



# Information on the number of access users for i-PRO Extreme series cameras

Ver. 1.00

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## 1. Concurrent access limit

## 2. Verification conditions / Notes

### 3. Number of concurrent access users

#### 1). WV-Sxxxx / WV-Xxxxx series

(except WV-S8xxx and WV-X8xxx)

#### 2). WV-Uxxxx series camera

#### 3). WV-S8xxx

#### 4). WV-X8xxx

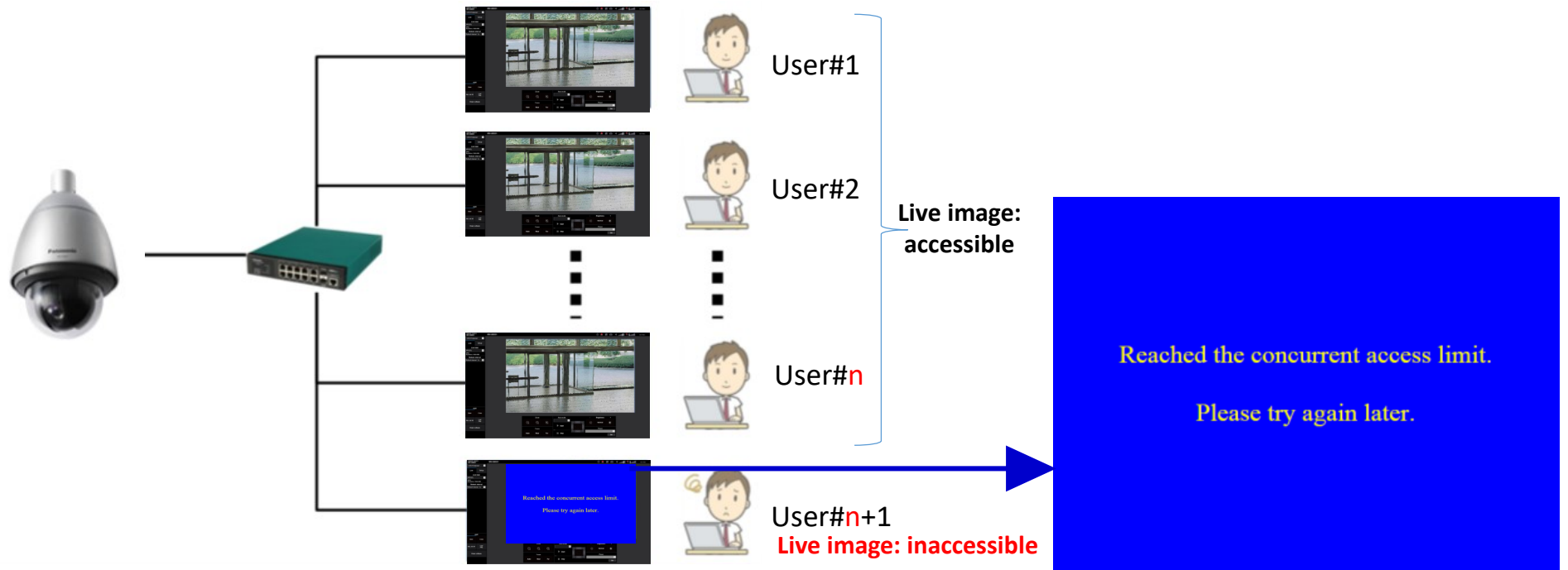
\*“xxx(x)” stands for 4-digit model number

\*Alphabet after the 4-digit number has no effect on the number of access users. (e.g. WV-X8570N)

# 1. Concurrent access limit

i-PRO Extreme series camera has a limit on the number of concurrent access users. When it reaches the limit, a user cannot view the live image via a web browser, instead the camera displays “Reached the concurrent access limit” as described below. To avoid possible problems in camera operation, this document provides the information on the number of concurrent access users based on our verification result.

When “ $n$ ” is the maximum number of access users, User# $n+1$  or later cannot view the live image.



### [Verification condition]

This document provides the number of users that can access a camera in H.265 stream under the following condition:

- Audio: Off
- Internet mode: Off
- SD memory card recording format: Off
- Bandwidth control (bit rate): Default value for each camera
- Transmission type: Unicast

### [Notes]

- This document only considers the number of access users and does not guarantee that the frame rate will be maintained.
- The maximum number of access users is as follows.
  - WV-Sxxxx / WV-Xxxxx / WV-Uxxx series cameras : 14 Users
  - WV-S8xxx , WV-X8xxx : 24 Users

### [Notes]

- When the “Max bit rate(per client)” setting exceeds the value set in “Bandwidth control (bit rate)”, the message "Reached the concurrent access limit" will be displayed.

“Max bit rate(per client)” setting:  
[Setup] menu->[Image/Audio] button-> [Image] tab

Stream(1)	
Stream transmission	<input type="radio"/> On <input type="radio"/> Off
Stream encoding format	<input type="radio"/> H.265 <input checked="" type="radio"/> H.264
Internet mode (over HTTP)	<input checked="" type="radio"/> On <input type="radio"/> Off
Image capture size	1920x1080
Transmission priority	Frame rate
Frame rate*	30fps *
Max bit rate (per client) *	3072kbps *
Image quality	Normal
Smart Coding	GOP control
	Smart Facial Coding
Refresh interval	1s
Transmission type	Unicast port (AUTO)
Unicast port1(Image)	32004 (1024-50000)
Unicast port2(Audio)	33004 (1024-50000)
Multicast address	238.192.0.20
Multicast port	37004 (1024-50000)
Multicast TTL/HOPLimit	16 (1-254)

\*Sample screen of WV-X6531N

“Bandwidth control (bit rate)” setting:  
[Setup] menu->[Network] button-> [Network] tab

Common	
HTTP port	80 (1-65535)
Line speed	Auto
Max RTP packet size	<input type="radio"/> Unlimited(1500byte) <input checked="" type="radio"/> Limited(1280byte)
HTTP max segment size(MSS)	Unlimited(1460byte)
Bandwidth control(bit rate)	Unlimited
Easy IP Setup accommodate period	<input type="radio"/> 20min <input checked="" type="radio"/> Unlimited
FTP access to camera	<input checked="" type="radio"/> Allow <input type="radio"/> Forbid
Set	

\*Sample screen of WV-X6531N

### [Notes]

- When the priority stream is set in WV-S8xxx and WV-X8xxx, one destination IP address is counted as 4 users, and two destination IP addresses are counted as 8 users, regardless of access status.
- Performing SD card recording is counted as one user.  
Even without recording, selecting a mode other than “Off” for the recording format will be counted as one user.
- When “HTTPS” is selected for [Connection], the maximum bandwidth (bit rate) is limited to:
  - 16 Mbps in case of WV-Sxxxx / WV-Xxxxx / WV-Uxxxx series
  - 64 Mbps in case of WV-S8xxx / WV-X8xxx

### IMPORTANT

- The number of access users varies depending on the target model and parameter settings.
- If the number of access users exceeds the limit, the following symptoms will occur on the NX series recorder and WV-ASM300.
  - NX series recorder may not display the live video when switched to sequence display.
  - WV-ASM300 may not display the live video when switched to sequence display.  
("Maximum concurrent access" is displayed in the network failure log)

### 3. Number of concurrent access users

#### 1). WV-Sxxxx / WV-Xxxxx series (except WV-S8xxx and WV-X8xxx)

The maximum number of access users : 14

Max bit rate (per client)	Frame rate			VBR	Constant bit rate	Best effort
	Low (Motion priority)	Normal	Fine (Image quality priority)			
	64 128/256/384/512/ 768/1024/1536 kbps	14	14			
2048 kbps	12	14	14	14	14	14
3072 kbps	8	10	14	14	14	14
4096 kbps	6	8	11	12	12	14
6144 kbps	4	5	7	8	8	14
8192 kbps	3	4	5	6	6	14
10240 kbps	2	3	4	4	4	14
12288 kbps	2	2	3	4	4	14
14336 kbps	1	2	3	3	3	14
16384 kbps	1	2	2	3	3	14
20480 kbps	1	1	2	2	2	14
24576 kbps	1	1	1	2	2	14

\* Range in the red box: For HD or Full HD models, “Maximum bit rate (per client)” cannot be selected in image capture mode 16: 9 (30fps mode).

\* Range in the blue box: For HD or Full HD models, “Maximum bit rate (per client)” cannot be selected regardless of the image capture mode.

### 3. Number of concurrent access users

#### 2). WV-Uxxxx series camera

The maximum number of access users : 14

Max bit rate (per client)	Frame rate			VBR	Constant bit rate	Best effort
	Low (Motion priority)	Normal	Fine (Image quality priority)			
	64/128/256/384/512/ 768 kbps	14	14			
1024 kbps	12	14	14	14	14	14
1536 kbps	8	11	14	14	14	14
2048 kbps	6	8	11	12	12	14
3072 kbps	4	5	7	8	8	14
4096 kbps	3	4	5	6	6	14
6144 kbps	2	2	3	4	4	14
8192 kbps	1	2	2	3	3	14
10240 kbps	1	1	2	2	2	14
12288 kbps	1	1	1	2	2	14
14336 kbps	-	-	-	1	-	14
16384 kbps	-	-	-	1	-	14
20480 kbps	-	-	-	1	-	14
24576 kbps	-	-	-	1	-	14

\* Range in the blue box : For HD models, “Maximum bit rate (per client)” cannot be selected.



### 3. Number of concurrent access users

#### 3). WV-S8xxx

The maximum number of access users : 24

Max bit rate (per client)						
	Frame rate			VBR	Constant bit rate	Best effort
	Low (Motion priority)	Normal	Fine (Image quality priority)			
64/128/256/384/ 512/768 kbps	24	24	24	24	24	24
1024 kbps	24	24	24	24	24	24
1536 kbps	16	22	24	24	24	24
2048 kbps	12	16	22	24	24	24
3072 kbps	8	11	15	16	16	24
4096 kbps	6	8	11	12	12	24
6144 kbps	4	5	7	8	8	24
8192 kbps	3	4	5	6	6	24
10240 kbps	2	3	4	4	4	24
12288 kbps	2	2	3	4	4	24
14336 kbps	-	-	-	3	-	-
16384 kbps	-	-	-	3	-	-
20480 kbps	-	-	-	2	-	-
24576 kbps	-	-	-	2	-	-

### 3. Number of concurrent access users

#### 4). WV-X8xxx

The maximum number of access users : 24

Max bit rate (per client)						
	Frame rate			VBR	Constant bit rate	Best effort
	Low (Motion priority)	Normal	Fine (Image quality priority)			
64/128/256/384/ 512/768 kbps	24	24	24	24	24	24
1024 kbps	24	24	24	24	24	24
1536 kbps	24	24	24	24	24	24
2048 kbps	19	24	24	24	24	24
3072 kbps	13	17	24	24	24	24
4096 kbps	9	13	18	19	19	24
6144 kbps	6	8	12	13	13	24
8192 kbps	4	6	9	9	9	24
10240 kbps	3	5	7	7	7	24
12288 kbps	3	4	6	6	6	24
14336 kbps	2	3	5	5	5	19
16384 kbps	2	3	4	4	4	19
20480 kbps	1	2	3	3	3	19
24576 kbps	1	2	3	3	3	19

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