

# Verification of camera performance with Google Chrome, Firefox, and Microsoft Edge

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## Applicable models

WV-S1136, WV-S2136, WV-S2136L, WV-S2236L, **WV-S1536L**, **WV-S1536LN**, **WV-S2536L**, **WV-S2536LN**

Note: Those cameras do not support Internet Explorer

## Tested PC:

Windows 10 1809, intel Core i7-8700 / Windows 10 1803, intel Core i7-6700

**Results** Yes : Verified to work , Yes\* : Restriction(s) applied, N/A : Not available

Test item	Tested browser	Google Chrome		Firefox		Microsoft Edge	
	Browser version	90.0.4430.93		88.0		90.0.818.46	
	Connection method	HTTP	HTTPS	HTTP	HTTPS	HTTP	HTTPS
Live image	Camera access	Yes	Yes* <sup>1</sup>	Yes	Yes* <sup>2</sup>	Yes	Yes* <sup>1</sup>
	Live view in MJPEG	Yes* <sup>9</sup>	Yes* <sup>9</sup>	Yes* <sup>9</sup>	Yes* <sup>9</sup>	Yes* <sup>9</sup>	Yes* <sup>9</sup>
	Live view in H.264	Yes	Yes	Yes	Yes	Yes	Yes
	Live view in H.265	Yes* <sup>3</sup>	Yes* <sup>3</sup>	Yes* <sup>4</sup>	Yes* <sup>3</sup>	Yes* <sup>3</sup>	Yes* <sup>3</sup>
	Mic input	Yes* <sup>5</sup>	Yes* <sup>5</sup>	Yes* <sup>5</sup>	Yes* <sup>5</sup>	Yes* <sup>5</sup>	Yes* <sup>5</sup>
	Audio output	N/A	Yes	N/A	Yes	N/A	Yes
	Real time update of audio output button	N/A	N/A	N/A	N/A	N/A	N/A
	Real time update of status indicators (AUX, SD recording)	Yes	Yes	Yes	Yes	Yes	Yes
	Real time update of alarm occurrence indication button	Yes	Yes	Yes	Yes	Yes	Yes
	Snapshot and save	Yes* <sup>7</sup>	Yes* <sup>6*7</sup>	Yes* <sup>7</sup>	Yes* <sup>6*7</sup>	Yes* <sup>7</sup>	Yes* <sup>6</sup>
	Image download from an SD memory card	Yes	Yes	Yes	Yes	Yes	Yes
	Playback screen of SD memory card images	Yes* <sup>10*11</sup>	Yes* <sup>10*11</sup>	Yes* <sup>10*12</sup>	Yes* <sup>10*11</sup>	Yes* <sup>10*11</sup>	Yes* <sup>10*11</sup>
	Extension software (AI-VMD)	Yes* <sup>8</sup>	Yes* <sup>8</sup>	Yes* <sup>8</sup>	Yes* <sup>8</sup>	Yes* <sup>8</sup>	Yes* <sup>8</sup>
	Extension software (AI Privacy Guard)	Yes	Yes	Yes	Yes	Yes	Yes
Setup menu	Mask area setting	Yes	Yes	Yes	Yes	Yes	Yes
	Privacy zone setting (8 areas)	Yes	Yes	Yes	Yes	Yes	Yes
	VIQS area setting	Yes* <sup>3</sup>	Yes* <sup>3</sup>	Yes* <sup>4</sup>	Yes* <sup>3</sup>	Yes* <sup>3</sup>	Yes* <sup>3</sup>
	Zoom ratio designation	Yes	Yes	Yes	Yes	Yes	Yes
	VMD area setting (4 areas)	Yes	Yes	Yes	Yes	Yes	Yes
	Extension software (AI-VMD)	Yes* <sup>3</sup>	Yes* <sup>3</sup>	Yes* <sup>4</sup>	Yes* <sup>3</sup>	Yes* <sup>3</sup>	Yes* <sup>3</sup>
	Extension software (AI Privacy Guard)	Yes	Yes	Yes	Yes	Yes	Yes

**General notes on use:**

- Full screen image may not be displayed due to an access limit
- Multicast transmission is not available
- The stream whose data encryption is set to “On” cannot be displayed or played back

**Restrictions\*1-12:**

\*1 Camera browser appears properly when accessed using the host name in the pre-installed certificate installed on the PC

\*2 Camera browser appears properly when accessed using the host name in the pre-installed certificate installed on the browser

\*3 The image is displayed at the refresh interval when [Max bit rate (per client)] exceeds the following value in each combination

	Transmission priority	Image capture size	Max bit rate (per client)
1	Frame rate	1920x1080(or smaller)	<b>4096kbps</b>
		2048x1536	<b>3072kbps</b>
3	VBR	1920x1080(or smaller)	<b>6144kbps</b>
		2048x1536	<b>4096kbps</b>

\*4 The image is displayed at the refresh interval when [Max bit rate (per client)] exceeds the following value in each combination

	Transmission priority	Image capture size	Max bit rate (per client)
1	Frame rate	1920x1080	<b>1536kbps</b>
		1280x720	<b>2048kbps</b>
3	VBR	1920x1080	<b>1536kbps</b>
		1280x720	<b>2048kbps</b>

**Restrictions\*1-12:**

- \*5 Available only when “AAC-LC” is selected for [Audio input encoding format]
- \*6 Save is available only when accessing a camera using the host name in the certificate installed on
  - the PC in case of Google Chrome / Microsoft Edge
  - the browser in case of Firefox
- \*7 Depending on the PC settings, the file format of the saved snap shot may be other than “.jpeg” (e.g. “.jfif”)
- \*8 AI-VMD detection frame is not displayed on the JPEG live image (displayed only on H.264 and H.265 live images)
- \*9 Mic input and Audio output are not supported
- \*10 When the screen is closed with “x” button and soon reopened, a message "The other user is currently operating. Please try again later." may appear even when no one else is in operation

\*11 The image is displayed at the refresh interval selected during recording when [Max bit rate (per client)] exceeds the following value in each combination

	Image capture size	Max bit rate (per client)
1	1920x1080(or smaller)	4096kbps
2	2048x1536(or smaller)	3072kbps

\*12 The image is displayed at the refresh interval selected during recording when [Max bit rate (per client)] exceeds the following value in each combination

	Image capture size	Max bit rate (per client)
1	1920x1080(or smaller)	1536kbps
2	1280x720(or smaller)	2048kbps

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