

Key Functions

- Auto Exposure, Auto White Balance
- Triple Stream(H.264, MPEG4, MJPEG)
- Onvif Profile S
- East Install : Zero Configuration, Discovery, PoE
- Event Boosting, FTP Image upload, Web Casting, Open VPN, QoS, IP Filtering
- Cross Web Browsing(IE, Safari, Firefox, Chrome)
- Privacy Masking
- AIHM Event
- Event Buffering

Series Model

- NBX-2221(Advanced VCA)

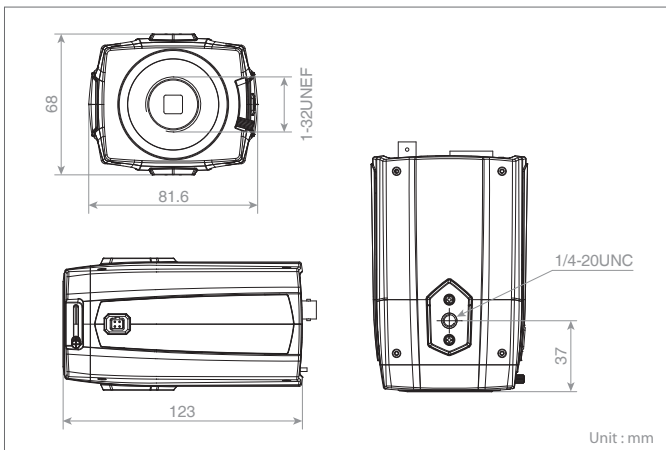
Software

- SmartManager
- NC-Titanium
- Tive HD
- Titanium Plus VMS

Optional Accessory

- HCH Housing Series
- HCS Bracket Series

Dimension



Unit : mm

NBX-2201/HDB-T320

Full HD WDR, Built-in VCA Professional Box Network Camera

Key Features

- Full HD(1920x1080) 50/60fps, 25/30fps
- C/CS Mount Lens
- True WDR(NBX-2201, NBX-2221)
- True Day & Night
- Alarm Input(1), Alarm Output(1), Audio Input(1), Audio Output(1)
- Easy IP Address Setup by Wired Remote Contoller(Remote Contoller Optional)
- SD Card Up to 32GB
- PoE, 12VDC, 24VAC

Technical Specifications

Model	NBX-2201	HDB-T320
Advanced VCA Model	NBX-2221	
IMAGE		
Lens	C/CS Mount	
Angle of View	Lens Dependent	
Image Sensor	Type	1/2.8" SONY Exmor CMOS Sensor
	Pixels	1,952(H)x1,236(V)
Min. Illumination	Color : 0.4 Lux@F1.2, 50IRE	Color : 0.9 Lux@F1.2, 50IRE
	BW : 0.01 Lux@F1.2, 50IRE	BW : 0.02 Lux@F1.2, 50IRE
Scanning Mode	Progressive Scan	
Wide Dynamic Range	True WDR(120dB)	
Day and Night Mode	True Day & Night(Auto, Day, Night)	
Noise Reduction	2DNR, 3DNR	2DNR
Digital Zoom	Yes(ROI)	
Exposure Control	Auto, Hold Current	
Back Light Compensation	Yes	
Image Effect	Flip, Mirror, Aisle	Flip, Mirror
Flicker Free Mode	50Hz, 60Hz	
Shutter Speed	Auto(1/10,000~1sec), Manual	Auto(1/20,000~1/30sec, 1/15, 1/8, 1/4 Slow Shutter), Manual
Motorized Lens Control	Yes	
VIDEO/AUDIO		
Compression	H.264(Baseline, Main, High Profile), MJPEG	
Bitrate Control	CVBR, VBR	CBR, VBR
Resolution	1920x1080, 1280x1024, 1280x720/960, 1024x768, 704x480/576, 640x360/480, 320x240	1920x1080, 1280x720/1024, 704x480/576, 640x480, 352x240/288, 320x240
Frame Rate	Max. 50/60fps@Full-HD	Max. 25/30fps@Full-HD
Streaming	50/60fps(Dual Stream : H.264x1, MJPEGx1), 25/30fps(Triple Stream : H.264x2, MJPEGx1), Advanced VCA only 25/30fps	25/30fps (Triple Stream : H.264x2, MJPEGx1)
Composite Out	Yes	
Audio Compression	G.711	
Audio Streaming	2 Way	
SYSTEM		
Video Contents Analysis	DIS, Defog, Face Detection, Tampering, Line Detector, Field Detector(Built-in VCA)	-
	DIS, Defog, Face Detection, Tampering, Line Detector, Field Detector, Absent (Advanced VCA)	
Motion Detection Area	16 Programmable Area(Include Area 8, Exclude Area 8)	
Privacy Mask Zone	8 Programmable Zone	
FTP Uploading	MJPEG	
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 Trigger	
Security	Multi User Authority, IP Filtering, HTTPS, SSL	
Network Time Sync	NTP Server, Synchronized Computer, Manual	
Software Reset	Restart, Reset, Factory Default	
Hardware Factory Reset	Yes	
Auto Recovery	Backup, Restore	
Remote Upgrade	Web Browsing(IE, Chrome, Safari, Firefox), SmartManager, NC-Titanium	
SD Recording Mode	Event, Continuous	
NETWORK		
Protocol	IPv4/IPv6, Manual, TCP/IP, UDP, HTTP, RTP, RTSP, NTP, DHCP, SMTP, DDNS, HTTPS, RTCP, FTP, Bonjour	
Client Software	Web, SmartManager, NC-Titanium, Tive HD	
Max. User Connection	Live : 10 Users, Playback : 3 Users	
API Support	Open API, Onvif Compliance	
Mobile Support	Tive HD(Android, iOS)	
EXTERNAL IN/OUT		
Video Composite Out	3.5mm Stereo Jack	BNC
Audio	1 Input, 1 Output(3.5mm Stereo Jack)	
Alarm	1 Input, 1 Output(Terminal Block)	
Ethernet	RJ-45(10/100Base-T)	
u-SD Card	SDHC(Max. 32GB)	
RS485	Yes	
OSD Remote Control	Wired Remote Controller(3.5mm Stereo Jack, Optional)	
ETC		
Operating Humidity	0~90%RH(Non-Condensing)	
Operating Temperature	-10~+45 °C	
Power Supply	PoE(IEEE802.3 af Compliance, Class0), 12VDC, 24VAC	
Power Consumption	90mA(4.5W)@PoE, 115mA(5.5W)@PoE(Advanced VCA)	80mA(4.0W)@PoE
	380mA(4.5W)@12VDC, 460mA(5.5W)@12VDC(Advanced VCA)	300mA(3.4W)@12VDC
	380mA(4.5W)@24VAC, 430mA(5.5W)@24VAC(Advanced VCA)	330mA(3.9W)@24VAC
Dimension	81.6(W)x68(H)x123(L)mm	
Net Weight	350/365g(NBT-2221)	335g