1. Switching the camera group and operating ND filters

■ Registration of functions in the USER buttons

A camera group switching function and an ND filter switching function have been added to the functions that can be assigned to the USER buttons.

Menu item	Details of operation performed
CAM_GROUP SEL	Pressing the USER button assigned with GROUP CAM SEL allows you to switch the camera group using the PRESET MEMORY/MENU buttons (1 to 10) and PAGE button.
ND_FILTER	Pressing the USER button assigned with ND_FILTER allows you to switch the ND filter using the PRESET MEMORY/MENU buttons (1 to 4).

<Notes>
● When a USER button assigned with one of the functions above is pressed to turn the function on (indicator is lit), you cannot recall the corresponding preset memory or menu. To recall a preset memory or menu, first press the corresponding USER button again to turn the function off (indicator is off).
● Pressing a USER button while the MENU button is on (indicator is lit) will turn off the MENU button (indicator is off).
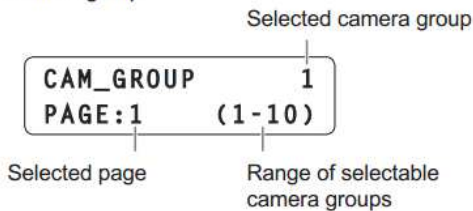
■ Switching the camera group

1 Assign CAM_GROUP SEL to a USER button.
Refer to "Setting the USER buttons" in the "Operating Instructions: <Operations and Settings>" for details about assigning functions to the USER buttons.

2 Press the USER button assigned with CAM_GROUP SEL.
The USER button turns on, allowing you to select the camera group.

Selected camera group

```
CAM_GROUP      1
PAGE:1     (1-10)
```

Selected page   Range of selectable
                       camera groups

● Page 1 is always displayed when the USER button is pressed.

3 Switch the camera group using the PRESET MEMORY/MENU buttons (1 to 10).
Camera groups 1 to 10 can be selected.
● If you press the PAGE button and then the PRESET MEMORY/MENU buttons (1 to 10), camera groups 11 to 20 can be selected.

```
CAM_GROUP      11
PAGE:2     (11-20)
```

■ Switching the ND filter

● This feature is available on AK-HC1500, AK-HC1800, and AW-HE120 cameras.

1 Assign ND_FILTER to a USER button.
Refer to "Setting the USER buttons" in the "Operating Instructions: <Operations and Settings>" for details about assigning functions to the USER buttons.

2 Press the USER button assigned with ND_FILTER.
The USER button turns on, and the value of the currently selected ND filter is displayed on the LCD panel.
The corresponding PRESET MEMORY/MENU button (1 to 4) is lit.

PRESET MEMORY/ MENU button	ND filter value
1	AK-HC1500, AK-HC1800: Clear AW-HE120: Through
2	AK-HC1500, AK-HC1800: 1/4 AW-HE120: 1/4
3	AK-HC1500, AK-HC1800: 1/16 AW-HE120: 1/16
4	AK-HC1500, AK-HC1800: 1/64 AW-HE120: 1/64

3 Switch the ND filter using the PRESET MEMORY/ MENU buttons (1 to 4).
The corresponding PRESET MEMORY/MENU button (1 to 4) is lit, and the value of the ND filter is displayed on the LCD panel.

```
ND FILTER
                1/4
```

■ Direct connection camera control

● This feature is available on AK-HC1500, AK-HC1800, and AW-HE870 cameras.
The function allows you to control a camera by connecting the camera to the unit via a serial connection, without the use of a pan-tilt head.

1 Open the [SYSTEM] menu, and turn the F1 dial to display the target camera number from [CAM1] to [CAM5].

2 Turn the F2 dial to select [CAM_Direct], and then press the F2 dial to confirm the setting.

```
1.CAM1              ▼
          CAM_Direct↓
```

Camera control can be set to [CAM_Direct] (direct control) for the CAM1 to CAM5 camera numbers.
Camera numbers CAM1 to CAM5 correspond to the TO PAN/ TILT HEAD connectors [1] to [5] on the unit's rear panel.
● This can also be configured with the TYPE setting on the supplied "Setup Software".
<Note>
● The CAM6 to CAM100 camera numbers cannot be set to [CAM_Direct] (direct control).

2. The available Panel/Menu-item list for AW-HE870/AK-HC1500/AK-HC1800

AW-RP50 PANEL ▲ : Available except a pan-tilt head   - : Not Available

	Button		Remarks
1	MENU	Available	
2	PAGE	―	
3	STORE	―	
4	DELETE	―	
5	PRESET1-10	▲	
6	ENC1(F1)	Available	
7	ENC2(F2)	Available	
8	CAMERA OSD	Available	
9	EXIT	Available	
10	USER1	▲	The pan-tilt function cannot be assigned.
11	USER2	▲	The pan-tilt function cannot be assigned.
12	PT ACTIVE	▲	
13	IRIS ENC	Available	
14	IRIS AUTO	Available	
15	CAM1-5	Available	
16	FOCUS ENC(AF)	―	
17	FOCUS AUTO	―	

AW-RP50 MENU ▲ : Available except a pan-tilt head   ― : Not Available

	Button	Menu Items			
1	**GAIN/PED**	GAIN			Available
		PEDESTAL			Available
2	**R/BGAIN**	RGAIN			Available
		BGAIN			Available
3	**R/BPED**	RPED			Available
		BPED			Available
4	**AWB/ABB**	AWB SEL			Available
		SET			Available
5	**SHUTTER**	SHUTTER			Available
		SPEED			Available
6	**DETAIL**	DETAIL			Available
		LEVEL			Available
7	**SCENE/MODE**	SCENE			Available
		MODE			Available
8	**CAMERA**	GROUP	1.	GROUP SELECT	Available
		POWER	1.	CAM POWER	―
			2.	AUTO ON	―
		TALLY	1.	TALLY OUT	Available
9	**SETUP**	USER	1.	USER1	▲
			2.	USER2	▲
		SW LINK	1.	SWLINK	Available
			2.	BUSCONT	Available
			3.	BUS	Available
			4.	FASIST	Available
			5.	CAMSEL	Available
			6,	TALLY_IP	Available
			7.	P/T LEVER	Available

			1.	CAMINF	Available
			2.	FORMAT	Available
			3.	CAMNAME	Available
			4.	SCENE	Available
		SW DISP	5.	GAIN	Available
			6,	SHUTTER	Available
			7.	IRIS	Available
			8.	FILTER	Available
			9.	ALARM	Available
			1.	PAN DIR	─
			2.	TILT DIR	─
			3.	ZOOM DIR	─
			4.	FOUCS DIR	Available
		OPERATE	5.	SPEED WITH Z	─
			6,	SPEED TARGET	Available
			7.	FOCUS/IRIS	Available
			8.	P/T CURV	─
			9.	P/T ACTIVE	▲
			1.	DIAG SPEED	─
		PRESET	2.	SCOPE	─
			3.	HOME POSITION	─
			1.	ND FILTER	Available
			2.	OPTION	─
		FUNCTION	3.	DEFROSTER	─
			4.	WIPER	─
			5.	HEATER/FAN	─
			6.	LAMP	─
			1.	Z MIN SPEED	─
			2.	LIMIT UP	─
		PTZ ADJ	3.	LIMIT DOWN	─
			4.	LIMIT LEFT	─
			5.	LIMIT RIGHT	─
			1.	PRESET CTL1	─
		GPI	2.	PRESET CTL2	─
			3.	PRESET CTL3	─
		LCD BL	1.	BACKLIGHT	Available
		MENU CTL	2.	MENU CONTROL	Available
10	SYSTEM	CAMERA CTL	1. - 100.	CAM1 - 100	Available
		CAM ASSIGN	1. - 100.	CAM1 - 100	Available
		SW CTL	1.	SW	Available
			1.	INPUT1	Available
			2.	INPUT2	Available
		SW ASSIGN	3.	INPUT3	Available
			4.	INPUT4	Available
			5	INPUT5	Available
		AUTO SET IP	1.	AUTO SETUP	Available
			1.	IP ADDRESS	Available
		NETWORK	2.	SUBNETMASK	Available
			3.	GATEWAY	Available

			4.	MAC ADDRESS	Available
		CAM IP ADR	1. - 100.	IP:CAM1 - 100	Available
		CAM PORT	1. - 100.	PORT:CAM1 - 100	Available
		SW IP ADR	1.	IP:SW	Available
		ALARM	1.	POWER	Available
			2.	CAM***	Available
			3.	CAM***	Available
			4.	CAM***	Available
			5.	CAM***	Available
			6.	CAM***	Available
		INITIALIZE	1.	INITIALIZE	Available
		VERSION	1.	SYSTEM VER	Available
			2.	PROGRAM VER	Available
			3.	FPGA VER	Available

*** is the number of the camera in the selected group of cameras