Crystal v2.0.3 Release Note \(\int\) UUO®

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Release Version v2.0.3 (2013/11/4)

Modules:

Item		Version
FW	CT-4000/ CT-4000R	CT-4040_2.0.0_0074_1042.bin
	CT-8000R/ CT-8000RP	CT-8000R_2.0.0_0074_1044.bin
	Device Pack	v2.18
Application	Crystal NuClient	MAC: Crystal_2.0.3_AP_MacOSX.zip
		Windows: Crystal_2.0.3_AP_Windows.zip

Main Features:

[Server]

- 1. Centralized management to manage unlimited devices and events on unified NuClient.
- 2. Built-in Management Server, Recording Server and Metadata Server in one Crystal Titan
- 3. 3rd party integration for Metadata Server—POS via TCP client or C31A, Falco Access Control
- 4. Onvif ProfileS compatible
- 5. Record up to 64 megapixel cameras per recording server
- 6. High throughput (250Mbps) supporting up to 64x 5-Megapixel cameras (based on H.264, 10 fps, moderate traffic)
 - *Please refer to NUUO calculator: http://www.nuuo.com/calculator/
- 7. Volume group to distribute cameras to assigned volumes
- 8. Individual recycle condition (IRC) per device
- 9. Support RAID 0,1, 5, and 10
- 10. Camera multiple stream support
- 11. Stream up to 256ch live viewing connections per server to multiple clients simultaneously
- 12. Camera edge motion detection
- 13. Support continuous, scheduled, event based and I/O based recording
- 14. Synchronized audio and video recording
- 15. Dual gigabit Ethernet ports

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- 16. Centralized I/O and event respond systems
- 17. PTZ control priority
- 18. Powerful authorization for device permission and function privilege
- 19. Schedule-based user management
- 20. Scheduled Backup video to FTP location
- 21. Multiple codec support: H.264, MJPEG, MPEG4 and MxPEG
- 22. Watermark for video verification
- 23. Support NTP (Internet Time Server)
- 24. Support hardware watchdog (CT-8000R and CT-8000RP)and software watchdog
- 25. Support redundant power (CT-8000RP)
- 26. Support up to 256 NUUO I/O boxes per server (SCB-C24/C26/C28)
- 27. Support APC Uninterrupted Power Supply

[Client]

- 1. All in one NuClient for remote configuring and viewing
- 2. Unlimited channels of NuMatrix Video Wall (Ultimate)
- 3. Up to 400CH of video live view for each NuClient application *Refer to http://www.nuuo.com/calculator/
- 4. Centralized E-map
- 5. Centralized I/O Panel and Event Panel
- 6. NUUO Image Fusion Technology stitch up to 10 cameras together
- 7. Generic Fisheye Dewarp technology for all fisheye cameras
- 8. Support digital and optical PTZ
- 9. Support preset and patrol
- 10. Support multiple stream profile
- 11. Support automatically and simultaneously switch stream profile for View
- 12. Public and private view/ view profile for each user
- 13. Instant Playback on live view, e-map and event list
- 14. Save video clips into Original AVI, AVI ASF, and MOV.
- 15. Export video on AVI format with 3rd part data overlay
- 16. Intelligent Search in playback

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Support Language: (11 languages)

- Czech
- Chinese (Traditional)
- English
- Finnish
- Japanese
- Korean
- Polish
- Portuguese (Brazil)
- Russian
- Thai
- Turkish

Known Issue:

[Server]

- 1. [Web] When upgrading firmware, the network bandwidth should be more than 4 mbps.
- 2. [Web] When "modifying" HDD, it is possible that the modification time out so display modify fail, but the modification is success due to not enough network bandwidth.
- 3. [Management Server] Users shall export/ import whole system configuration into new system, or "associated camera" configuration can't be copy to the target server.
- 4. [Management Server]During hot swap HDD, some system event will not be triggered.
- 5. When assign one volume for recording, and then go to the Metadata Sever in the same Crystal Titan soon, it is possible that the volume can be assign as metadata volume, and record both of video and metadata stream in one volume and affect the throughput and recycle.
- 6. Automatically close action after n sec. function is not supported on "DO trigger" and "camera go to preset" action.
- 7. It is possible that after import configuration to the system, Metadata Server need to restart to connect.

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- 8. [Web][Firefox] The web port should be "80". (Firefox limitation)
- 9. [Camera] [Sony_SNC_DS60] Motion event won't be triggered
- 10. [Camera] [Sony_SNC_DS60] When trying to trigger camera DO2, the DO1 will be triggered, rather than DO 2.

[NuClient]

- 1. [Metadata] Need to wait for a while for metadata timeline display when there are a lot of channels of metadata.
- 2. Not support metadata export as .mov and original AVI file, so on Mac environment, it cannot export metadata stream because it only supports .mov export. (Format decode limitation)
- 3. After recycle, users shall re-login so that the timeline on playback will be clear.
- 4. When server throughput or CPU loading is high, or bandwidth is not enough, Playback will not smooth.
- 5. Not support cross resolution export. Please export video cross resolution into different videos.
- 6. Crystal not supports export H.264 SPS/PPS format as .mov file. Honeywell_HD3MDIH/ Sony-SNC_RX530 utilize this format, so on Mac OS, the video cannot be exported in H.264 because Mac only supports .mov export.
- 7. When the network connection is not stable, and commit multiple Views to server, it might fails and popup RPC error (-1) message.
- 8. If using joystick to control optical PTZ on popup video, the NuClietn might close sometimes.
- 9. On Backup Player, it not supports reverse playback in more than 2x speed and then reverse playback in 1x speed.
- 10. [Web Client] On web NuClient, after installing metadata plugin in the first time, users should press "F5" to refresh the interface to view the plugin.
- 11. [Mac] When "print" snapshot from NuClient's interface, NuClient might be possible to hang on Mac OS.
- 12. [Mac] When event triggering audio notification on NuClient, and manual stop the audio or change audio file, NuClient might be closed on Mac OS.
- 13. [Mac] When using joystick to control next or previous grid on playback, it might be possible to focus to other grid first, and then the assigned grid on Mac OS.
- 14. [Mac] It is suggested that the number of total connection per Mac client shall be under 500ch.
 - *If one camera utilizes multiple stream, each stream will count for one connection, so the total number of device connected shall be lower than 500ch.

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- 15. [Camera] When rename preset point for some camera, it might add another preset point, rather than modify the assigned one. (Camera preset point settings format limitation.)
- 16. [Camera] [Axis_P1354/ Axis M1054] In AAC audio codec, the voice can't be heard.
- 17. [Camera] [Santec] In H.264, AAC audio codec, the voice is not clear.
- 18. [Camera] [Sony_SNC-CH280/ Sony_SNC-EP52] When using G.711_64K, the voice might be lag or not clear.
- 19. [Camera] [LG_LW352] G.726 24K audio codec doesn't work.
- 20. [Camera] [LG_LW130W] Audio codec "G.711 PCMA" and "G.726 24K" is not clear.
- 21. [Camera] [Everfocus_EMN 2220/Messoa_NCR875PRO] Audio on playback is not smooth.
- 22. [Camera] [Zavio_P5116] The H.264 format is not smooth on Playback.
- 23. [Camera] [Fine_TCP-VM559] H.264 can't be export as .mov.
- 24. [Language] Some words on the interface will display in English, not the chosen language.
- 25. [Language] Installation wizard not support Thai.

[NuMatrix] (Ultimate only)

- 1. When camera disconnect and then automatically connect, users need to manually disconnect and then connect on NuMatrix tool bar to update the status. (Live view will operate normally.)
- 2. It's not recommend to use View tour on NuMatrix.

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Remote Client PC Requirement:

Remote PC Minimum Requirements				
Operating System	Windows XP (32-bit)/Windows 7 (32/64-bit)/Windows			
	8(32/64-bit)			
	Mac OSX (v10.6/10.7/10.8)			
CPU	Intel Core 2 Duo, 2.6GHz			
Display Card	nVidia or ATI with 1GB memory			
(OpenGL 2.0 and later)		0 and later)		
OS Supported	Windows XP 32 bit	Windows 7 (32/64 bit)		
		Windows 8(32/64-bit)		
		Mac OS X 10.6/10.7(64-bit)		
RAM	1GB	2GB		
LAN Transmission	10/100/1000 Mbps (RJ45)			
Speed				
Web Client	Internet Explorer 8, 9 and 10			
	Firefox 4.0-9.0 (Windows version)			

^{*}It is suggested to use 64 bit system for best system performance.