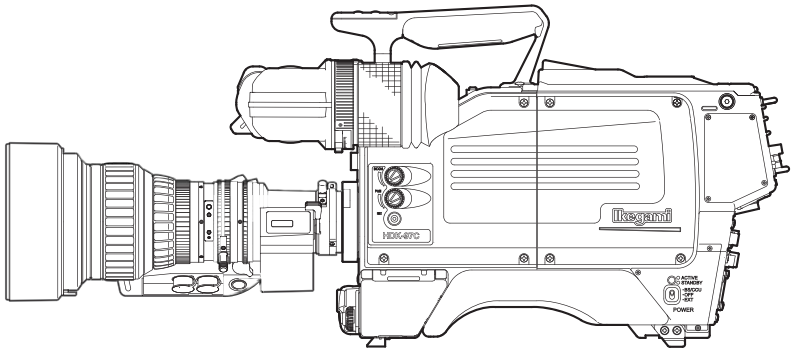


HDK-97C
(FA-97)

3G HIGH DEFINITION CAMERA SYSTEM

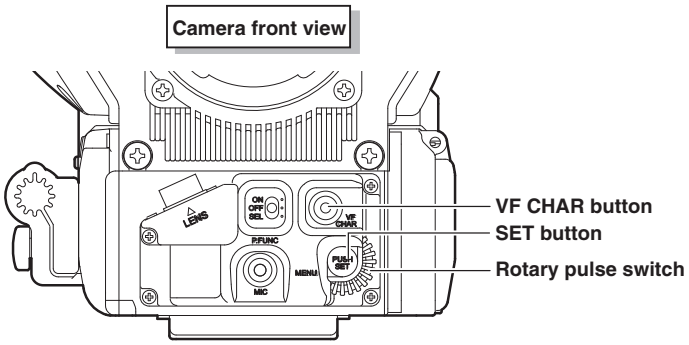
Head Menu and Lens File

Ikegami

5.2 Settings from the Menu

Basic Operation of the Menu

The menu function can set up the items to display in the viewfinder and other various status of the camera to suit the shooting conditions. The selection and setting of each item are performed by displaying the main menu/submenu in the viewfinder or the monitor.



Rotary pulse switch : Used to select a setting item.
SET button : Pressed to confirm the selection and setting.
VF CHAR button : Used with the SET button to switch to the menu mode and display the menu.

■ *Displaying the Simple Menu*

This section explains how to display the simple menu in the viewfinder and monitor.

1 Press the SET button while holding down the VF CHAR button on the front of the camera.

The main menu appears in the viewfinder and monitor.

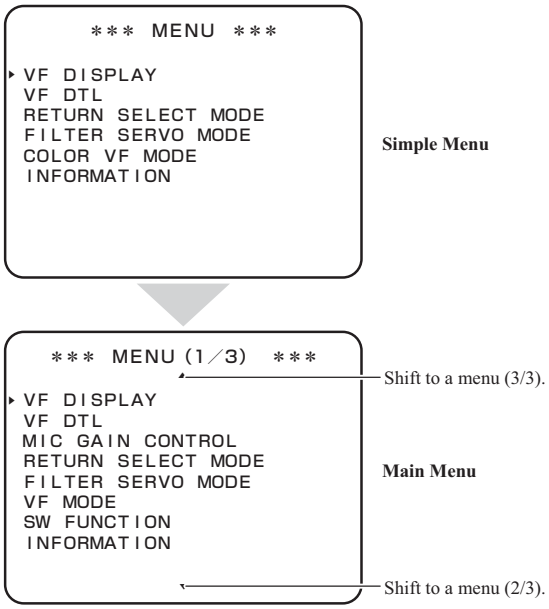
```
*** MENU ***

▸ VF DISPLAY
  VF DTL
  RETURN SELECT MODE
  FILTER SERVO MODE
  COLOR VF MODE
  INFORMATION
```

■ *Displaying the Main Menu*

This section explains how to display the main menu in the viewfinder and monitor.

1 Keep pressing the SET button while holding down the VF CHARA button on the front of the camera.

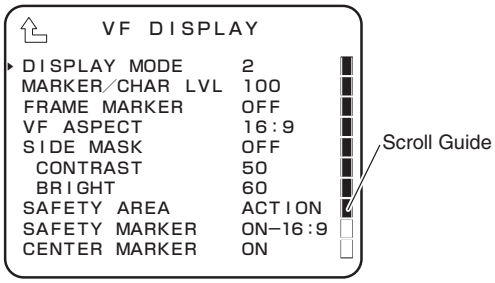
The simple menu appears in the viewfinder and monitor first, and then the screen switches to the main menu.



■ *Displaying the Submenu*

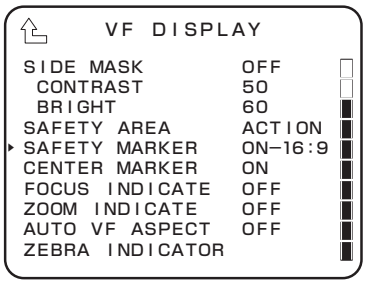
You can perform various settings on the submenu that is displayed from the main menu in the viewfinder or monitor.

1 Make sure that the main menu is displayed.



2 Turn the rotary pulse switch on the front of the camera to position the cursor on the setting item, and press the SET button.

The submenu appears, on which you can perform various settings.



CAUTION:

If the SET button is not pressed after selecting a value in the mode selection column, the change may be canceled.

Note:

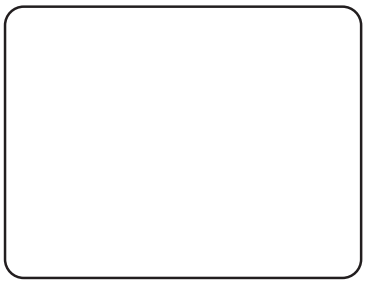
- To return to the main menu, select "⏎" and press the SET button.
- The scroll guide is displayed on the submenu containing multiple items.

■ *Exiting the Menu*

This section explains how to exit the main menu/submenu in the viewfinder or monitor.

1 Press the VF CHAR button on the front of the camera.

The main menu/submenu disappears.



Note:

The menu in SE operation terminates when the MENU switch is turned OFF.

Menu Configuration and content

The following lists the camera menu configuration.

■ *MENU (Simple Menu)*

The simple menu is the same as MENU (1/3) described below. Refer to items in MENU (1/3) for details of each menu.

■ *MENU (1/3)*

Menu Item	Initial setting	Setting value	Description, Remarks	MENU DATA *1 ALL	MENU DATA *1 VF
VF DISPLAY					
DISPLAY MODE	2	OFF, 1, 2	OFF : The markers and characters are constantly OFF, and only the warning messages are displayed. 1 : Only the markers are constantly displayed. Information related to characters is displayed for 2 seconds during function operation and when changing parameters. 2 : The markers and characters are displayed at all times.	✓	✓
VF DTL	35	1 to 100	Sets the VF detail amount. The detail amount decreases in the direction of "0" and increases in the direction of "100".	✓	✓
MARKER/CHAR LVL	100	1 to 100	Sets the brightness levels of the markers and characters. The brightness level gets dark in the direction of "1".	✓	✓
FRAME MARKER	OFF	ON-16:9, ON-14:9, ON-13:9, ON-4:3, OFF	Sets the frame marker.	✓	✓
VF ASPECT	16:9	16:9, 4:3	Sets the VF aspect ratio.	✓	✓
SIDE MASK	OFF	OFF, ON-4:3, ON-13:9, ON-16:9	Sets the side mask.	✓	✓
CONTRAST	50	0 to 100	Adjusts the side mask contrast level.	✓	✓
BRIGHT	60	0 to 100	Adjusts the side mask brightness level.	✓	✓
SAFETY AREA	ACTION	ACTION, TITLE	ACTION : Area marker of 93% of the screen height and width. TITLE : Area marker of 89% of the screen height and width.	✓	✓
SAFETY MARKER	ON-16:9	ON-4:3, ON-16:9, OFF	Sets the safety marker.	✓	✓
CENTER MARKER	ON	ON, OFF	Sets the center marker.	✓	✓
FOCUS INDICATE	ON	OFF, ON	Only active when using the serial lens.	✓	✓
ZOOM INDICATE	ON	OFF, ON	Only active when using the serial lens.	✓	✓
AUTO VF ASPECT	OFF	ON, OFF	Switches the VF aspect ratio in linked motion with the output mode of the BS/CCU down converter.	✓	✓
ZEBRA INDICATOR			Overlaps the striped pattern signal on the image if the image level has exceeded the individual DETECT LEVELS. The zebra indicator goes ON/OFF with the VF special switch. -Zebra 1 signal : Fine, slanted striped pattern signal flowing toward the upper right of the screen. Use to control the tone of the entire screen. -Zebra 2 signal : Thick, slanted striped pattern signal flowing to the lower right of the screen. Used for controlling the tone of the subject, such as face tone, etc		
ZEBRA1 DETECT	100%	30 to 109%	Sets the DETECT LEVEL of the 1st zebra indicator.	✓	✓
ZEBRA2 IND	OFF	OFF, ON	Selects whether there is a 2nd zebra indicator or not.	✓	✓
ZEBRA2 DETECT	70%	30 to 109%	Sets the DETECT LEVEL of the 2nd zebra indicator.	✓	✓
ZEBRA IND LVL	78		Adjusts the overlap level of the zebra indicator.	✓	✓

*1 : It is possible to determine when loading MENU DATA from the SD CARD whether to read the entire MENU or to read only items related to VF. The setting of an item having a checkmark is read.

Menu Item	Initial setting	Setting value	Description, Remarks	MENU DATA	
				ALL	VF
VF DTL			Adjusts the overlap amount of the VF image focusing edge signal (VF DTL).		
BOOST FREQ	10MHz	10MHz,15MHz, 18MHz,18MHzWIDE	Selects the frequency to be boosted.	✓	✓
NOISE SUP	0	0 to 10	Sets the removal level of the noise signal.	✓	✓
MIC GAIN CONTROL					
MIC1 STEP	-40dB	+4dB, 0dB, -10dB, -20dB, -30dB, -40dB, -50dB, -60dB	The MIC1 gain is changed step by step.	✓	-
MIC1 FINE	0	-100 to 100	Fine adjustment of the MIC1 gain. The gain decreases about -8 dB with -100, and increases about +8 dB with +100.	✓	-
MIC2 STEP	-40dB	+4dB, 0dB, -10dB, -20dB, -30dB, -40dB, -50dB, -60dB	The MIC2 gain is changed stepwise.	✓	-
MIC2 FINE	0	-100 to 100	Fine adjustment of the MIC2 gain. The gain decreases about -8 dB with -100, and increases about +8 dB with +100.	✓	-
RETURN SELECT MODE					
RET-2/MIC SEL	RET-2	RET-2, MIC	Allocates a function to the RET-2/MIC button on top of handle and on left side of camera.	✓	-
VTR SW SEL	RET-2	RET-2, MIC	Allocates a function to the VTR SW button on lens.	✓	-
RET PRIORITY	NOTHING	NOTHING, RET-2, RET-1	If a RET-1 or RET-2 image is not displayed in the viewfinder, sets the output signal to MON SDI (during RETURN setting). NOTHING : Sets to RET image last displayed in VF. RET1 : Sets to RET-1 image. RET2 : Sets to RET-2 image.	✓	-
FILTER SERVO MODE					
SERVO CONT	SERVO	SERVO ,MANUAL	SERVO : Sets to automatic control. MANUAL : Sets to manual control.	✓	-
VF MODE					
COLOR VF	AUTO	AUTO, ON	AUTO : Automatically recognizes the color VF to convert the VF VIDEO signal to R/G/B output. ON : Makes the VF VIDEO signal output R/G/B.	✓	-
FRONT TALLY	ENABLE	ENABLE, DISABLE	Sets active/inactive for VF FRONT TALLY.	✓	-
SW FUNCTION					
RET-1 *(*HANDLE*)*	RET-1	RET-1, ZOOM-, FOCUS-, NONE	Sets the button control of RET-1 and RET-2/MIC on the top of the handle. When assigning to ZOOM, FOCUS, a serial lens is required.	✓	-
RET-2 *(*HANDLE*)*	RET-2	RET-2, ZOOM+, FOCUS+, NONE		✓	-
ZOOM SPEED	15	0 to 100	Sets the operational speed of ZOOM, FOCUS control. The speed is slower for "0" and faster for "100".	✓	-
FOCUS SPEED	15	0 to 100		✓	-
INFORMATION					
MPU MODULE SW	(information display)		Displays the DIP switch settings of the MPU module.	-	-
WORKING TIME		**.*H	Displays the total accumulated operation time of the camera up to the present.	-	-
SUB TIME		**.*H, RESET	Displays the camera's calculated operation time. Differs from WORKING TIME because it can be reset by the user.	-	-
ROM NO.		STR-****-V**.**.**	ROM NO. displays the ROM version (STR-4895V**) of the MPU-A module.	-	-
CHECK SUM			CHECK SUM displays the ROM data check sum.	-	-

■ *MENU (2/3)*

Menu Item	Initial setting	Setting value	Description, Remarks	MENU DATA ALL	MENU DATA VF
VIDEO OUTPUT MODE					
SDI OUT	CAM	CAM, HD Q-TV,(CAM(1.5G))	SDI OUT changes the signal output from the SDI OUT connector on the rear of the camera. CAM : Outputs the camera's video signal (main line). HD Q-TV : Outputs the HDTV Q-TV signal sent from the CCU when a CCU is connected. CAM (1.5G) : Selectable only for 3G formats such as 1080/59.94p and 50p.	✓	-
VF SELECT	Y	Y, R, G, B, R+G+B, (R/G/B)	VF SELECT switches the VF signal. The R/G/B signal can be selected when the color VF is connected.	✓	-
MONITOR OUT	MONI	MON, SYNC	MONITOR OUT selects the signal output from the MON OUT connector on the rear of the camera. MONI : Outputs the camera signal used for monitoring. SYNC : Outputs a 3-value synchronized SYNC signal	✓	-
MONI SDI OUT	MONI	MONI, VF, RETURN, HD Q-TV	MON SDI OUT changes the signal output from the MON OUT connector on the rear of the camera. MONI : Outputs the monitor signal. VF : Outputs the VF signal to the monitor. RETURN : Outputs the RET signal from the CCU to the monitor when a CCU is connected. HD Q-TV : Outputs the HDTV Q-TV signal from the CCU to the monitor when a CCU is connected.	✓	-
MID/HIGH GAIN MODE			.		
MID GAIN	+3dB	-3 to +9dB *Lower than MID gain	Sets the medium gain value allocated to the M position of the GAIN SELECT switch.	✓	-
HIGH GAIN	+6dB	+3 to +12dB *Higher than High gain	Sets the high gain value allocated to the H position of the GAIN SELECT switch.	✓	-
BATTERY WARNING					
BATT WARN VOLT	11.0V	10.5 to 13.5V	Sets the battery voltage threshold to display warning.	✓	-
BARS MODE					
BARS MODE	Destination setting	FULL, MULTI	FULL : Displays the BARS signal conventionally used. MULTI : Displays the multiformat BARS signal.	✓	-
BARS ON	OFF	ON, OFF	Turns the color bar signal ON/OFF.	-	-
FAN CONTROL					
FAN CONT MODE	AUTO	AUTO, SLOW, MANUAL, FAST	AUTO : Automatically changes the cooling fan speed according to the internal temperature level. SLOW : Sets the fan to SSLOW for 5 minutes. After 5 minutes, the mode changes to AUTO. MANUAL : Can select the speed of each fan. FAST : Set the fan to FAST.	-	-
HEAD TOP	(information display)	SSLOW, SLOW, NOR, FAST	SSLOW : Fan speed is very slow. SLOW : Fan speed is slow. NOR : Fan speed is normal. FAST : Fan speed is fast.	-	-
HEAD SIDE		SSLOW, SLOW, NOR, FAST			
ADAPTOR		SSLOW, SLOW, NOR, FAST			
VF CONT		SLOW,FAST			
FAN CONDITION					
HEAD TOP	(information display)	OK,NG	OK : Normal NG : Fan is stopped.	-	-
HEAD SIDE					
ADAPTOR					
H PHASE CONTROL			Adjusts the horizontal phase when using external synch.		
H PHASE	0.0	-100 to +100	Sets so that the phase of the internal SYNC signal matches the phase of the external SYNC signal. The internal SYNC advances in the direction of -100 in relation to the external synch, and delays in the direction of +100. Can only be set during self-operation.	-	-
TIME SETTING					
TIME	---	HH : MM : SS	Sets the time and date when saving the file to the memory card.	-	-
DATE (YY/MM/DD)	---	YY / MM / DD			

Menu Item	Initial setting	Setting value	Description, Remarks	MENU DATA	
				ALL	VF
MEMORY CARD			See (Page 100) for the memory card usage method.		
SAVE FILE					
ALL DATA	---		Saves the selected data to the memory card.	-	-
SNAP SHOT	---				
SCENE	---				
REFERENCE	---				
LENS	---				
MENU DATA	---				
LOAD FILE					
ALL DATA	---		Loads all files.	-	-
SNAP SHOT	---		Loads snapshot files.	-	-
SCENE	---	ALL, SELECT NUMBER	Possible to select whether to load all from SCENE DATA or to load individual data from 1 to 8.	-	-
REFERENCE	---		Loads the reference file.	-	-
LENS	---	ALL, SELECT NUMBER	Possible to select whether to load all from LENS DATA or to load individual data from 1 to 8.	-	-
MENU DATA	---	ALL, VF	Possible to select whether to load all menus from MENU DATA or only those menus related to VF.	-	-

■ *MENU (3/3)*

Menu Item	Initial Setting	Setting Value	Description, Remarks	MENU DATA	
				ALL	VF
SCAN FORMAT SELECT			Selects the camera operation format during self-contained operation. Changing the format automatically restarts the camera. When a CCU is connected, this menu is disabled because the format set on the CCU side is used.		
CURRENT				-	-
			Displays the present camera operation format.	-	-
FORMAT SELECT				-	-
BASE FREQ	(Destination setting)	59.94Hz,50Hz	Selects base frequency.	-	-
IMAGE SIZE	(Destination setting)	1080I,1080P	Selects image size.	-	-
FIELD FREQ	(Destination setting)	59.94, 50	Selects field freqency.	-	-
SUBSAMPLING	(Destination setting	RGB444-12BIT,RGB444-10BIT,YPbPr422-10BIT	Selects subsampling.	-	-
CHANGE FORMAT	READY	READY, EXECUTE, CANCEL	The camera restarts in the selected format.	-	-
CPU SYSTEM CONTROL					
SEMI SELF MODE	ON	OFF, ON	When disconnecting the remote controller and operating by the camera alone after adjusting the camera using the remote controller.	✓	-
SEMI REMOTE MODE	OFF	OFF, ON	Sets the semi-remote mode. The ON/OFF setting during remote (control with remote controller, etc. connected) can be controlled on the camera side with the GAIN changing switch, AWB changing switch, output changing switch and SHUTT/SUP-V switch on the right side of the camera. In this case, control on the remote controller side is not possible.	✓	-

Menu Item	Initial Setting	Setting Value	Description, Remarks	MENU DATA	
				ALL	VF
AUTO IRIS SET					
IRIS SET MODE	OFF	OFF, ON	ON : Enables auto-iris operation setting. If set to ON, the iris adjustment from the remote controller is disabled.	-	-
IRIS LEVEL SET	0	-100 to +100	Adjusts the convergence level of auto iris. Shoot the registration chart with the camera and adjust the value so that the video level becomes 75%.	-	-
PEAK RATIO SET	-70	-100 to +100	Shoot the gray scale chart with the camera and adjust the value so that the video level is 100%. Set the exposure for a bright area in the "+" direction and for a dark area in the "-" direction. The default value "50" indicates no exposure compensation.	-	-
IRIS GAIN	50	1 to 100	Sets the auto-iris response sensitivity characteristics. The auto-iris operation sensitivity is such that "1" is low and "100" is high. Hunting tends to occur more often as the value goes up. (Set it to the default value"50" as long as hunting is not occurring).	-	-
IRIS SPEED	50	1 to 100	Sets the response speed characteristics of the auto-iris. The auto-iris speed becomes slower for "1" and faster for "100".	✓	-
IRIS LIMIT	F22	F22, F20, F18, F16	If the iris is about to close during auto-iris operation, it stops the iris operation before it completely closes to prevent iris hunting. Sets the iris limit value at that time.	✓	-
LENS ADJUST	OFF	OFF, F2.8, F16	Sets the output of control voltage for fixed iris value during lens adjustment. To adjust the relationship between the lens control voltage value and lens iris value, the control voltage equivalent of F2.8 and F16 can be output to the lens.	-	-
AUTO SETUP MODE					
AUTO SETUP	LEVEL	FULL, LEVEL, F.QUICK, QUICK	AUTO SETUP activates each auto setup. FULL : Activates FULL auto setup and initializes the camera (Activated mainly at the time of maintenance and inspection.) LEVEL : Activates auto setup of the video level. F.QUICK : Activates FULL QUICK auto setup. A chart is not needed since it uses the built-in electric signal. QUICK : Activates QUICK auto setup. A chart is not needed since it uses the built-in electric signal.	✓	-
FULL AUTO REF	INT	EXT, INT	FULL AUTO REF specifi es whether to use external reference or internal reference to activate FULL auto setup. EXT : Uses external reference value (user setting). INT : Uses internal reference value (factory setting).	✓	-
AWB WITH A.IRIS	OFF	ON, OFF	AWB WITH A. IRIS specifi es whether to control auto iris simultaneously with auto white balance when AWB is activated. ON : Forces to set auto iris when AWB is activated. OFF : Activates AWB with the current iris mode.	✓	-
AWB REFERENCE	ON	ON, OFF	AWB REFERENCE specifi es whether to use the user setting as AWB convergence value. ON : Uses the user setting. OFF : Adjusts the GAIN of Rch and Bch so that it matches the Gch level.	-	-
ABS MODE	FPN	NORMAL, APS, P ONLY	ABS MODE sets the adjustment mode of automatic black shading. NORMAL : Sets the mode to automatic adjustment of black balance and SAW/PARA black shading. APS : Sets the mode to automatic adjustment of black peak shading as well as NORMAL. P ONLY : Sets the mode to automatic adjustment of black balance and black peak shading.	-	-
CHART SEARCH	ENABLE	ENABLE, DISABLE	Detects the auto setup chart during auto setup.	-	-
REFERENCE SET	ABB		REFERENCE SET sets a reference value for auto setup, AWB, or ABB to create reference fi le. FULL : Sets the reference values for all auto setup items, except AWB convergence value. AWB : Sets the user setting as AWB convergence value. ABB : Sets a reference value of pedestal.	-	-

Menu Item	Initial Setting	Setting Value	Description, Remarks	MENU DATA	
				ALL	VF
LENS SELECT					
NUMBER	OFF	OFF, NO.1 to NO.8	Select the lens file number. -If the lens code is obtained from the lens, (CODE SEL) is displayed on the back of the lens number display. -If AUTO SEL is ON, "AUTO SEL" is displayed on the back of the lens number display.	✓	-
NAME	(---------)	12 characters	Set the file name for each lens file. Attaching the lens model name, etc. will make it easier to know the correspondence between the lens number and lens.	-	-
( )	(---------)	AUTO SEL name display section	Displays the lens name obtained from the serial lens.	-	-
EXTENDER	OFF	OFF, ON-1, ON-2, ON-3, x0.8 CONV	Displays the extender state.	-	-
AUTO SEL	OFF	OFF, ON	The lens file number is switched automatically according to the model name obtained from the lens.	✓	-
FILE SET	OFF	OFF, MANUAL, AUTO	See (Page 92) for the FILE SET usage method.	-	-
LENS TYPE	OFF	OFF, C.PORTABLE, C.STUDIO, C.FIELD, F.PORTABLE, F.STUDIO, F.FIELD	To match the zoom tracking DTL operation characteristics with the lens zoom characteristics, set the time of the lens used in the camera. OFF : Game tracking DTL is OFF. C.PORTABLE : Canon portable lens C.STUDIO : Canon studio lens C.FIELD : Canon field lens F.PORTABLE : Fujinon portable lens F.STUDIO : Fujinon studio lens F.FIELD : Fujinon field lens Set by lens file (NO.1-8).	✓	-
AUTO x0.8 CONV	OFF	OFF, ON	Set automatic switching of the aspect ratio converter (X0.8) internal lens. If set to ON, it operates in linked motion with the output aspect ratio of the down converter to carry out automatic switching.	✓	-
LENS SERIAL I/F	ON	ON, OFF	Set whether to respond to the serial interface of the lens or not.	✓	-
LEVEL ADJUST					
MASTER GAMMA	0.0	-100 to +100	Sets the master gamma value. The gamma value decreases in the direction of " -100" and increases in the direction of "+100".	-	-
MASTER PED	0.0	-100 to +100	Sets the master pedestal value. The pedestal value decreases in the direction of "-100" and increases in the direction of "+100".	-	-
MASTER FLARE	0.0	-100 to +100	Sets the master flare value. The flare value decreases in the direction of "-100" and increases in the direction of "+100".	-	-
DTL GAIN	0.0	-100 to +100	Sets the detail amount. The detail amount decreases in the direction of "-100" and increases in the direction of "+100".	-	-
ADJ CLR	READY	READY, PUSH SET→CLR, CANCEL	Returns the settings changed with LEVEL ADJUST to the state prior to change as a group.	-	-
PROCESS MODE					
GAMMA TYPE	NORMAL	NORMAL,CUSTOM1-5	Selects the type of gamma curve. NORMAL: Normal gamma curve CUSTOM1-5: Custom gamma curve (Refer to "MENU(3/4)>CUSTOM GAMMA DATA" for editing the custom gamma data.)	-	-
MATRIX	OFF	OFF, 1, 2, 3	There are independent settings for three channels of the matrix, which can be switched.	-	-
HI-LIGHT DTL	ON	OFF, ON	Possible to increase the DTL level of the highlight part.	-	-
GAIN	0.0	1 to 100	Sets the level value to be emphasized. Level increases in the direction of +100.	-	-
LIMIT	0.0	-100 to +100	Sets the upper limit for the emphasized DTD level. The "-100" direction lowers the limit. The "+100" direction raises the limit and lowers the DTL level.	-	-
SMOOTH KNEE	TYPE-1	OFF, TYPE1, TYPE2, TYPE3	SMOOTH KNEE is a function to adjust the compression level of the brightness signal with KNEE. It can be selected from the following three setting types. TYPE1 : The compression rate of brightness is low. TYPE2 : The compression rate of brightness is medium. TYPE3 : The compression rate of brightness is high.	-	-
DTL V FILTER	OFF	ON, OFF	If the V filter of the DTL is ON, the resolution feeling in direction V diminishes, making it possible to obtain an image with less noise.	✓	-

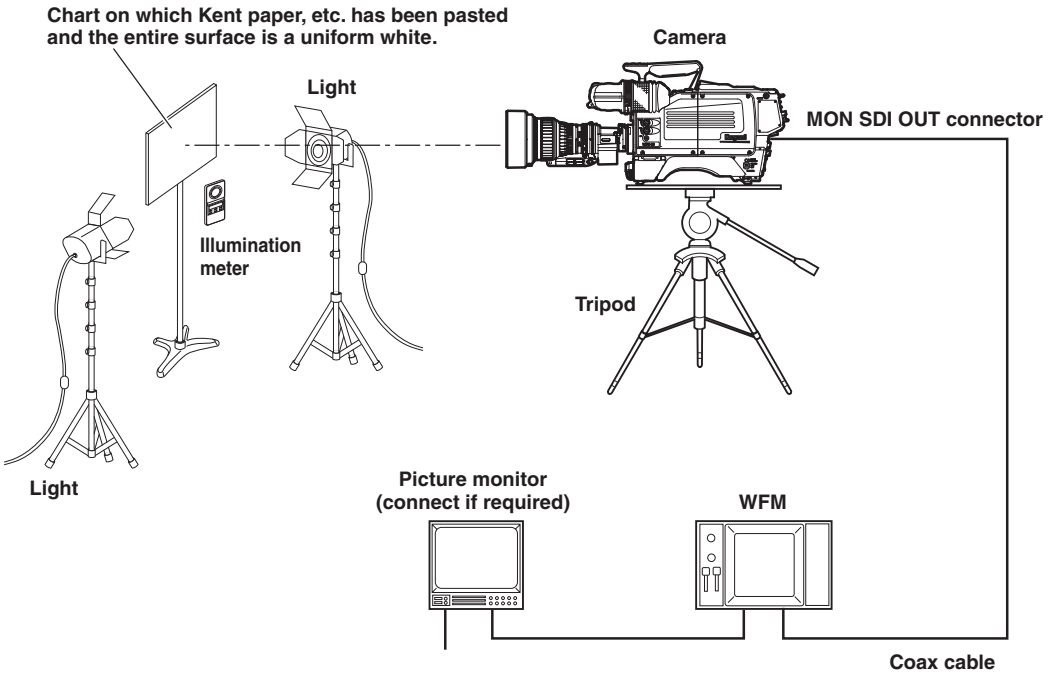
Menu Item	Initial Setting	Setting Value	Description, Remarks	MENU DATA	
				ALL	VF
CUSTOM GAMMMA MODE					
EASY MODE			Easy creation mode. Sets various parameters and creates the custom gamma data.		
DEFAULT RESET	---	EXECUTE, CANCEL	Returns to the original custom gamma data. If you have saved the custom gamma data with the "SAVE" function, it returns to the saved data. The original data cannot be recovered once it is overwritten with the "SAVE" function.	-	-
SELECT	NORMAL	NORMAL, CINE1-2, CUSTOM1-5	Selects the gamma table to be created.	-	-
CURVE TYPE	---	NORMAL, LOG, SPECIAL	Sets the basic properties of gamma curve.	- *4	-
INITIAL GAIN	---	1.0 - 9.0	Sets the slope of gamma curve at around 0%. The curve rises steeply as the value increases.	- *4	-
18% GRAY	---	14.0% - 107.0%	Sets what level it should be after the gamma has been applied when converting from 18% level before applied.	- *4	-
DYNAMIC RANGE	---	100% - 600%	Sets the maximum level (the maximum input level to the gamma) before the gamma has been applied.	- *4	-
WHITE LIMIT	---	70% - 109%	Sets the white clip after the gamma has been applied.	- *4	-
CAL	OFF	OFF, CAL100%, CAL200%, CAL300%, CAL400%, CAL600%	Selects the test waveform (CAL) to check the gamma table.	-	-
SAVE	---	EXECUTE, CANCEL	Saves the data that has been created. The data is temporary unless you save it. Therefore, the data will be cleared if you end the menu without saving it.	-	-
FLEXIBLE MODE			Flexible creation mode. Edits the already created custom gamma data.		
DEFAULT RESET	READY	CANCEL, EXECUTE	Returns to the original custom gamma data.	-	-
SELECT	NORMAL	NORMAL,CUSTOM1 to 5	Selects the gamma table to be created.	-	-
POINT	100%	15 to 440%	Sets the video level before the gamma has been applied.	-	-
WIDTH	60%	20 to 100%	Sets the width of the video level .	-	-
LEVEL	0	-100 to 100	Sets the video level of the range set by the WIDTH and POINT.	-	-
CAL	OFF	OFF, CAL100%,CAL200% ,CAL300%,CAL400%,CA L600%	Sets the test waveform to verify gamma table.	-	-
SHUTTER	OFF	OFF, PRESET, VARIABLE	Selects for the electronic shutter.	-	-
SHUTTER SPEED	1/100	PRESET: 1/100 - 1/2000 VARIABLE: 1/63.4 - 1/1983	Switches the shutter speed. (When SHUTTER is in PRESET and VARIABLE only.)	-	-
GAMMA CURVE COPY	---	CUSTOM1-5 --> CUSTOM1-5	Copies the gamma data that has been created into the other data in the camera.	-	-
SD MEMORY CARD				-	-
SAVE	---	---	Saves the custom gamma data in an SD card.	-	-
LOAD	---	---	Loads the custom gamma data from an SD card.	-	-
PRESET FILE LOAD			Function to load the user settings (ENGINEER SET FILE) or factory settings (FACTORY SET FILE) for the level adjustment or menu of the camera. Used to return the camera state back to the previous or initial settings.		
FILE SELECT	ENGINEER	ENGINEER, FACTORY	ENGINEER : Initializes the state back to the user setting. FACTORY : Initializes the state back to the initial factory setting.	-	-
LOAD START	READY	READY, START, CANCEL	Executes initialization.	-	-

*4 : CUSTOM GAMMA MODE - Loads the custom gamma data from SD card through the LOAD menu.

■ *FILE SET*

FILE SET creates a lens file.
To change the settings, select "LENS SELECT" on MENU (3/3), then "FILE SET."
The following explains the set values, descriptions, and setting procedures.

Set Value	Description
OFF (default)	Does not create lens files.
MANUAL	Stores the current lens status as a file. ("LENS No. x" will be displayed at the bottom of the screen.)
AUTO	Starts auto setup for lens file creation. ("PUSH SET -> START" will be displayed and flash at the bottom of the screen.)



Note:

- The creation of lens file requires precise adjustment; therefore, lens files are protected against unintentional update by the S11-4 DIP switch of the MPU module.
- When creating a lens file, set the optical filter to ND:100% and the ECC filter to 3200K. Also confirm that no special effect filter is attached to the front of the lens or internal filter disk. If a special effect filter is attached, it may not be possible to correctly create the lens file.
- When operating the DIP switch (S11) in the MPU module, turn the POWER switch of the camera OFF once.

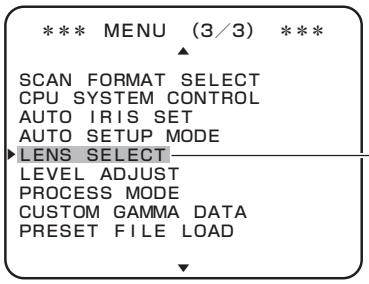
1 Set the camera for level setup.

- Mount the standard lens, which is used as a reference lens, to the camera.
- Chart on which Kent paper, etc. has been pasted and the entire surface is uniform white is used for the photographic subject.
- Use an illumination meter to adjust the light so that light is evenly distributed over the whole chart.

2 Dip switch S11-4 On allows creation of a lens file, Off prohibits creation of new lens files.

3 On MENU (3/4), turn the rotary pulse switch to position the cursor on "LENS SELECT," and press the SET button.

The submenu is displayed.



4 Set "NUMBER", "NAME" and "EXTENDER".

Refer to the explanation of corresponding item for how to set each data.
NO. 1 is selected here as an example.

CAUTION:

If a new file is created with the same file number as an existing file, the data will be overwritten and the old data will be lost.

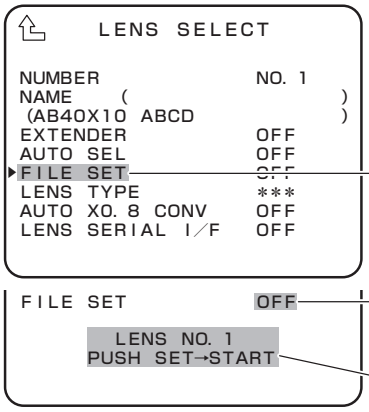
5 Turn the rotary pulse switch to position the cursor on "FILE SET," and press the SET button.

The cursor moves to the mode selection column.

6 Turn the rotary pulse switch to select the set value, and press the SET button.

The value is confirmed, and either of the following messages is displayed at the bottom of the screen:
- LENS No. x : Displayed when "MANUAL" is selected.
- PUSH SET -> START : Displayed and flashes when "AUTO" is selected.

Go to Step 7 when "AUTO" is selected.
When "MANUAL" is selected, go to Step M1 to obtain the model name of the lens after lens file items such as GAIN/FLARE/GAMMA are adjusted by MCP, etc.



7 Press the SET button.

The lens file is created.

8 Set the S11-4 DIP switch of the MPU module back to "OFF."

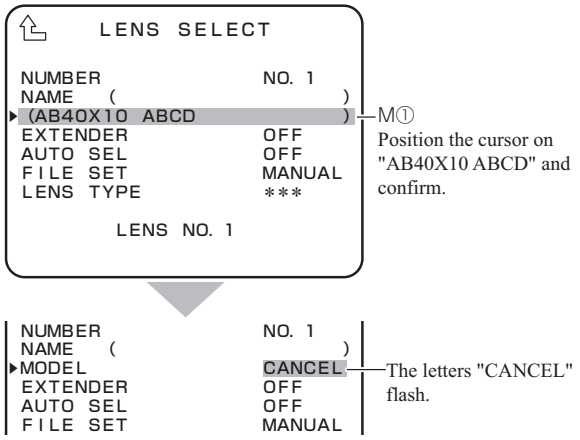
Note:
- When the camera is powered OFF, the FILE SET settings are turned OFF.
- Before creating lens files, prepare all the lenses to use. Then, create the files under the same condition at a time. If the conditions are changed, the setting cannot be accurate. Lens files memorize a difference in level between lenses. If the lighting or chart is changed, it cannot tell whether it is the lighting error, chart error, or lens error.

M1 Turn the rotary pulse switch to position the cursor on the AUTO SEL NAME display part (AB40X10 ABCD), and press the SET button.

The screen switches to a display for obtaining a new model number from the lens, and the letters "CANCEL" flash.

Note:

"(AB40X10 ABCD)" is used here for an example of the model name automatically and previously obtained from the lens.

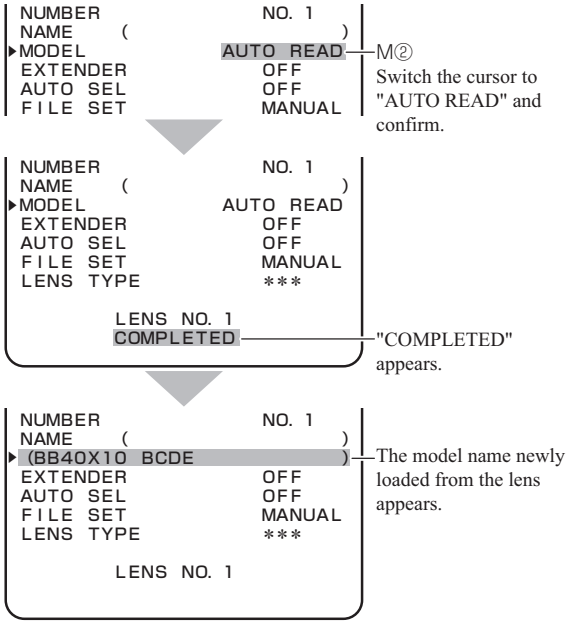


M2 Turn the rotary pulse switch to switch the cursor on "CANCEL" to "AUTO READ", and press the SET button.

- "COMPLETED" appears on the bottom.
- When "COMPLETED" disappears, a newly loaded model name will appear.

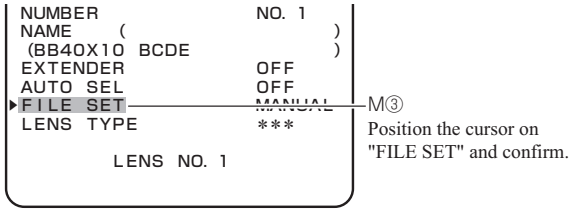
Note:

"(BB40X10 BCDE)" is used here for an example of the model name automatically and newly obtained from the lens.

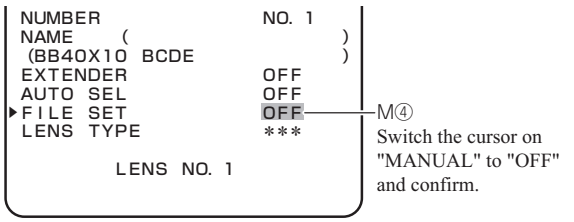


M3 Turn the rotary pulse switch to position the cursor on "FILE SET", and press the SET button.

The cursor moves to the mode selection column.

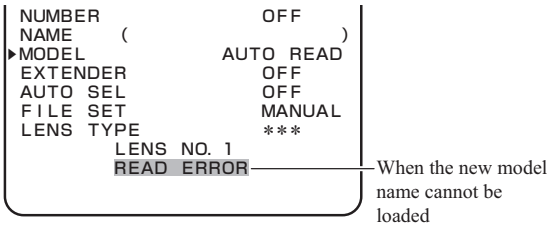


M4 Turn the rotary pulse switch to switch the cursor on "MANUAL" to "OFF", and press the SET button to complete the lens file creation. Then, go to Step 8.

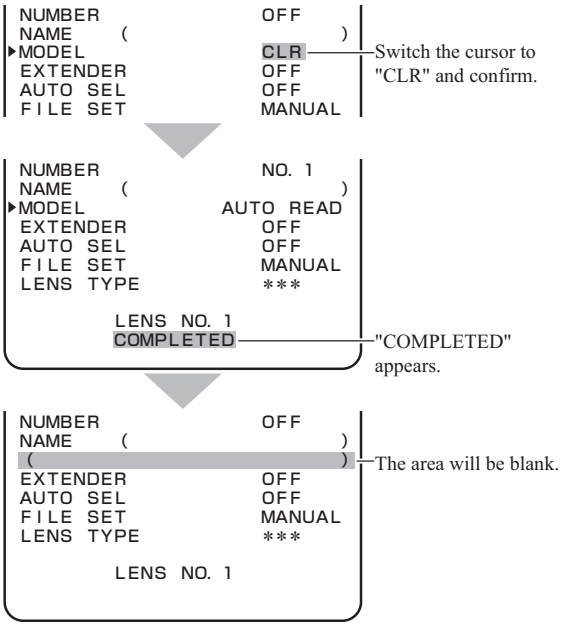


Note:

- When the new model name cannot be loaded from the lens, "READ ERROR" appears on the bottom instead of "COMPLETED".



- When the rotary pulse switch is turned to switch the cursor on "CANCEL" to "CLR" and the SET button is pressed in Step M2, "COMPLETED" appears on the bottom.
  Next, when "COMPLETED" disappears, the area to display a model name automatically obtained from the lens will be blank.



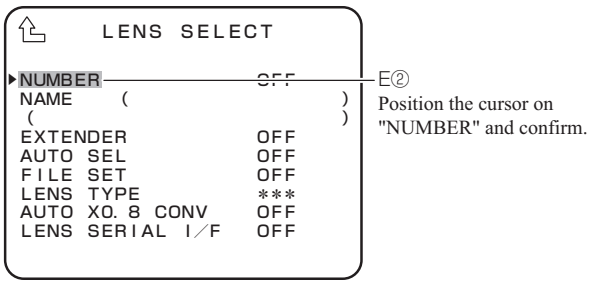
Note:

The lens name used for "AUTO SEL" can be edited so that the lens file can be shared with a similar lens.
The following explains the procedures.

E1 Follow Steps 1 to 3 of lens file creation to display the submenu.

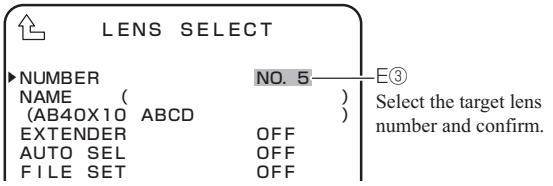
E2 Turn the rotary pulse switch to position the cursor on "NUMBER", and press the SET button.

The registered lens numbers (NO. 1 to NO. 8) are displayed.



E3 Turn the rotary pulse switch to position the cursor on the lens number of the file name to be edited, and press the SET button.

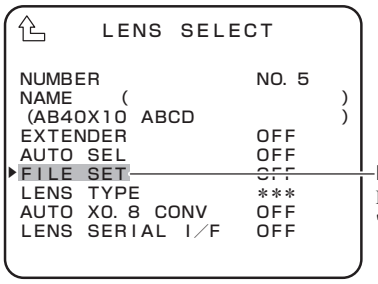
The NO.5 lens set in "AUTO SEL" is selected here as an example and the AUTO SEL NAME display part displays "AB40X10 ABCD".



E4

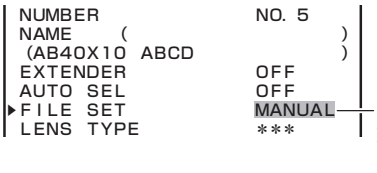
Turn the rotary pulse switch to position the cursor on "FILE SET", and press the SET button.

The cursor moves to the mode selection column.



E5

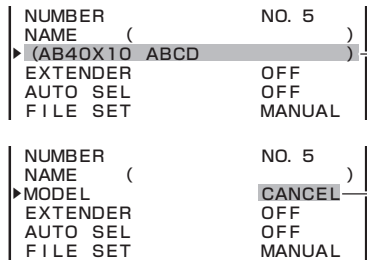
Turn the rotary pulse switch to position the cursor on "MANUAL", and press the SET button.



E6

Turn the rotary pulse switch to position the cursor on the AUTO SEL NAME display part, and press the SET button.

The item changes to "MODEL", and the letters "CANCEL" flash.



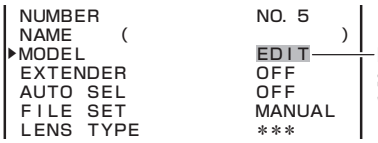
Reference:

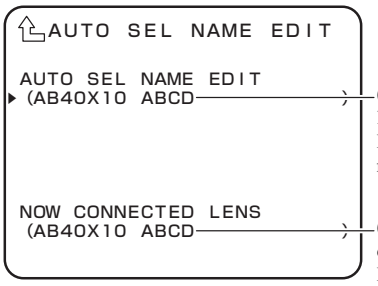
If "AUTO SEL NAME" is not set, the AUTO SEL NAME display part does not display the lens model name.
Connect the target lens, perform "AUTO READ", and then follow the procedures below.
Refer to Steps M1 and M2 for performing "AUTO READ".

E7

Turn the rotary pulse switch to switch the cursor from "CANCEL" to "EDIT", and press the SET button.

The under submenu "AUTO SEL NAME EDIT" is displayed.

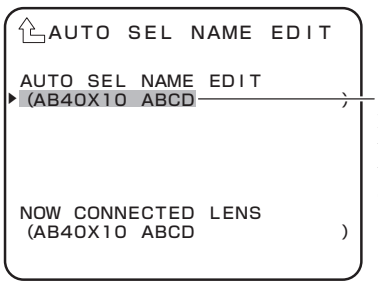




E8

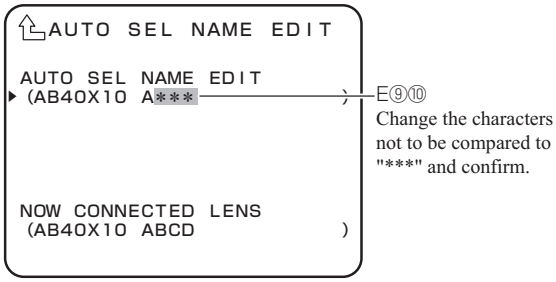
Turn the rotary pulse switch to position the cursor on the part for displaying the lens name to be edited, and press the SET button.

The item changes to the edit mode and ( ) at both ends flash.



E9 Turn the rotary pulse switch to edit the lens name. Use "*" for the characters that are not to be compared in "AUTO SEL".

"AB40X10 A" are to be compared and the following "BCD" are not to be compared here as an example. Editing the lens name in this way allows you to apply the same lens file to the following two lenses.
- "AB40X10 ABCD"
- "AB40X10 AEFG"



E10 After editing the lens name, press the SET button and confirm.

The edit mode is terminated and ( ) at both ends stop flashing.
Now go to Step M3.

CAUTION:

1. The processing for "AUTO READ" is as follows:
   * When a serial lens is connected
     The model name of the serial lens currently connected is set for "AUTO SEL NAME".
   * When no lens is connected or an analog lens is connected
     The registered "AUTO SEL NAME" is retained.
2. "AUTO SEL NAME EDIT" can be set regardless of whether a lens is connected or not.
3. "AUTO SEL NAME EDIT" is a function to edit the model name read through "AUTO READ".
4. This function is not available if the model name of the target serial lens has not been obtained through "AUTO READ".

5.3 Using the Memory Card

The memory card can be used to store/read the setting condition of the camera.
For the memory card, it is possible to use the SD/SDHC memory card with the following specifications.

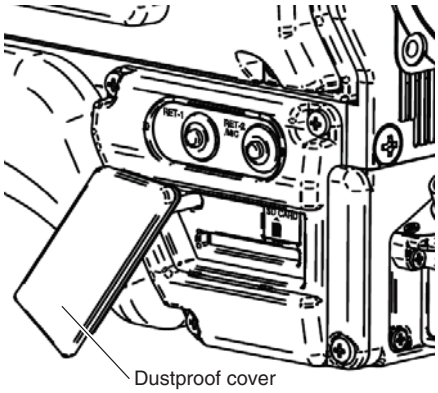
-Memory capacity : SD card from 32 MBytes to 2 GBytes.
SDHC card from 4 GBytes to 32 GBytes.
-Format : Format meeting standards of SD/SDHC memory card.

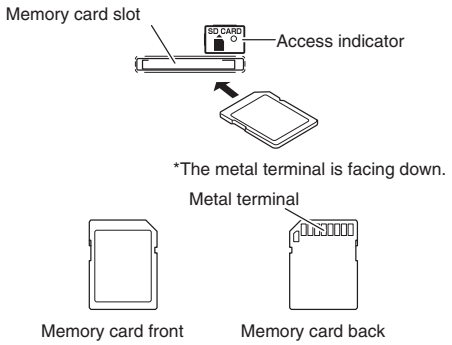
CAUTION:

Market-sold memory cards have undergone sufficient confirmation of operation at this company. However, we cannot assume any responsibility for guaranteeing operation.

■ *Inserting and removing the memory card*

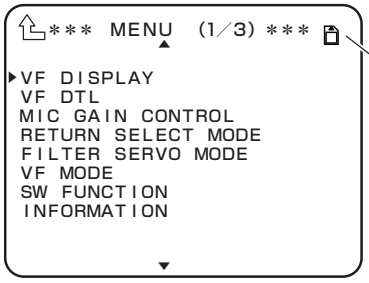
There is a memory card slot as shown in the illustration below on the bottom left side of the camera main unit.
Open the dustproof cover and insert the memory card in the memory card slot.





CAUTION:

When inserting the memory card in the slot, be sure that the memory card is facing in the correct direction.



If the camera is recognizing the memory card normally, the memory card mark is displayed in the upper right of the VF menu screen.

When removing the memory card from the card slot, gently press the memory card until there is a clicking sound and then carefully remove the card.

■ *Storing the camera setting state on the memory card*

Store the camera setting state on the memory card. First confirm that the write protect switch of the memory card is not on the LOCK side.

1 Turn the rotary pulse switch on MENU (2/3), set the cursor to [MEMORY CARD] and press the SET button.

The submenu is displayed.

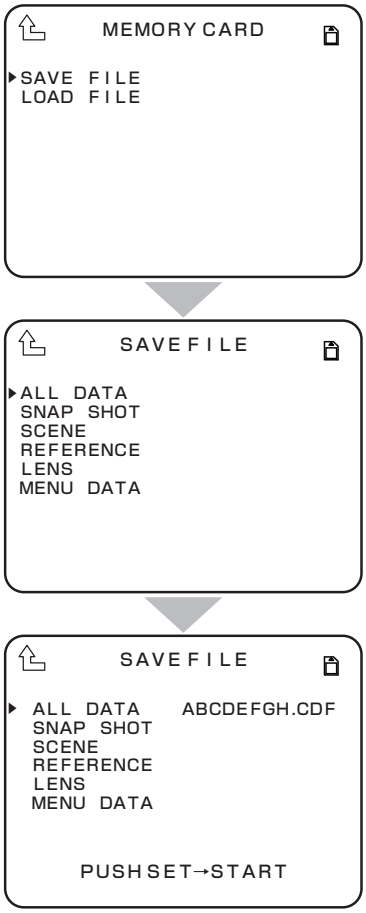
2 Select [SAVE FILE] and press the SET button.

The SAVE FILE submenu is displayed.

3 Select the item from the SAVE FILE submenu that you wish to save.

Select ALL DATA on the picture.

4 After selecting the item you wish to save, press the SET button. Then use the rotary pulse switch and SET button to insert an eight-character file name.
When the eight character file name has been determined, [PUSH SET -> START] is displayed on the cursor.
Press the SET button.If a file of the same file name exists on the memory card at this time, proceed to step M1. If you wish to cancel, turn the rotary pulse switch when [PUSH SET -> START] is displayed.

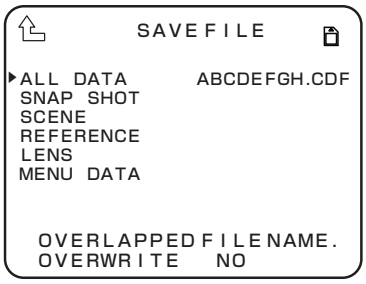


5 When the file is being saved, [SAVING FILE] is displayed.
If the file is saved normally, [COMPLETE] is displayed.

CAUTION:

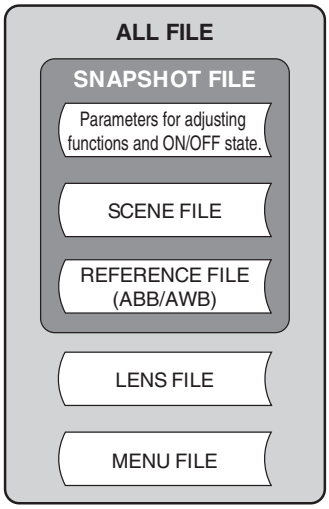
Never remove the memory card from the slot during display of [SAVING FILE] or while the access indicator is lighted, as data is being written to the memory card. Removing it at this time could damage the memory card data or the memory card itself.

M1 If a file with the same file name exists on the memory card, a message is displayed asking whether it is all right to write over the data. To enable writing over of data, change [NO] to [YES] and press the SET button. If [NO] has been selected, storage is cancelled and the system returns to step [3].



Note:

The images of the storage range for files are shown in the figure below.



■ *Reading the camera setting condition from the memory card.*

Read the camera setting condition from the memory card.

1 Turn the rotary pulse switch on MENU (2/3) to adjust the cursor to [MEMORY CARD] and press the SET button.

The submenu is displayed.

2 Select [LOAD FILE] and press the SET button.

The LOAD FILE submenu is displayed.

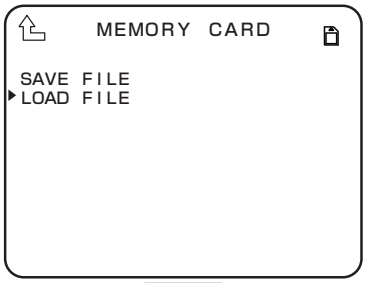
3 Select the item you which to read to the camera from the LOAD FILE submenu.

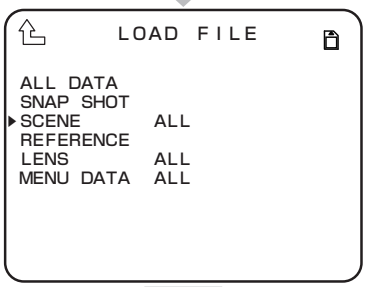
In the figure, [SCENE] is selected.

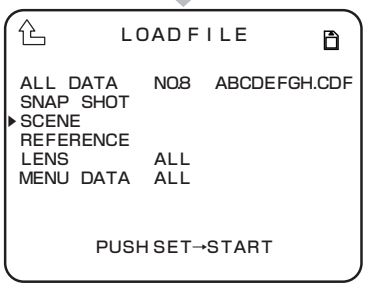
4 After selecting the item to be read to the camera, press the SET button.
Then select whether to read all files or individual files from No. 1 to No. 8. In the example in the figure, No. 8 is selected. Then select a file stored on the memory card.
After the contents are determined, [PUSH SET -> START] is displayed. Press the SET button.
If you wish to cancel, turn the rotary pulse switch when [PUSH SET -> START] is displayed.

Note:

SCENE FILE, LENS FILE, MENU DATA is about, it is possible to select individual data (ALL) or all data.
-SCENE : ALL , NO.1-NO.8
-LENS FILE : ALL , NO
-MENU DATA : ALL , VF







5 When the file is being saved, [SAVING FILE] is displayed. If the file is saved normally, [COMPLETE] is displayed.If ALL FILE and MENU DATA have been read, the camera is automatically restarted after display of [COMPLETE].

CAUTION:

Never remove the memory card from the slot during display of [SAVING FILE] or while the access indicator is lighted, as data is being written to the memory card. Removing it at this time could damage the memory card data or the memory card itself.

CAUTION:

If changes as those listed below have been made in the file name stored to a PC, etc., it is not possible to display the file name normally.
-If a file name with more than 8 characters has been set.
-Using file names (kanji, kana, etc.) composed of characters other than half-size letters of the alphabet.

■ *Error Messages*

If an error is generated when saving or reading files, various error messages are displayed. The error messages and contents are as shown below.

Error Message	Contents
NO CARD	Memory card not inserted.
CANNOT OPEN FILE	File cannot be opened.
NOT CAMERA DATA FILE.	Not a camera data file.
FILE OF DIFFERENT CAMERA.	Different type of file.
RELEVANT DATA IS NOT FOUND.	Relevant data cannot be found.
WIRTE ERROR	Write error.
READ ERROR	Read error.
ERROR	Other error.