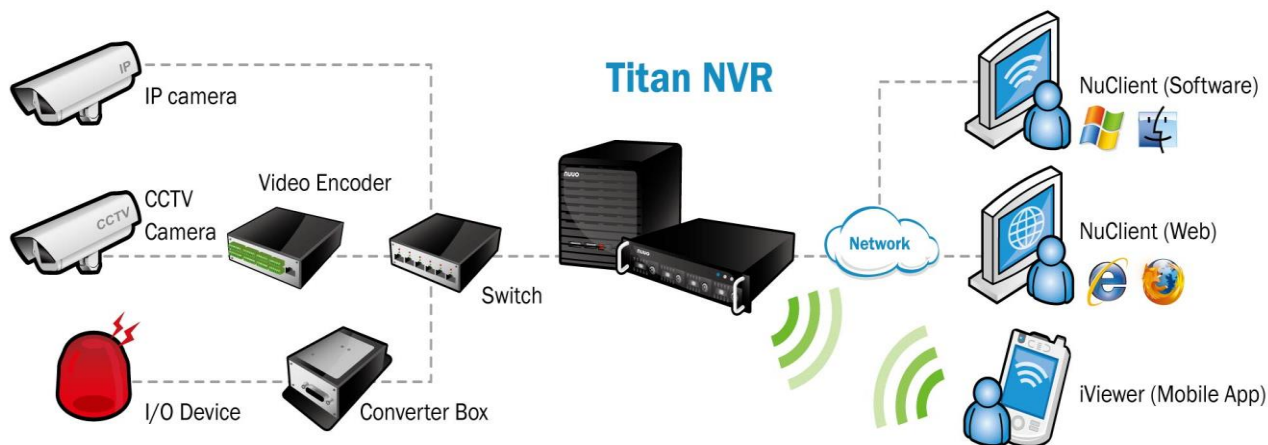


## Crystal Series



Features/Support	NT-4040	NT-4040R	NT-8040R	NT-8040RP
Hardware Style	Tower	1U	2U	2U
CPU	Intel Atom	Intel Atom	Intel Core i5	Intel Core i5
RAM	4G	4G	8G	8G
Video Output	VGA	VGA, DVI	VGA, DVI	VGA, DVI
Removable HDD Trays	4xSATA II	4xSATA II	8xSATA II	8xSATA II
Max internal storage*[1]	12TB	12TB	24TB	24TB
Redundant power	X	X	X	V
Server Operating System	Linux	Linux	Linux	Linux
Client Operating System	Windows XP (32-bit) / Win7 (32 and 64-bit)/ Win8 (32 and 64-bit)/ Mac OS X v10.6, 10.7, v10.8			
Number of Cameras per Recording Serve*[2]	64	64	64	64

# Crystal series - Titan Spec Sheet



V1.6.1 / 2013.08.22 / NT-4040, NT-4040R, NT-8040R, NT-8040RP

Maximum Number of Camera per Monitor	100 (10*10)	100 (10*10)	100 (10*10)	100 (10*10)
Maximum Number of Camera per NuClient	400	400	400	400
ONVIF Device Support	V	V	V	V
Video Compression	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG	H.264, MPEG4, MJPEG
Multiple Stream Profile	V	V	V	V
Automatically or simultaneously switch stream profile (New!)	V	V	V	V
Automatic Camera Model Detection	V	V	V	V
Supported Camera Brand (DP v2.6)	62	62	62	62
Supported Camera Model (DP v2.6)	1491	1491	1491	1491
Edge Motion	V	V	V	V
Intuitive E-map	V	V	V	V
I/O Control	V	V	V	V
Audio Recording (Listen)	V	V	V	V
PTZ control	V	V	V	V
Camera preset group (Patrol)	V	V	V	V
Support Panomorph PTZ (360°)	V	V	V	V
NUUO Fisheye Camera Dewarp (New!)	V	V	V	V
Image Fusion	V	V	V	V
Record on Schedule	V	V	V	V
Record on Event	V	V	V	V
Smart Search and Playback	V	V	V	V
Central User Privilege	V	V	V	V
Web Client	Internet Explorer 8 and 9, Firefox 4.0-9.0 (Windows version)			
Mobile Client	iPhone, iPad, Android			
Auto/ Manual Backup	V	V	V	V
Export	AVI, ASF, MOV			
Number of Spot-out for Live Viewing (Local display)*[3]	4CH	4CH	16CH	16CH
Dual LAN	V	V	V	V
RAID	0,1,5,10			
Watermark	V	V	V	V
Watchdog	V	V	V	V
Instant Liveview / Playback	V	V	V	V
<b>System</b>				
Configuration Wizards	V	V	V	V
Automatic Device Scanning	V	V	V	V
Automatic Device Model Detection	V	V	V	V
NTP	V	V	V	V

Log Tool	V	V	V	V
Transfer license	V	V	V	V
License Management	V	V	V	V
<b>PTZ</b>				
Point and click control (by camera)	V	V	V	V
Go to Preset Positions	V	V	V	V
Digital PTZ	V	V	V	V
Support Immervision PTZ (360°)	V	V	V	V
Support VIVOTEK Fisheye camera	V	V	V	V
Joystick support	V	V	V	V
<b>LiveView</b>				
Public/Private View	V	V	V	V
Max Content Per View	100	100	100	100
Hide Toolbar	V	V	V	V
View Tour	V	V	V	V
Snapshot	V	V	V	V
Instant Playback	V	V	V	V
<b>Recording &amp; Backup</b>				
Manual Record	V	V	V	V
Always Record	V	V	V	V
Schedule Record	V	V	V	V
Record on Event	V	V	V	V
Recording to Storage Area Networks(SAN: iSCSI) *[4]	V	V	V	V
Recording to DAS (eSATA)**	V	V	V	V
Backup to FTP	V	V	V	V
Pre-event and Post-event Recording	V	V	V	V
<b>Playback</b>				
Max View Items Per View	100	100	100	100
Smart Search	V	V	V	V
Event list in Recording	V	V	V	V
Event Associated Video	V	V	V	V
Graphical Timeline	V	V	V	V
Adjust Playback Speed	V	V	V	V
Motion / Event Search	V	V	V	V
Time/Date Search	V	V	V	V
<b>Event</b>				
Digital Input	V	V	V	V
Edge Motion Detection	V	V	V	V
Camera Signal Lost	V	V	V	V
Abnormal disk status	V	V	V	V
Backup unfinished	V	V	V	V
<b>Event Notification</b>				
Camera Recording	V	V	V	V
Trigger Digital Output	V	V	V	V
Send E-mail	V	V	V	V
On Screen Display	V	V	V	V

Popup Live Video	V	V	V	V
<b>User Privilege</b>				
Restrict Access to Live View	V	V	V	V
Restrict Access to Playback	V	V	V	V
Restrict Access to PTZ	V	V	V	V
Configuration Privilege	V	V	V	V
<b>Others</b>				
Provide SDK	V	V	V	V
Supported Language(21 languages)	Chinese (Simplified), Chinese (Traditional), Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Russian, Serbian, Slovenian, Spanish, Swedish, Thai, Turkish			

\*[1] The maximum volume size for each volume on is 16TB.

\*[2] Max recording throughput (250 Mbps): Approx. 64ch 5 Megapixel H.264 cameras at 10 fps when server is streaming out 16 channels of live video without playback

Optimal recording throughput (150 Mbps): Approx. 64ch 2 Megapixel H.264 cameras at 15 fps when server is streaming out 128 channels of live video and 16 channel playback

\*[3] Please refer to NUUO performance report for the supported channel number.

\*[4] External storage supported list ([Http://support.nuuo.com](http://support.nuuo.com))

Hardware Specifications				
Model	NT-4040	NT-4040R	NT-8040R	NT-8040RP
CPU	Intel Atom	Intel Atom	Intel Core i5	Intel Core i5
Number of Drives	4xSATA II	4xSATA II	8xSATA II	8xSATA II
Max Storage Per Drive	3TB	3TB	3TB	3TB
Max internal storage	12TB	12TB	24TB	24TB
RAID Level	RAID 0,1, 5, 10	RAID 0, 1, 5, 10	RAID 0,1, 5, 10	RAID 0,1, 5, 10
I/O Interface	6xUSB 2.0 (for mouse, UPS); 1xeSATA (for DAS)	6xUSB 2.0 (for mouse, UPS); 1xeSATA (for DAS)	2xUSB3.0, 2xUSB2.0, 1xeSATA (for DAS)	2xUSB3.0, 2xUSB2.0, 1xeSATA (for DAS)
LAN Transmission Speed	2x 10/100/1000 Mbps (RJ45x2)			
Voltage	100-240V	100-240V	100-240V	100-240V
Power Consumption	200W <sup>[1]</sup>	200W <sup>[2]</sup>	400W	400W (With redundant power)
Device Dimension (HxWxD)	210 x 200 x 320 mm	44.5 x 441 x 428.8 mm	88 x 482 x 583 mm	88 x 482 x 583 mm
Device Weight (Without Drive)	5.5 kg (12.13lbs)	6.235 kg (13.75lbs)	10.6 kg (23.37lbs)	10.6 kg (23.37lbs)
Temperature	Operating: 0°C-40°C			
Humidity	Operating: 5%-95%			

Remote Client System Minimum Requirement				
Model	NT-4040	NT-4040R	NT-8040R	NT-8040RP
OS	Windows XP (32-bit) / Win7 (32 and 64-bit)/ Win8 (32 and 64-bit)/ Mac OS X v10.6, 10.7, v10.8			
CPU	Intel Core 2 Duo, 2.6GHz			
RAM	1GB			
LAN Transmission Speed	10/100/1000 Mbps (RJ45)			
WebClient	Internet Explorer 8 and 9, Firefox 4.0-9.0 (Windows version)			
Mobile iViewer	iPhone, iPad, Android			

<sup>[1]</sup> 40 W is the maximum power consumption

<sup>[2]</sup> 90 W is the maximum power consumption

## Performance criteria:

**Camera Parameter:** H.264, high quality, and moderate traffic.

### NT-4040/ NT-4040R

Local Display					
Resolution	FPS (NTSC)	Remote Connections (Stream out)		Optimal Recording (ch)	Local display(ch)
		Playback	Live view		
VGA/D1	25	16 ch	30 ch	30	4
1.3M	8	16 ch	128 ch	64	4
2M	5	16 ch	128 ch	64	4
3M/5M/10M	Not Recommended				

Without Local Display				
Resolution	FPS (NTSC)	Remote Connections (Stream out)		Optimal Recording (ch)
		Playback	Live view	
VGA/D1	25	16 ch	128 ch	64
1.3M	25	16 ch	100 ch	50
1.3M	15	16 ch	128 ch	64
1.3M	15	32 ch	64 ch	32
2M	15	16 ch	128 ch	64
2M	10	16 ch	128 ch	64
2M	10	40 ch	80 ch	40
5M	10	16 ch	72 ch	36
5M	5	16 ch	80 ch	40
5M	5	32 ch	64 ch	32
5M	10	-	16 ch	64

### NT-8040R/ NT-8040RP

With Local Display					
Resolution	FPS (NTSC)	Remote Connections (Stream out)		Optimal Recording (ch)	Local display(ch)
		Playback	Live view		
VGA/D1	30	16 ch	128 ch	64	16ch, totally 64CH by tour
2M	30	16 ch	128 ch	64	4ch, totally 64CH by tour
2M	9	16 ch	128 ch	64	16ch, totally 64CH by tour
5M	10	16 ch	128 ch	64	4ch, totally 64CH by tour