

V1772N-T Series

HD 1MP and 2MP IP PTZ Recessed Ceiling and Bracket Mount Dome Camera

Infinova[®]
The Integrator's Manufacturer



- Built-in 18X, 20X and 30X HD integrated camera modules
- Maximum resolution up to 1920×1080 @ 30fps or 1280×720 @ 30fps
- H.264 high profile & M-JPEG dual-stream encoding, three simultaneous video streams
- Two-way audio, G.711-U/G.711-A
- Remote PTZ Control via network
- IPv6, relay output, sending an email, FTP uploading
- Support area zoom, digital zoom (controlled by ActiveX in web) and image PTZ function
- Dome title settings and display
- Support image overlapping
- Multiple white balance modes
- Defog supported
- Preset, pattern, autoscan, autopan, time tour, normal tour and power-on return
- Privacy mask and motion detection
- Supports Auto-tracking
- Heartbeat loss monitoring, linkable to SD card recording
- 2 alarm inputs and 1 relay output
- Local recording, SD card storage
- Compatible with digital video surveillance software like Infinova V2216 and Command
- Standard SDK, easily to be integrated with other digital systems
- Onvif Profile S
- RS-485 control and analog video output for easy adjustment
- Outdoor IP66 rating, with built-in heater and air cycle system and freeze-proof
- Remote upgrade via network
- Rugged design (IK10)

V1772N-T series HD 1MP and 2MP IP PTZ domes provide users a high-definition, high frame rate and high SNR real-time images acquisition system. V1772N-T series PTZ domes provide the ability to view and control H.264 High profile/M-JPEG dual-stream encoded HD video, and also support three video streams. The maximum resolution can be 1920×1080 @ 30fps or 1280×720 @ 30fps.

The dome support built-in 18X, 20X and 30X HD integrated camera modules. The user-friendly GUI interface is designed for easy PTZ control and convenient camera parameter settings. Thus, it makes easier to set the PTZ and perform operations with a mouse than traditional keyboard. In addition, area zoom and image PTZ functions are also offered.

V1772N-T series domes also provide functions such as preset, pattern, autoscan, autopan, etc.

Technical specifications

Models

V1772N-18T0H, V1772N-20T2L, V1772N-20T2T, V1772N-30T0H, V1772N-30T2S, V1772N-30T2H, V1772N-20T2Y, V1772N-30T2Y

Lens

Optical Zoom	18X, 20X, 30X
Digital Zoom	16X
Day/Night	Auto, Color, B/W (ICR) (20TL)
Aperture/ Focal Length	18T0H: F1.6~F2.8, f=4.7~84.6mm 20T2L: F1.6~F3.5, f=4.7~94mm 20T2T: F1.6~F3.5, f=4.7~94mm 20T2Y: F1.6~F3.5, f=4.7~94mm 30T0H: F1.4~F4.6, f=4.4~132mm 30T2S: F1.6~F4.7, f= 4.3~129mm 30T2H: F1.6~F4.6, f= 4.4~132mm 30T2Y: F1.6~F4.7, f= 4.3~129mm
Angle of View	18T0H: 59.7° (W ide) ~ 3.6° (Tele) 20T2L: 59.5° (W ide) ~ 3.2° (Tele) 20T2T: 59.6° (W ide) ~ 3.2° (Tele) 20T2Y: 59.5° (W ide) ~ 3.3° (Tele) 30T0H: 62.9° (W ide) ~ 2.2° (Tele) 30T2S: 63.7° (W ide) ~ 2.3° (Tele) 30T2H: 63.4° (W ide) ~ 2.3° (Tele) 30T2Y: 63.7° (W ide) ~ 2.3° (Tele)
Min. Work Distance	18T0H: 0.01m (W ide) ~ 1.0m (Tele) 20T2L: 0.01m (W ide) ~ 1.0m (Tele) 20T2T: 0.01m (W ide) ~ 1.0m (Tele) 20T2Y: 0.01m (W ide) ~ 1.0m (Tele) 30T0H: 0.01m (W ide) ~ 1.5m (Tele) 30T2S: 0.01m (W ide) ~ 1.2m (Tele) 30T2H: 0.01m (W ide) ~ 1.5m (Tele) 30T2Y: 0.01m (W ide) ~ 1.2m (Tele)

Camera

Scanning System	Progressive scanning
Image Sensor	18T0H: 1/3" CCD 20T2L: 1/2.8" CMOS 20T2T: 1/2.8" CMOS 20T2Y: 1/2.8" CMOS 30T0H: 1/3" CCD 30T2S: 1/2.8" CMOS 30T2H: 1/3" CMOS 30T2Y: 1/2.8" CMOS
Sensitivity (18T0H)	Color mode: 0.8 lux (1/30s, F1.6, 50%, AGC-Gain: 34dB) 0.1 lux (1/4s, F1.6, 50%, AGC-Gain: 34dB) B/W mode: 0.01 lux (1/4s, F1.6, 50%, AGC-Gain: 34dB)
Sensitivity (20T2L)	Color mode: 0.04 lux @ F1.6 (AGC ON) B/W mode: 0.005 lux @ F1.6 (AGC ON)
Sensitivity (20T2T)	Color mode: 0.4 lux @ F1.6(1/30s, 350mV equiv., AGC-Gain: 48dB) 0.1 lux @ F1.6(1/8s, 350mV equiv., AGC-Gain: 48dB) B/W mode: 0.01 lux @ F1.6(1/8s, 350mV equiv., AGC-Gain: 48dB)
Sensitivity (20T2Y)	Color mode: 0.01 lux (1/30 sec, 50%, high sens mode ON) 0.0013 lux (1/4 sec (1/3 sec), 50%, high sens mode ON) B/W mode: 0.0015 lux (1/30 sec, 50%, high sens mode ON) 0.0008 lux (1/4 sec, 1/3 sec, 30%, high sens mode ON)
Sensitivity (30T0H)	Color mode: 0.5 lux (1/30s, F1.4 (wide), 50%, AGC-Gain: 35dB) 0.1 lux (1/4s, F1.4 (wide), 50%, AGC-Gain: 35dB) B/W mode: 0.005 lux (1/4s, F1.4 (wide), 50%, AGC-Gain: 35dB)
Sensitivity (30T2S)	Color mode: 0.35 lux (1/30 sec, 50%,(typical value) high sens mode ON) 1.4 lux (1/30 sec, 50%, high sens mode OFF)

	0.05 lux (1/4 sec, 1/3 sec, 50%, high sens mode ON) 0.19 lux (1/4 sec, 1/3 sec, 50%, high sens mode OFF) B/W mode: 0.013 lux (1/30 sec, 50%, high sens mode ON) 0.05 lux (1/30 sec, 50%, high sens mode OFF) 0.002 lux (1/4 sec, 1/3 sec, 30%,high sens mode ON)
Sensitivity (30T2H)	Color mode: 0.4 lux @ F1.4 (1/30s, 350mV equiv., AGC-Gain: 48dB) 0.1 lux @ F1.4 (1/8s, 350mV equiv., AGC-Gain: 48dB) B/W mode: 0.01 lux @ F1.4 (1/8s, 350mV equiv., AGC-Gain: 48dB)
Sensitivity (30T2Y)	Color mode: 0.01 lux (1/30 s, 50%, high sens mode ON) 0.0013 lux (1/4 s, 1/3 s, 50%, high sens mode ON) B/W mode: 0.0015 lux (1/30 s, 50%, high sens mode ON) 0.0008 lux (1/4 s, 1/3 s, 30%, high sens mode ON)
S/N Ratio	>50dB
Video	
Effective Resolution	1.0 Mpx. (18T0H, 30T0H) 2.0 Mpx. (20T2L, 20T2T, 30T2S, 30T2H, 20T2Y, 30T2Y)
Video Compression	H.264 high profile/M-JPEG
Maximum Resolution	1280x720 @ 30fps (18T0H, 30T0H) 1920x1080 @30fps (20T2L, 20T2T, 20T2Y, 30T2S, 30T2H, 30T2Y)
Output Bit Rate	Variable bit rate; Constant bit rate: 256Kbps~10000Kbps
Network Delay	<300ms
Audio	
Audio Compression	G.711-A, G.711-U
Audio Sampling Rate	8K, 16K
Audio port	1 input, linear level, impedance: 1kΩ; 1 output, linear level, impedance: 600Ω
Storage	
Built-in Storage	With an embedded SD card slot, it is recommended to use an SD card up to 64G Class 6
IP	
Network Port	1*10M/100M Ethernet port, self-adaptive, RJ-45
Network Protocol	IPv4/IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP(v3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, 802.1X, QoS, PPPoE, DNS, ARP, ICMP, DDNS, UPnP
Operational	
Manual Pan Speed	0.1° ~ 350°/s
Manual Tilt Speed	0.1° ~ 180°/s
Preset Speed	Max. 450°/s
Pan Travel	360° continuous
Tilt Travel	0°~180° Auto Flip
Preset Accuracy	±0.1°
Presets	255
Patterns	4
Autopans	4
Tours	6 (each tour can be associated with 14 acts, including preset 1~32, pattern 1~4, autopan 1~4)
Home Return	Yes
Time Tour	Yes
Autoscan	Yes
Motion Detection	Yes, 4 areas
Alarm	Inbuilt 2 alarm inputs, 1 relay output, External 4 I/O
Area Zoom	Yes
Web Server	Yes
Remote Upgrade	Yes
Iris	Auto, Manu, M/A
Focus	Auto, Manu, M/A

Technical specifications (Continued....)

Shutter	18T0H: Auto (1/30s~1/10000s, adjustable) 20T2L: Auto (1/25~ 1/10000s, adjustable) 20T2T: Auto (1/1 ~ 1/30000s, adjustable) 20T2Y:Auto (1/1s~1/10000s, adjustable) 30T0H: Auto (1/4s~1/10000s, adjustable) 30T2S: Auto (1/1s~1/10000s, adjustable) 30T2H: Auto (1/2 ~ 1/30000s, adjustable) 30T2Y:Auto (1/1s~1/10000s, adjustable)
Digital Slow Shutter	Yes (20T2L, 20T2T, 20T2Y, 30T0H, 30T2S, 30T2H, 30T2Y)
Image Mirror	Off/H-mirror (18T0H) Off/H-mirror/V-mirror/HV-mirror (20T2L, 20T2T, 20T2Y, 30T0H, 30T2S, 30T2H, 30T2Y)
Image Freeze	Yes (20T2T,20T2Y,30T0H, 30T2S, 30T2H, 30T2Y)
FNR	18T0H: / 20T2L: OFF/ (1~7levels adjustable) 20T2T: Off/Manu/Auto/(1~3 levels adjustable) 20T2Y:Off/1~5 levels adjustable 30T0H: Off/Manu/Auto/(1~3 levels adjustable) 30T2S: Off/1~5 levels adjustable 30T2H: Off/Manual/Auto/ (1~3 levels adjustable) 30T2Y:Off/1~5 levels adjustable
White Balance	AUTO/MANU/MERC/SODI (18T0H,20T2T,30T0H, 30T2H); AUTO/MANU/INDOOR/OUTDOOR/ATW/OUTDO OR AUTO/SODI (20T2L,20T2Y,30T2S, 30T2Y)
Auto Gain Control	Yes
WDR	18T0H: On/Off 20T2L: On/Off 20T2T: WDR*/AD WDR* 20T2Y:Off/VE[120dB (True WDR)] 30T0H: WDR*/AD WDR* 30T2S: On/Off/Auto[120dB (True WDR)] 30T2H: Off/WDR*/AD WDR* 30T2Y:Off/VE[120dB (True WDR)]
Privacy Masking	Yes 24 3D Zones
Backlight Compensation	On/Off
Others	18T0H: Sharpness adjustable; 20T2L:Sharpness, contrast, brightness, saturation adjustable, slow AE,chroma suppress, edge color suppress; 20T2T: Sharpness adjustable, slow AE, night vision 20T2Y:Sharpness adjustable, slow AE,high sens, high resolution, color hue, saturation, HLC level, HLC mask level 30T0H: Sharpness adjustable, slow AE; 30T2S: Sharpness adjustable, slow AE, high sens mode 30T2H: Sharpness adjustable, slow AE, lum mode, enhanced level, reduction level 30T2Y:Sharpness adjustable, slow AE,high sens, high resolution, color hue, saturation, HLC level, HLC mask level
Mechanical	
Product Dimension (H×D)	Indoor bracket: 11.5" × Φ8.6" (292mm × Φ218mm); Indoor ceiling: 9.4" × Φ8.4" (240mm × Φ214mm) Outdoor bracket: 11.5" × Φ9.4" (292mm × Φ240mm)
Package Dimension (L×W×H)	19.09" × 11.02" × 11.81" (485mm × 280mm × 300mm)
Motor	Stepping motor
Mounting	Bracket, ceiling
Housing Material	Cast aluminum
Net Weight	Indoor bracket: 8.27lbs (3.75kg) Outdoor bracket: 9.83lbs (4.46kg) Indoor ceiling: 6.79lbs (3.08kg)

Gross Weight	Indoor bracket: 11.35lbs (5.15kg) Outdoor bracket: 12.96lbs (5.88kg) Indoor ceiling: 9.88lbs (4.48kg)
Sync	
Sync System	Internal
Electrical	
Power Supply	24VAC/24VDC self-adaptive, POE
Power Consumption	24VAC: 20W (indoor); 35W (outdoor) 24VDC: 20W (indoor); 33W (outdoor)
Surge Protection	Yes, ±2000V
Environmental	
Operating Temperature	Indoor: -4°F ~ +122°F (-20°C ~ +50°C); Outdoor: -40°F ~ +122°F (-40°C ~ +50°C)
Operating Humidity	0 ~ 90%RH (non-condensing)
Rating	IP66
Impact Resistance	IK10
Certifications and Approval	
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3; FCC: Part15 Subpart B; ISO 9001:2008; UL ¹ ; IK10: IEC62262

Certificate No.: ¹ 20131205-E232008.

Ordering information

PTZ Dome Camera Part Numbering

Type	Bubble	V1772N-18T0H	V1772N-30T0H	V1772N-30T2S	V1772N-20T2Y
Indoor Pendant Mount Camera	Vandal-Resistant Clear	V1772N-18T0N3B3H	V1772N-30T0N3B3H	V1772N-30T2N3B3S	V1772N-20T2N3B3Y
	Vandal-Resistant Smoked	V1772N-18T0N4B3H	V1772N-30T0N4B3H	V1772N-30T2N4B3S	V1772N-20T2N4B3Y
Outdoor Pendant Mount Camera	Vandal-Resistant Clear	V1772N-18T0U3B3H	V1772N-30T0U3B3H	V1772N-30T2U3B3S	V1772N-20T2U3B3Y
	Vandal-Resistant Smoked	V1772N-18T0U4B3H	V1772N-30T0U4B3H	V1772N-30T2U4B3S	V1772N-20T2U4B3Y
Indoor Recessed Ceiling Mount Camera	Vandal-Resistant Clear	V1772N-18T0N3C3H	V1772N-30T0N3C3H	V1772N-30T2N3C3S	V1772N-20T2N3C3Y
	Vandal-Resistant Smoked	V1772N-18T0N4C3H	V1772N-30T0N4C3H	V1772N-30T2N4C3S	V1772N-20T2N4C3Y

Type	Bubble	V1772N-20T2L	V1772N-20T2T	V1772N-30T2H	V1772N-30T2Y
Indoor Pendant Mount Camera	Vandal-Resistant Clear	V1772N-20T2N3B3L	V1772N-20T2N3B3T	V1772N-30T2N3B3H	V1772N-30T2N3B3Y
	Vandal-Resistant Smoked	V1772N-20T2N4B3L	V1772N-20T2N4B3T	V1772N-30T2N4B3H	V1772N-30T2N4B3Y
Outdoor Pendant Mount Camera	Vandal-Resistant Clear	V1772N-20T2U3B3L	V1772N-20T2U3B3T	V1772N-30T2U3B3H	V1772N-30T2U3B3Y
	Vandal-Resistant Smoked	V1772N-20T2U4B3L	V1772N-20T2U4B3T	V1772N-30T2U4B3H	V1772N-30T2U4B3Y
Indoor Recessed Ceiling Mount Camera	Vandal-Resistant Clear	V1772N-20T2N3C3L	V1772N-20T2N3C3T	V1772N-30T2N3C3H	V1772N-30T2N3C3Y
	Vandal-Resistant Smoked	V1772N-20T2N4C3L	V1772N-20T2N4C3T	V1772N-30T2N4C3T	V1772N-20T2N4C3Y

Part Number Extensions for Power Input Selection

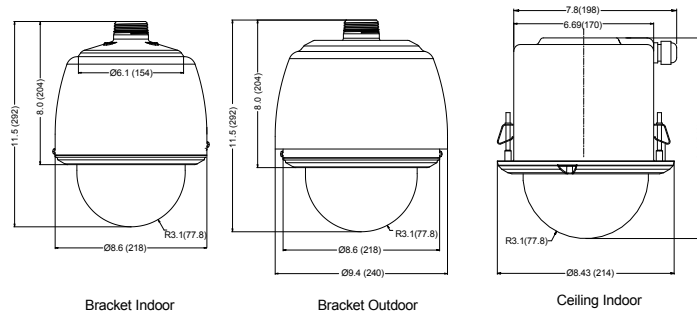
24 VAC / 24 VDC	EX: 24 VAC / 24 VDC Input	PoE	EX: PoE Input
3	V1772N-30T2N3B3S	0	V1772N-30T2N3B0S

Accessories

V1761	Wall Mount, 10 inch horizontal, 1.5 inch NPT
V1761L	Wall Mount, 17 inch horizontal, 1.5 inch NPT
V1762	Corner Mount, 10 inch horizontal, 1.5 inch NPT
V1763	Pole Mount, 10 inch horizontal, 1.5 inch NPT
V1764	Pendent Mount, 15 inch long vertical, 1.5 inch NPT, indoor
V1764A	Pendent Mount, 15 inch long vertical, 1.5 inch NPT, Outdoor side opening for wiring
V1764B	Pendent Mount, 15 inch long vertical, 1.5 inch NPT, Outdoor top opening for wiring
V1765	Parapet Mount, 12 inch horizontal, vertical attachment, 1.5 inch NPT
V1765A	Parapet Mount, V1765 horizontal attachment adapter
V1761K	Wall Mount for V1770N/V1770NR Series PTZ SuperDome, 10 inch horizontal
V1762K	Corner Mount for V1770N/V1770NR Series PTZ SuperDome, 10 inch horizontal
V1763K	Pole Mount for V1770N/V1770NR Series PTZ SuperDome, 10 inch horizontal

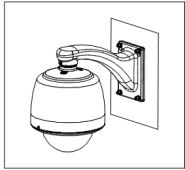
For detailed information, please refer to V1760 series indoor/outdoor dome mounts.

Dimensions

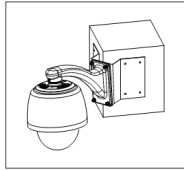


(Unit: inch, in the parentheses is mm)

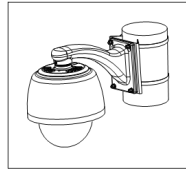
Mounting



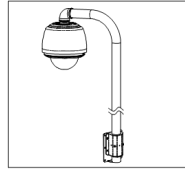
Wall Mounting



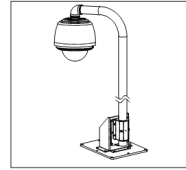
Corner Mounting



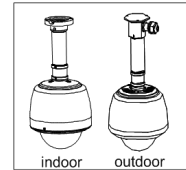
Pole Mounting



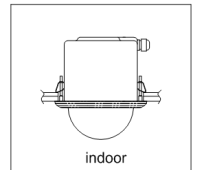
Over-roof Side Wall Mounting



Over-roof horizontal
Surface Mounting



indoor outdoor
Pendant Mounting



indoor
Ceiling Mounting