

Title:	How to Preview IP Camera via Multicast Protocol Version:			Date:	20/03/2019
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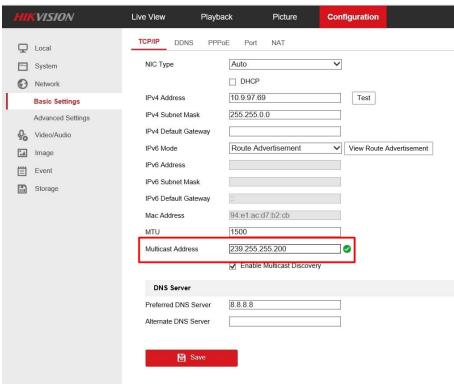
Preparation

- 1. IP camera and PC must be on the same network segment
- 2. Switchers support multicast protocol while most routers doesn't support it by default, so extra configuration is necessary.

How to Preview IP Camera via Multicast Protocol

1. Set multicast address

Go to [Configuration]-[Network]-[Basic Setting]-[TCP/IP] to set multicast address, range of multicast address is from 224.0.0.0 to 239.255.255.



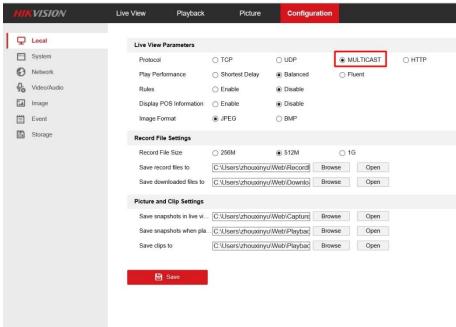
2. Set live view protocol





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Go to [Local]-[Live View Parameters] and select MULTICAST as live view protocol



3. Start Live View



In terms of devices interaction, multicast protocol is only used to get stream during live view; otherwise the same as TCP/UDP.

Capture the package on Wireshark. It indicates that IP camera has joined in the multicast group and stream to the multicast address.

PC IP: 10.9.97.42, IP camera IP: 10.9.97.69, Multicast IP: 239.255.255.200





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No.	Time	Source	Destination	Protocol	Length Info	
1867	18.33388	890 10. 9. 97. 69	10.9.97.42	TCP	74 rtsp > 60874 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK_PERM=	1 TSVa
1868	18.33408	870 10. 9. 97. 42	10.9.97.69	TCP	66 60874 > rtsp [ACK] Seq=1 Ack=1 Win=66560 Len=0 TSval=85431090 TSecr=175	9725
1869	18.33456	520 10. 9. 97. 42	10.9.97.69	RTSP	206 DESCRIBE rtsp://10.9.97.69:554/ISAPI/streaming/channels/101 RTSP/1.0	
1870	18.33583	340 10. 9. 97. 69	10.9.97.42	TCP	66 rtsp > 60874 [ACK] Seq=1 Ack=141 Win=30032 Len=0 Tsval=1759725 Tsecr=85	431091
1871	18.33788	870 10. 9. 97. 69	10.9.97.42	RTSP	250 Reply: RTSP/1.0 401 Unauthorized	
1872	18.33830	030 10. 9. 97. 42	10.9.97.69	RTSP	417 DESCRIBE rtsp://10.9.97.69:554/ISAPI/streaming/channels/101 RTSP/1.0	
1873	18.34331	190 10. 9. 97. 69	10.9.97.42	RTSP/SD	P 623 Reply: RTSP/1.0 200 OK	
1874	18.34631	140 10. 9. 97. 42	10.9.97.69	RTSP	429 SETUP rtsp://10.9.97.69:554/ISAPI/streaming/channels/101/trackID=1 RTSP	/1.0
1875	18.36099	920 10. 9. 97. 69	10.9.97.42	RTSP	269 Reply: RTSP/1.0 200 OK	
1876	18.37181	190 10. 9. 97. 42	10.9.97.69	RTSP	452 PLAY rtsp://10.9.97.69:554/ISAPI/streaming/channels/101 RTSP/1.0	
1877	18.37304	420 10. 9. 97. 69	224.0.0.22	IGMPv3	60 Membership Report / Join group 239.255.255.200 for any sources	
1878	18.40281	130 10. 9. 97. 69	10.9.97.42	TCP	66 rtsp > 60874 [ACK] Seq=945 Ack=1241 Win=33248 Len=0 TSval=1759732 TSecr	-85431
1879	18.49450	020 10. 9. 97. 69	10.9.97.42	RTSP	194 Reply: RTSP/1.0 200 OK	
1880	18.50442	220 10. 9. 97. 69	239.255.255.200	UDP	1442 Source port: 8860 Destination port: 8860	
1881	18.5445	340 10. 9. 97. 42	10.9.97.69	TCP	66 60874 > rtsp [ACK] Seq=1241 Ack=1073 Win=65536 Len=0 TSVal=85431301 TSe	cr=175
1882	18.55906	590 10. 9. 97. 69	239.255.255.200	UDP	146 Source port: 8860 Destination port: 8860	
1883	18.56004	410 10. 9. 97. 69	239.255.255.200	UDP	106 Source port: 8860 Destination port: 8860	
1884	18.56004	420 10. 9. 97. 69	239.255.255.200	UDP	86 Source port: 8860 Destination port: 8860	
1885	18.56094	420 10. 9. 97. 69	239.255.255.200	UDP	78 Source port: 8860 Destination port: 8860	
1886	18.56094	430 10. 9. 97. 69	239.255.255.200	UDP	90 Source port: 8860 Destination port: 8860	
1887	18.56094	450 10. 9. 97. 69	239.255.255.200	UDP	62 Source port: 8860 Destination port: 8860	
1888	18.56094	450 10. 9. 97. 69	239.255.255.200	UDP	66 Source port: 8860 Destination port: 8860	
1889	18.56204	430 10. 9. 97. 69	239.255.255.200	UDP	1482 Source port: 8860 Destination port: 8860	
1890	18.56204	460 10. 9. 97. 69	239.255.255.200	UDP	1482 Source port: 8860 Destination port: 8860	
1891	18.56204	480 10. 9. 97. 69	239.255.255.200	UDP	1482 Source port: 8860 Destination port: 8860	
+007			220 255 255 200	LINE	ting course come none nonelectual come none	





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