

Multipix

The different point of view
in Surveillance System



Multipix

Multipix Hardware

- What's the difference between Multipix and others?
 - H.264 / MPEG-4 part 10 video compression
 - Dual streaming technology
 - Multi-Protocol Supported
 - 802.3af PoE Embedded
 - Various Camera Hardware (Fix Cam, IR Cam, Dome Cam, Speed Dome, High Speed Dome)

Multipix Hardware

- Why I need H.264?
 - The difference between analog camera and IP camera is IP camera will need to use network / Internet for video transmission. Therefore, it's critical issue how to save network band rate. Most people in the market who are still selling MJPEG or even JPEG ip camera, MJPEG / JPEG will takes 10Mbps at 25fps for D1 resolution. But using Multipix MP264 H.264, only need 200K at 25fps for D1 resolution. So you can imagine that, H.264 will be able to reach the maximum to save band rate and this is essential for security projects. Since if band rate is gone, how can you implement the IP camera?

Multipix Hardware

- What's dual streaming?
 - Dual means 2 without doubt. Multipix H.264 IP camera is using dual streaming technology. this is very helpful for bigger installation. Imagine that, if there is 100 cameras project, customer need to view and record all of the cameras in D1 (704*576) resolution. Let's see how many PC need for decoding.
 - If there is no dual streaming, each PC even dual CPU PC can only be able to decoding and display up to 32 channels in maximum. Since decoding D1 video will need many CPU resources.
 - Now let's see how Multipix do:
 - Since Multipix has dual streaming technology, operators can view video at CIF (352x288) resolution, and can record the same video at D1 (704*576) resolution. To decode and display CIF video, a single CPU PC can do 64 video display at the same time. If for Dual CPU, display 128 channels is also no problem.
- Conclusion:
 - Using dual streaming technology, people can have both demands:
 - Get higher resolution video recorded
 - View more video at single PC

Multipix Hardware

- Why I need Multi-Protocol?
 - Most IP cameras only have TCP/IP for video /audio connection. With Multipix MP264, we have TCP/IP, UDP/IP, Multicast options. Multi-protocol is beneficial for different network environment:
 - TCP/IP -> local / global network
 - UDP -> wireless network
 - Multicast -> local network

Multipix Hardware

- Why I need PoE?
 - Power up camera will need power supply. With Multipix, no power supply in need. If the network switch has PoE function, Multipix camera will get the power from the switch directly. For Multipix IP Speed Dome camera, will need to use Multipix external PoE devices. With PoE, the installation will be much more simple, no power supply / no power cable. Also it's more convenience for maintenance.

Multipix Hardware

- Various Camera System Support
 - With Multipix, you have wide selection for camera. Fix camera, infrared camera, dome camera, speed dome camera, high speed dome camera all are H.264 based!

Multipix Software



- What's the unique features?
 - Support unlimited cameras
 - Support various brand's ip cameras
 - Featured Dual Display
 - operator friendly UI design
 - Programmable Preset Patrol
 - Powerful event programming
 - Unlimited trigger conditions
 - 16 channels video playback engine

Multipix Software

- Unlimited cameras, how?
 - in Multipix MPWEB video manager, operator can define lots of groups, each group can be appended lots of cameras. Now the maximum numbers of cameras of each group is 64, but will increase to 128 shortly. Viewing camera can be done by group. operator can define the video switch time frame between each group. The recording is in progress for all groups at the same time. Which means view up to 64 channels and recording for all channels at the same time.
 - Thanks to Multipix H264 dual streaming technology, all camera connected and recorded at the same time. The recording streaming will not take any CPU resources, only decoding and display video need CPU resources.
 - An general PC with Dual CPU and 2G RAM, 512M Display Card will be able to handle it.

Multipix Software

- Support various brand, how?
 - Multipix MPWEB Video Manager Software is the open architecture system. The MPWEB platform is able to integrate any brand name's ip camera. Now already integrated with
 - SONY from Japan
 - Vivotek from Taiwan
 - MIVision e-eye from Korea
 - Imagia ARM7/ARM9 from Taiwan
 - Of course with Multipix H.264
 - With any company's API, Multipix will be able to done the integration task.

Multipix Software

- Dual Display, what's that?
 - Dual display needs 2 monitor of course. With Multipix MPWEB video manager software, the “Video Wall” function will be able to put any video channel to another monitor as demand. Or MPWEB system will auto popup the triggered video channel to another display by motion / alarm conditions
 - with dual display, operator can still manage lots of cameras from the 1st display, but also can have clear and bigger view of triggered camera or interested camera from the 2nd display
 - Hotspot and Video Popup at the same time

Multipix Software

- operator friendly UI design, for what?
 - Software UI is very important issue for operator but also is a tough job for programmer. If the UI is good, there will need less training to operator and operator will have a easier way for daily operation. According to that, Multipix MPWEB Video Manager has many ways to help operator for quick learning. Simple but powerful interface, right click to access camera functions directly. 2D or 3D Joystick operation, and so on...

Multipix Software

- Preset Patrol, what's the difference?
 - All surveillance system have preset patrol, so what Multipix makes the different way? General system just call preset patrol from speed dome camera, and speed dome camera won't allows operator to change the time gap settings. So the operator may not be able to see some position details as they need. According to that, Multipix MPWEB Video Manager build programmable preset patrol feature, it allows operator to define the time for each preset, which means each preset will have different time gap not the same one. So the operator can monitor the position details as they need.

Multipix Software

- Event Programming / Trigger Condition, what's that?
 - General surveillance software can do view / recording / playback / trigger the same camera. Multipix MPWEB Pro do this in a different way. With Multipix MPEVENT, operator can define lots of event. From camera 1~N, from alarm 1~N and also can define other sensors such as temperature / humidity or event something else. All devices can be trigger condition or trigger results. Different cameras can trigger single output or multiple outputs, or single camera can trigger single output or multiple outputs. Also different alarm can trigger single video / output or multiple videos / outputs.
 - Video recording, go to preset, pop-up, Send SMS, email, dial phone is also no problem.
 - The global event programming is very useful for integration security management, integration means bring more benefit and more convenience to the final customers.

Multipix Software

- Digital Matrixing
 - With MPWEB Pro and MPMAP, Multipix can matrix any video channel as demand. Meanwhile, alarm video pop up is also possible with MPMAP module

Multipix Software

- 16 channels playback, what's different?
 - all surveillance software have playback system, it's very important to surveillance market. Multipix MPWEB video player does the same. In addition, MPWEB player is more user friendly to operator. It allows operator to view 16 video channels / files in the single display at the same time, search video files in locally or the entire network, drag and play video files directly, snap as many frames as they need, print the video frame, convert to AVI, back forward / fast forward, jump video frame, and so on...

For more concerns:

Please email to: support@multipixcctv.net

Or contact the nearest Multipix Dealer in your region

We appreciate for your time to read this presentation.

Presented by: Multipix Intelligent Systems Co., Ltd.

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