

Change HDMI mode via API:

Standard the communication between the TV or monitor and the NetcamViewer Monitor takes place via the HDMI cable.

If the automatic settings are not correct it is possible to change them via the API HDMI mode.

API:

`http://[IPADRES]/commands/set-hdmi/[GROUP]-[MODUS]`

The default state of the NetcamViewer Monitor is set to group 0: auto detect. The groups (if group 1 or 2 is specified) must be used together with the appropriate mode.

The most common group is 1 (CEA).

The most common resolutions are 1080p and 720p, both on 60Hz.

This results in the following common API commands:

`http://[IPADRESS]/commands/set-hdmi/1-16 (1080p)`

`http://[IPADRESS]/commands/set-hdmi/1-4 (for 720p)`

Afterwards the NetcamViewer Monitor will restart.

A complete list of groups and modes you will find at the end of this article.

Other HDMI API commands:

Information about the connected monitor or TV can be retrieved with the command below (if there is no multi view displayed)

`http://[IPADRES]/commands/get-display-properties`

Use the modes 'preferred' or 'native'.

Reset settings to automatically hdmi:

`http://[IPADRES]/commands/reset-display-settings`

Tip: PAL countries were historically 50Hz and NTSC countries 60Hz. However all newer HDMI tvs standard will be 60Hz.

HDMI groups and modi:

hdmi_group	
0	Auto-detect from EDID
1	CEA
2	DMT

Modi Group1 (CEA)

hdmi_mode	resolution	frequency	notes
1	VGA (640x480)		
2	480p	60Hz	
3	480p	60Hz	16:9 aspect ratio
4	720p	60Hz	
5	1080i	60Hz	
6	480i	60Hz	
7	480i	60Hz	16:9 aspect ratio
8	240p	60Hz	
9	240p	60Hz	16:9 aspect ratio
10	480i	60Hz	pixel quadrupling
11	480i	60Hz	pixel quadrupling, 16:9 aspect ratio
12	240p	60Hz	pixel quadrupling
13	240p	60Hz	pixel quadrupling, 16:9 aspect ratio
14	480p	60Hz	pixel doubling
15	480p	60Hz	pixel doubling, 16:9 aspect ratio
16	1080p	60Hz	
17	576p	50Hz	
18	576p	50Hz	16:9 aspect ratio
19	720p	50Hz	
20	1080i	50Hz	
21	576i	50Hz	
22	576i	50Hz	16:9 aspect ratio
23	288p	50Hz	
24	288p	50Hz	16:9 aspect ratio
25	576i	50Hz	pixel quadrupling
26	576i	50Hz	pixel quadrupling, 16:9 aspect ratio
27	288p	50Hz	pixel quadrupling
28	288p	50Hz	pixel quadrupling, 16:9 aspect ratio
29	576p	50Hz	pixel doubling
30	576p	50Hz	pixel doubling, 16:9 aspect ratio
31	1080p	50Hz	
32	1080p	24Hz	
33	1080p	25Hz	
34	1080p	30Hz	
35	480p	60Hz	pixel quadrupling
36	480p	60Hz	pixel quadrupling, 16:9 aspect ratio
37	576p	50Hz	pixel quadrupling
38	576p	50Hz	pixel quadrupling, 16:9 aspect ratio
39	1080i	50Hz	reduced blanking
40	1080i	100Hz	
41	720p	100Hz	
42	576p	100Hz	
43	576p	100Hz	16:9 aspect ratio
44	576i	100Hz	
45	576i	100Hz	16:9 aspect ratio
46	1080i	120Hz	
47	720p	120Hz	

hdmi_mode	resolution	frequency	notes
48	480p	120Hz	
49	480p	120Hz	16:9 aspect ratio
50	480i	120Hz	
51	480i	120Hz	16:9 aspect ratio
52	576p	200Hz	
53	576p	200Hz	16:9 aspect ratio
54	576i	200Hz	
55	576i	200Hz	16:9 aspect ratio
56	480p	240Hz	
57	480p	240Hz	16:9 aspect ratio
58	480i	240Hz	
59	480i	240Hz	16:9 aspect ratio

Modi Group 2 (DMT)

hdmi_mode	resolution	frequency	notes
1	640x350	85Hz	
2	640x400	85Hz	
3	720x400	85Hz	
4	640x480	60Hz	
5	640x480	72Hz	
6	640x480	75Hz	
7	640x480	85Hz	
8	800x600	56Hz	
9	800x600	60Hz	
10	800x600	72Hz	
11	800x600	75Hz	
12	800x600	85Hz	
13	800x600	120Hz	
14	848x480	60Hz	
15	1024x768	43Hz	incompatible with the Raspberry Pi
16	1024x768	60Hz	
17	1024x768	70Hz	
18	1024x768	75Hz	
19	1024x768	85Hz	
20	1024x768	120Hz	
21	1152x864	75Hz	
22	1280x768		reduced blanking
23	1280x768	60Hz	
24	1280x768	75Hz	
25	1280x768	85Hz	
26	1280x768	120Hz	reduced blanking
27	1280x800		reduced blanking
28	1280x800	60Hz	
29	1280x800	75Hz	
30	1280x800	85Hz	
31	1280x800	120Hz	reduced blanking
32	1280x960	60Hz	
33	1280x960	85Hz	

hdmi_mode	resolution	frequency	notes
34	1280x960	120Hz	reduced blanking
35	1280x1024	60Hz	
36	1280x1024	75Hz	
37	1280x1024	85Hz	
38	1280x1024	120Hz	reduced blanking
39	1360x768	60Hz	
40	1360x768	120Hz	reduced blanking
41	1400x1050		reduced blanking
42	1400x1050	60Hz	
43	1400x1050	75Hz	
44	1400x1050	85Hz	
45	1400x1050	120Hz	reduced blanking
46	1440x900		reduced blanking
47	1440x900	60Hz	
48	1440x900	75Hz	
49	1440x900	85Hz	
50	1440x900	120Hz	reduced blanking
51	1600x1200	60Hz	
52	1600x1200	65Hz	
53	1600x1200	70Hz	
54	1600x1200	75Hz	
55	1600x1200	85Hz	
56	1600x1200	120Hz	reduced blanking
57	1680x1050		reduced blanking
58	1680x1050	60Hz	
59	1680x1050	75Hz	
60	1680x1050	85Hz	
61	1680x1050	120Hz	reduced blanking
62	1792x1344	60Hz	
63	1792x1344	75Hz	
64	1792x1344	120Hz	reduced blanking
65	1856x1392	60Hz	
66	1856x1392	75Hz	
67	1856x1392	120Hz	reduced blanking
68	1920x1200		reduced blanking
69	1920x1200	60Hz	
70	1920x1200	75Hz	
71	1920x1200	85Hz	
72	1920x1200	120Hz	reduced blanking
73	1920x1440	60Hz	
74	1920x1440	75Hz	
75	1920x1440	120Hz	reduced blanking
76	2560x1600		reduced blanking
77	2560x1600	60Hz	
78	2560x1600	75Hz	
79	2560x1600	85Hz	
80	2560x1600	120Hz	reduced blanking
81	1366x768	60Hz	
82	1920x1080	60Hz	1080p

hdmi_mode	resolution	frequency	notes
83	1600x900		reduced blanking
84	2048x1152		reduced blanking
85	1280x720	60Hz	720p
86	1366x768		reduced blanking