

Title:	How to Preview IP Camera via Multicast Protocol	Version:	v1.1	Date:	20/03/2019
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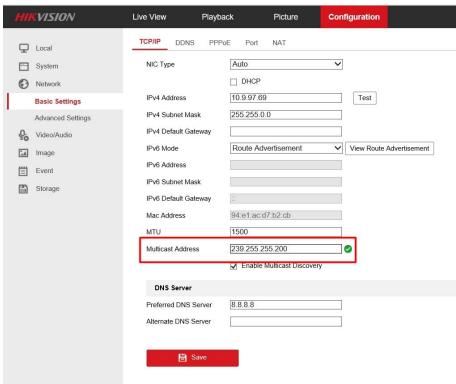
Preparation

- 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.

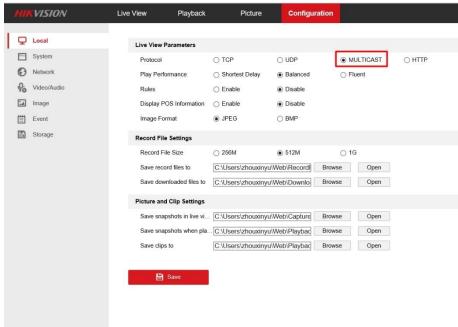


2. Set live view protocol



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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	
186	7 18.3338	890 10. 9. 97. 69	10.9.97.42	TCP		rtsp > 60874 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SACK_PERM=1 TSV
186	8 18.3340	870 10. 9. 97. 42	10.9.97.69	TCP		5 60874 > rtsp [ACK] Seq=1 Ack=1 Win=66560 Len=0 TSval=85431090 TSecr=1759725
186	9 18.3345	620 10. 9. 97. 42	10.9.97.69	RTSP	206	DESCRIBE rtsp://10.9.97.69:554/ISAPI/streaming/channels/101 RTSP/1.0
187	0 18.3358	340 10. 9. 97. 69	10.9.97.42	TCP	66	srtsp > 60874 [ACK] Seq=1 Ack=141 Win=30032 Len=0 TSval=1759725 TSecr=8543109:
187	1 18.3378	870 10. 9. 97. 69	10.9.97.42	RTSP	250	Reply: RTSP/1.0 401 Unauthorized
187	2 18.3383	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
187	3 18.3433	190 10. 9. 97. 69	10.9.97.42	RTSP/SD	P 623	Reply: RTSP/1.0 200 OK
187	4 18.3463	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
187	5 18.3609	920 10. 9. 97. 69	10.9.97.42	RTSP	269	Reply: RTSP/1.0 200 OK
187	6 18.3718	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
187	7 18.3730	420 10. 9. 97. 69	224.0.0.22	IGMPv3	60	Membership Report / Join group 239.255.255.200 for any sources
187	8 18.4028	130 10. 9. 97. 69	10.9.97.42	TCP	66	5 rtsp > 60874 [ACK] Seq=945 Ack=1241 Win=33248 Len=0 TSval=1759732 TSecr=8543:
187	9 18.4945	020 10. 9. 97. 69	10.9.97.42	RTSP	194	Reply: RTSP/1.0 200 OK
188	0 18.5044	220 10. 9. 97. 69	239.255.255.200	UDP	1442	2 Source port: 8860 Destination port: 8860
188	1 18. 5445	340 10. 9. 97. 42	10.9.97.69	TCP	66	5 60874 > rtsp [ACK] Seq=1241 Ack=1073 Win=65536 Len=0 TSval=85431301 TSecr=17
188	2 18.5590	690 10. 9. 97. 69	239.255.255.200	UDP	146	Source port: 8860 Destination port: 8860
188	3 18.5600	410 10. 9. 97. 69	239. 255. 255. 200	UDP	106	Source port: 8860 Destination port: 8860
188	4 18.5600	420 10. 9. 97. 69	239.255.255.200	UDP	86	Source port: 8860 Destination port: 8860
188	5 18.5609	420 10. 9. 97. 69	239.255.255.200	UDP	78	Source port: 8860 Destination port: 8860
188	6 18.5609	430 10. 9. 97. 69	239.255.255.200	UDP	90	Source port: 8860 Destination port: 8860
188	7 18.5609	450 10. 9. 97. 69	239.255.255.200	UDP	62	Source port: 8860 Destination port: 8860
188	8 18.5609	450 10. 9. 97. 69	239.255.255.200	UDP	66	S Source port: 8860 Destination port: 8860
188	9 18.5620	430 10. 9. 97. 69	239, 255, 255, 200	UDP	1482	Source port: 8860 Destination port: 8860
189	0 18.5620	460 10. 9. 97. 69	239.255.255.200	UDP	1482	2 Source port: 8860 Destination port: 8860
189	1 18. 5620	480 10. 9. 97. 69	239.255.255.200	UDP	1482	Source port: 8860 Destination port: 8860
***	3 40 FC36	FAR 10 0 07 FR	220 255 255 200	LINE	4407	·



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