- Includes free Titanium V2 256 camera viewing software for PC and Mac (requires MicroSD or Sharx Security NVR for recording, NVR recommended)
- Supports Milestone VMS (free for 8 cameras, any resolution, no time limit)
- Supports 16 Camera BlueIris on PCs, 16 camera SecuritySpy on Mac
- Supports Luxriot, Genetec, Aimetis, SightHound, OpenALPR, IPTimeLapse, VLC

## Optional Sharx Accessories

- **HDB** Outdoor Wall Bracket with concealed cabling, suitable for pre-wiring
- **HCS** Indoor Flush Mount Ceiling Support Bracket, suitable for pre-wiring
- **HTCP2701:**     PoE power + networking for up to 1.5 miles range over coax
- **HTNR16560:**    480 fps  16-camera 5 MP NVR with 16 PoE, up to 24 TB storage
- **HTNR32620:**    960 fps  32-camera 4K NVR with 16 PoE, up to 48 TB storage
- **HTVM64600:**   1920 fps  64-camera 2/4/8 NVR link, up to 48 TB offsite storage
- **HTVM80600S:** 3840 fps 128-camera 2/4/8 NVR link, up to 96 TB offsite storage

## Dimensions

4.75" hole circle
4.33" dome diameter
5.0" height
6.0" outer diameter
10°

Unit : inches

## Technical Specifications

| Model | | HTNC4403DM - made in South Korea |
|---|---|---|
| **IMAGE** | | |
| Lens | | Motorized Vari-focal 3.0-9.0mm, F1.2, DC IRIS |
| Angle of View | | 100° (wide angle) to 40° (moderate telephoto), horizontal measurement |
| Image Sensor | Type | 1/2.8" SONY Exmor CMOS Sensor |
| | Pixels | 1944(H)x1224(V) |
| Min. Illumination | | Color : 0.4 Lux / BW : 0 Lux @ F1.2, 50IRE(IR LED On) |
| Scanning Mode | | Progressive Scan |
| Wide Dynamic Range | | True WDR(120dB) |
| Day and Night Mode | | True Day & Night(Auto, Day, Night) |
| Noise Reduction | | 3DNR |
| Digital Zoom | | 16X |
| Exposure Control | | Auto, Hold Current |
| White Balance Control | | Auto, Incandescent, Fluorescent, Outdoor |
| Back Light Compensation | | Yes |
| Image Effect | | Flip, Mirror, Aisle |
| Flicker Free Mode | | 50Hz, 60Hz |
| Shutter Speed | | Auto(1/10,000 to 1 sec), Manual |
| IR Illuminator | Quantity | 24 IR LEDs |
| | Angle | 78° |
| | Distance | 60 ft |
| Motorized Lens Control | | Yes |
| **VIDEO/AUDIO** | | |
| Compression | | H.264(Baseline, Main, High Profile), MJPEG |
| Bitrate Control | | CVBR, VBR |
| Resolution | | 1920x1080, 1280x1024, 1280x720/960, 1024x768, 704x480/576, 640x360/480, 320x240 |
| Frame Rate | | Max. 60 fps @ Full-HD |
| Streaming | | Max. 60fps (Dual Stream : H.264x1, MJPEGx1) Max. 30fps (Triple Stream : H.264x2, MJPEGx1) |
| Composite Out | | Yes (requires special cable accessory, not included) |
| Audio Compression | | AAC or G.711 (with user supplied external amplified microphone) |
| Audio Streaming | | 2 Way (with user supplied external amplified speaker) |
| **SYSTEM** | | |
| Video Contents Analysis | | Image Stabilization, Face Detection, Tampering, Line & Field Detector |
| Motion Detection Area | | 16 Programmable Areas (8 Include Areas, 8 Exclude Areas) |
| Special Features | | Aisle Mode (90 or 270 degree rotation), 8 Privacy Zones |
| Email Attachment and FTP Upload | | JPEG |
| Event Notification | | E-mail, FTP, Notification Server, XML Notification, Audio Alert, AIHM |
| Audio Alert | | User-Defined 3 Audio files |
| Login Authority | | Administrator, Operator, Guest |
| Event Buffering | FTP | Pre : 30sec, Post : 30sec |
| | SD Record | Pre : 10sec, Post : 60sec |
| Manual Trigger | | 4 Programmable Triggers |
| Security | | Multi User Authority, IP Filtering, HTTPS & SSL (for admin/settings) |
| Network Time Sync | | NTP Server, Synchronized Computer, Manual |
| Software Reset | | Restart, Reset, Factory Default |
| Hardware Factory Reset | | Yes |
| Auto Recovery | | Backup, Restore |
| Remote Upgrade | | Yes |
| SD Recording Mode | | Event, Continuous |
| **NETWORK** | | |
| Protocol | | TCP/IP, UDP, IPv4/v6, HTTP, HTTPS, QoS, FTP, UPnP, RTP, RTSP, RTCP, DHCP, ARP, Zeroconf, Bonjour |
| Client Software | | Internet Explorer, Titanium, Milestone, LuxRiot, BlueIris, SecuritySpy, VLC |
| Max. User Connection | | Live : 10 Users, Playback : 3 Users |
| API Support | | Open API, Onvif Compliance |
| Mobile Support | | Mobilinc, tinyCam, ONVIF compatible apps, free Titanium for use with NVR |
| **EXTERNAL IN/OUT** | | |
| Video Composite Out | | 3.5mm jack for optional accessory monitor |
| Audio | | 1 Input, 1 Output (3.5mm Stereo Jack) |
| Alarm | | 1 Input, 1 Output (Terminal Block) |
| Ethernet | | RJ-45(10/100Base-T) |
| MicroSD Card | | MicroSDHC, MicroSDXC (Max 256GB, class 10 or faster) |
| OSD Remote Control | | Wired Remote Controller (3.5mm Stereo Jack, Optional) |
| **ETC** | | |
| Operating Humidity | | 0 to 100 % RH (Weatherproof in rain, snow, ice conditions) |
| Operating Temperature | | -49 F to +113 F powered by 24VAC,  +14 F to +120 F powered by PoE or 12 V |
| Power Supply | | PoE (802.3 af Compliance), 12VDC |
| Power Consumption | | 179mA (7.8W) @ PoE 617mA (6.9W) @ 12VDC or 24 VAC without heater up to 30 watts @ 24VAC with heater active |
| Dimension | | 6" diameter x 5" height (152 mm x 125 mm) |
| Net Weight | | Approx. 2.15 lbs |
| Ingress Protection | | IP66 |