



OPERATING INSTRUCTIONS

CAMERA CONTROLLER FOR COMBINATION CAMERA SOFTWARE

C-CC514

C-CC564

C-CC574

C-CC714

C-CC764

C-CC774

Thank you for purchasing TOA Combination Camera.
Please carefully follow the instructions in this manual to ensure long, trouble-free use of your equipment.

TOA Corporation

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1. ABOUT THE SOFTWARE LICENSE AGREEMENT

Software License Agreement

To our customers:

Be sure to first read this Software License Agreement before using the CAMERA CONTROLLER Software (the "Software" herein).

Your consent to the conditions stated in this Agreement and the conclusion of this Agreement are assumed when the Software upgrade of your PC is completed.

You are not licensed to use the Software unless you agree to the conditions in this Agreement.

Clause 1. Licensing

TOA CORPORATION licenses its customers to use the Software. The PC(s) for which customers are licensed to use the Software are limited to those PC(s) each customer personally manages and uses. The "customer" herein refers to those who actually purchased the TOA COMBINATION CAMERA, regardless of whether they are individuals or companies.

Clause 2. Copyright

TOA CORPORATION holds the copyright of the Software, which is protected by Japan's Copyright Act and applicable international treaties, etc.

Clause 3. Prohibition of Duplication, Distribution, Modification, and Analysis

(a) The customer must not copy or duplicate the Software.

(b) The customer must not assign, lend, transfer or otherwise allow any third party to use the Software.

(c) The customer must not decompile or reverse-engineer the Software.

Clause 4. Quality Assurance

TOA CORPORATION assumes no responsibility, under any circumstances, for losses (including but not limited to losses of business profits, interruption of business operation, loss of business information, and monetary damages) that the customer may sustain resulting from the use of the Software or inability to use it.

Clause 5. Termination of the Agreement

TOA CORPORATION can terminate this Agreement if the customer infringes this Agreement. The customer is not allowed to use the Software if the Agreement is terminated.

2. SYSTEM REQUIREMENTS

This program has been designed based on the following system requirements.

OS:	Windows2000/XP
CPU:	Pentium III 600 MHz or greater
MEMORY:	At least 128 MB of RAM
FREE DISK SPACE:	At least 20 MB

Note: Windows is the registered trademark of Microsoft Corporation.

Pentium is the registered trademark of Intel Corporation.

3. GENERAL DESCRIPTION

The PC software is designed for exclusive use for verifying the controls running the Combination Camera, Type B protocol, and the camera control can be performed via RS-485 or RS-232C. Also Firmware upload function for the Combination Camera is loaded. The PC software is supplied with the Combination Camera.

4. FEATURES

- Allows confirmation of camera operation, including menu-based setting and backup of settings data.
- Allows title settings data to be created in advance.
- Allows camera firmware to be uploaded.

5. HANDLING PRECAUTIONS

- Using this software for camera control requires a PC equipped with an RS-232C port. The RS-232C connector on the camera is an RJ45 jack. A conversion cable is necessary in order to connect the ordinary PC's D-Sub 9-pin RS-232C connector to the camera. To use this software to control the camera via its RS-485 port, the computer must be connected to an RS-232C ⇔ RS-485 converter.
- Download our TOA Products Data, web site (<http://www.toa-products.com/international/>) to get the up-to-date version for CAMERA CONTROLLER software and manuals (Installation, Setup, Operating Instructions).
This software version number can be checked on splashing screen at the time of activation.
Manual version number is printed on its bottom right.

6. CONNECTIONS

6.1. When Connecting to RS-232C Interface

Items required by users:

- RS-232C ⇔ RS-485 Converter

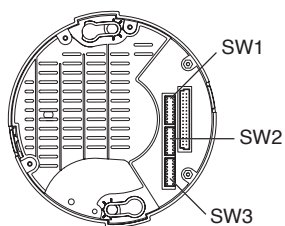
Recommended : Cisco Systems 2500 Auxillary Console Cable Kit

Part # : ACS-2500ASYN=

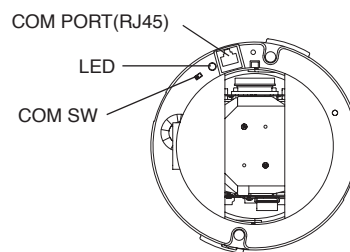
Settings

- DIP switch 2 (SW2) No.6 : ON
- COM switch (COM SW) ON (LED lights)

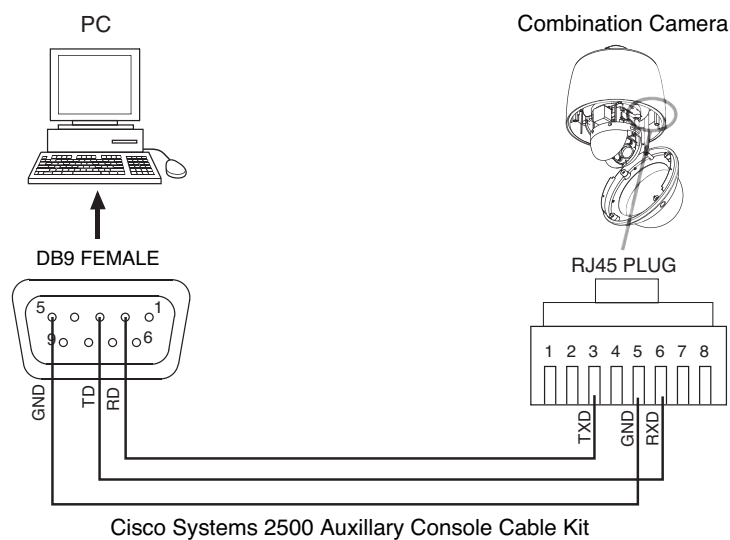
Camera Unit Section (Top view)



Camera Unit Section (Bottom view)



Connection Diagram



6.2. When Connecting to RS-485 Interface

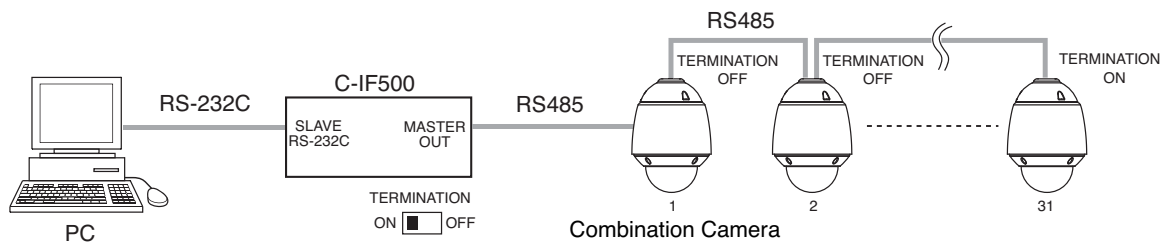
Items required by users:

- RS-232C Crossing Cable
- RS-232C ⇔ RS-485 Converter (recommended: C-IF500)
- CPEV-S (Twisted pair cable) Recommended: Diameter of 0.65mm or above.

Settings

- DIP switch 2 (SW2) No.6 : ON

Connection Diagram



6.3. List of Connections & Functions by System

System	Connection		Function			
	RS-232C	RS-485	Operation Panel	Title Setting	Setting Data Backup	CPU writer
C-RM500 System *4	○ *1	○ *2	○	○	○	○ *3
Type B Protocol System	○ *1	○	○	○	○	○ *3

*1 Turn the COM switch ON.

*2 Turn DIP switch 2 (SW2 No. 6) ON, then turn the power on again. (Control from C-RM500 is not possible while this switch is ON.)

*3 Change the various DIP switch and COM switch settings as shown in the list of CPU writer items, then turn the power on again.

*4 Control via C-RM500 is not possible while using each function.

7. INSTALLATION

Terminate all other application programs in operation before installation. Follow the procedures below to install.

1. Terminate the application program in operation.

2. Place the installation CD in the CD-ROM drive.

3. Launch the following applications.

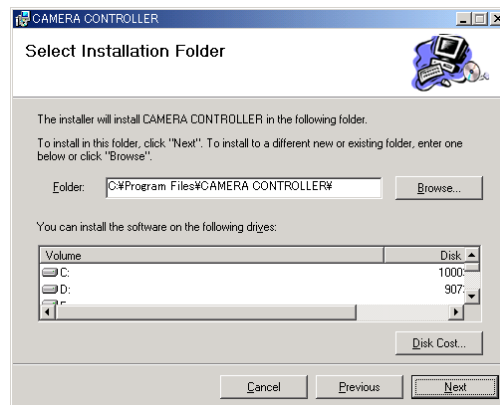
Use either Explorer or My Computer to execute the following files, or use the Start Menu in the Task Bar to select "Run...." and enter the appropriate command. For example, when placing the CD in the "e" drive and installing the English version:

e:\DISK_ENG\SETUP\CAMERA CONTROLLER_E_V100.msi

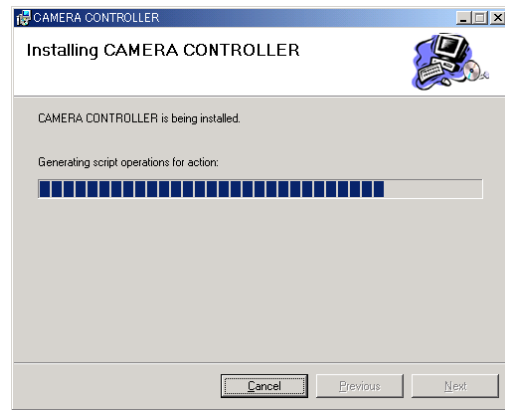
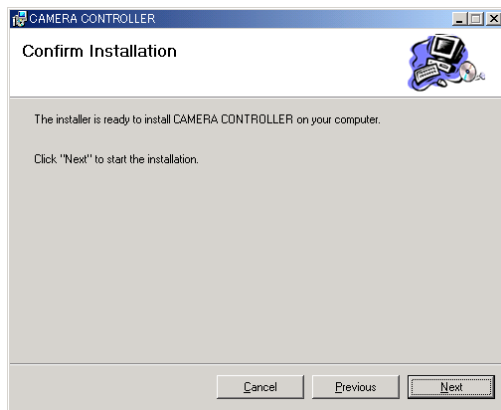
4. An installer is activated.



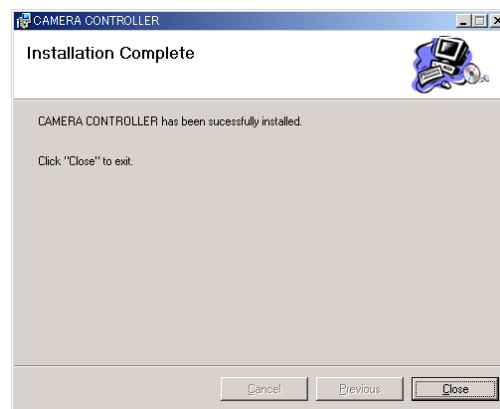
5. Designate the folder into which the program will be installed. Click [Next] button.



6. Click [Next] button.



7. Click [Close] button to terminate the installation.



8. Activate the CAMERA CONTROLLER.
Select the CAMERA CONTROLLER added from [Start] menu to activate.

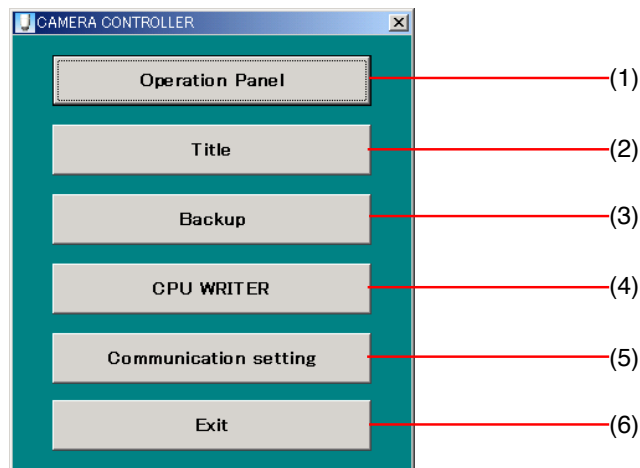
8. STARTING SCREEN

Starting the Camera Controller Software causes the following screen to appear. Version number is displayed at the rightmost edge.



9. MENU SCREEN

[Menu Screen]



(1) Operation Panel Button

Clicking this button causes the Operation screen to activate.

(2) Title Button

Clicking this button causes the Title setting screen to activate.

(3) Backup Button

Clicking this button causes the Setting Data Backup screen to activate.

(4) CPU WRITER Button

Clicking this button causes the CPU WRITER screen to activate.

(5) Communication setting Button

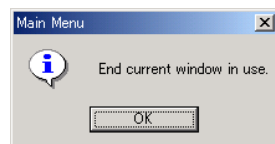
Clicking this button causes the Communication setting screen to activate.

(6) Exit Button

Clicking this button terminates this program software.

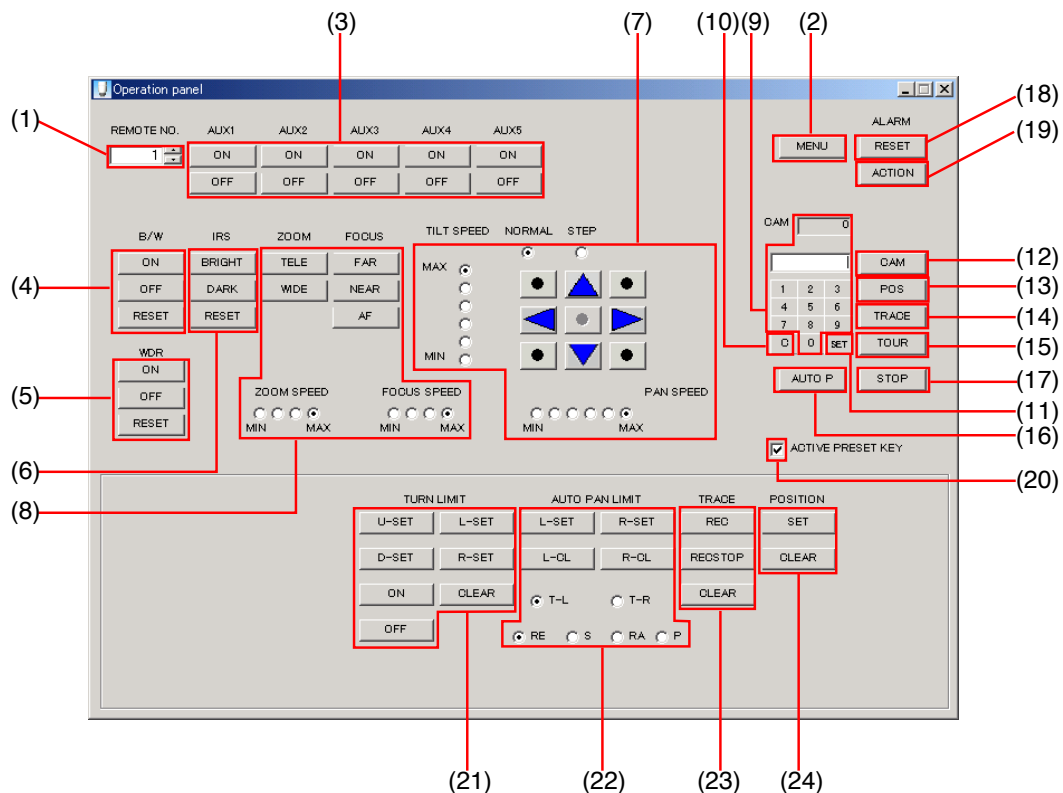
Note that this program software cannot be terminated while screens other than the menu screen are running.

When the [Exit] button is clicked while screens other than the menu screen are running



10. OPERATION SCREEN

Control the camera by clicking the appropriate buttons arranged on the operation screen.



Details of the operation screen are as follows.

(1) Remote No.

Sets the software's remote control address (1–99).

(2) Menu

Used to call up the menu screen for the combination camera.

(3) Aux (1–5)

Clicking the ON button controls the contact for the number that has been turned ON. Clicking the OFF button controls the contact for the number that has been turned OFF. AUX 3–5 are not provided with combination cameras.

(4) B/W

Switches temporarily between color and monochrome. Clicking the ON button switches to a monochrome screen. Clicking the OFF button switches to a color screen. Clicking the RESET button returns the screen to the Day-Night setting screen.

(5) WDR

Temporarily activates the Wide Dynamic Range function. Clicking the ON button activates the Wide Dynamic Range function. Clicking the OFF button deactivates the Wide Dynamic Range function. Clicking the RESET button returns the screen to camera to the camera backlight compensation setting screen.

(6) IRS

Temporarily changes the brightness level. Clicking the BRIGHT button increases the brightness incrementally. Clicking the DARK button reduces the brightness incrementally. Clicking the RESET button returns the screen to the camera brightness setting screen.

(7) Manual Control (Up-Down, Right-Left Speed, Normal, and Step)

Clicking the arrows causes the camera to move in the indicated direction. Clicking on the black dots moves the camera diagonally. The arrow keys on the keyboard can be used similarly to move the camera. The arrow keys are also used when operating the menu screen. When the Normal key is selected, the camera moves in the arrow key direction at the speed set with the radio button, and the speed increases as the radio button moves toward Max. Selecting the STEP button activates a Step operation function.

(8) Zoom, Focus

Zoom allows the camera's field of view to pan out to show a wider area or telescope to focus in on a smaller area. The camera's view can also be telescoped or expanded by pressing the "E" and "D" key on the keyboard, respectively. Focus allows the camera's focus to be adjusted manually, with the "S" and "F" keys also being available to move the focus in or out, respectively. Pressing the "A" key switches the camera to auto-focus.

Zoom speed and focus speed can be selected using the radio buttons, with those toward MAX being faster.

(9) Numerical Keypad (0–9)

Used to enter numerical values for various camera settings in menu screens. Clicking a number causes it to appear in the edit box above the keypad.

(10) "C" Button (Clear)

Clicking this button clears any menu screen numerical settings or values entered using the keypad.

(11) Set

Clicking this button sets item selections and settings entered in the menu screen.

(12) CAM

Clicking this button sets the address of the camera to be operated that has been entered using the numerical keypad. Pressing this button causes the number of the selected camera (0–255) to appear in the edit box beside CAM.

(13) POS

Clicking the button after entering a value using the numerical keypad plays back the corresponding preset memory pattern (0–255).

(14) Trace

Clicking the button after entering a value using the numerical keypad activates the trace function (1–2).

(15) Tour

Clicking the button after entering a value using the numerical keypad starts the Tour sequence function (1–16).

(16) Auto P

Starts auto pan.

(17) Stop

Stops automatic action.

(18) Alarm Reset

Cancels and resets the alarm.

(19) Alarm Action

Authorizes alarm action.

(20) Active Preset Key Checkbox

Marking this check box displays the settings items below.

(21) Turn Limit

U-SET, D-SET, L-SET, R-SET

Stores the limits of the camera's up, down, left, and right movement, respectively.

ON, OFF, and CLEAR Buttons

These buttons turn the rotation range limits on or off or clear them, respectively.

(22) Auto Pan Limit

L-SET, R-SET, L-CL and R-CL Buttons

L-SET and R-SET set the left and right limits of auto panning. L-CL and R-CL clear these limits.

T-L, T-R, RE, S, RA, P Radio Buttons

T-L and T-R set the left and right turning direction. Other settings include RE (Reverse), S (Skip), RA (Random), and P (Pivot).

(23) Trace

REC, REC STOP, and CLEAR Buttons

Clicking the SET START button after entering a value using the numerical keypad causes trace storage to begin. Clicking SET STOP stops trace storage and clicking CLEAR clears the trace storage. Setting values are 1–2.

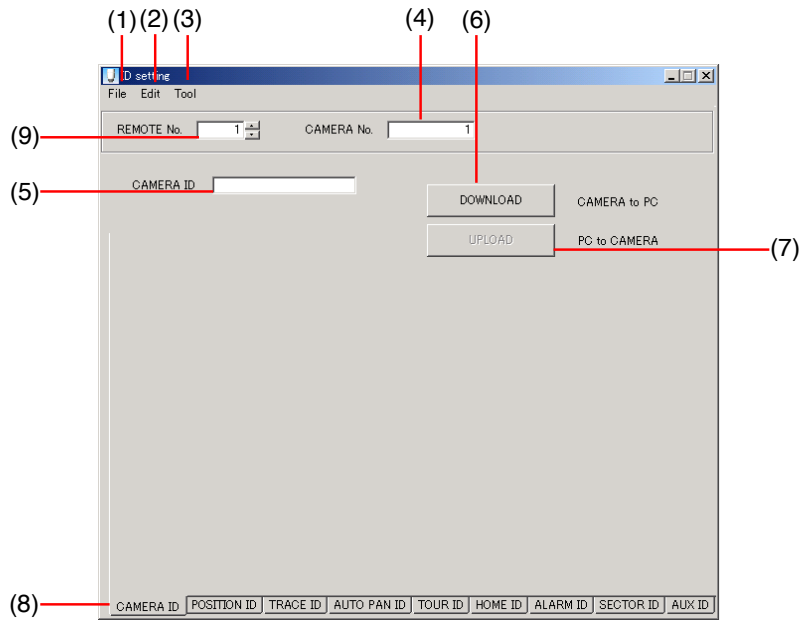
(24) Position

SET and CLEAR Buttons

Clicking the SET button after entering a value (0–255) using the numerical keypad causes the preset value to be set. Clicking CLEAR erases this value.

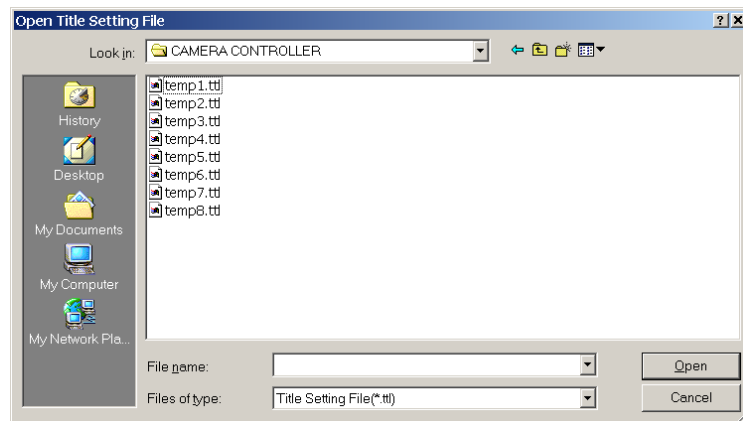
11. TITLE SETTING SCREEN

[Camera ID settings]



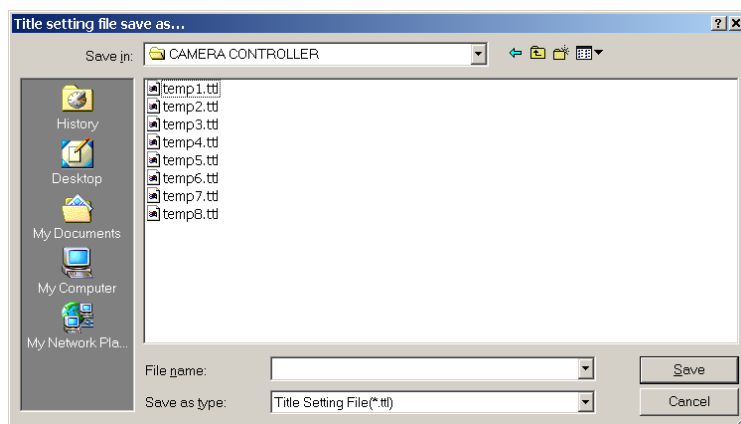
(1) File (F)

- **Create a New File**
Launches a new editing screen.
- **Open**
Displays the following type of window.



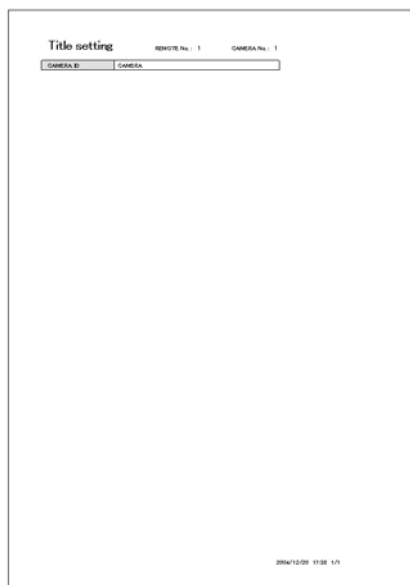
Selected files are displayed on the Title Setting screen.
For screens other than Camera ID Setting screen, refer to **P. 19**; Title Setting Screens.

- **Close**
- **Overwrite**
Overwrites the existing file if the selected file is to be saved over the existing file.
Calls up the "Save As..." function if the selected file is to be saved as a separate file.
- **Save As**
Displays the following type of window.



Saves each set title to the selected file.

- **Print**
Prints the file in the following format.

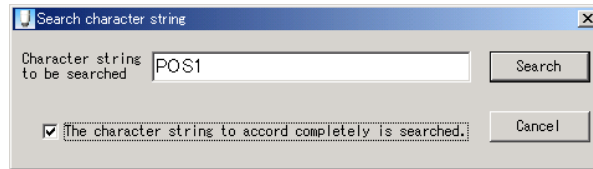


For printing formats, refer to "Printing Formats" (P. 22).

- **Download All IDs**
Downloads all numerical ID data from cameras and reflects these in the edit screen.
If a transmission error occurs, the downloading of ID data is stopped.
- **Upload All IDs**
Checks all numerical ID data to confirm that it contains no entry errors, then transmits this information to cameras.
If a reception error occurs, the uploading of all ID data is stopped.

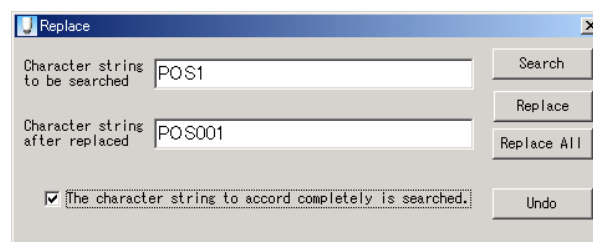
(2) Edit

- **Undo**
Returns the current sheet contents to the previous status.
- **Cut**
- **Copy**
- **Paste**
- **Search**
Displays the following type of window.



- **Replace**

Displays the following type of window.



(3) Tool

- **Check**

Checks the ID character data currently being edited for the error message to confirm that it contains no entry errors. Any IDs containing errors that are found are displayed in red.

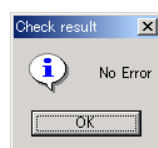
Input Character Error: An unrecognizable character has been entered.

Exceeded Character Error: A name with more than eight characters has been entered.

Note: Unrecognizable characters are those that cannot be converted to an ID code (Refer to P. 31).

[No Error]

If the entered data is found to contain no errors, the following message is displayed.



[Error]

If the entered data is found to contain errors, the following message is displayed.



- **Sort**

Active only during the Position ID selection screen. Position IDs found to contain errors are placed at the top of the list.

(4) Camera No.

Sets the number of the camera to be edited (1–255).

"Save As..." is called up if the camera number has been changed.

(5) ID Entry

Allows IDs up to eight characters long to be entered using the keyboard.

To enter IDs in the form of an ID code, use the [xxx] format (Refer to P. 31).

(6) Download

Downloads the ID character data for the sheet being edited from the specified camera and displays this in the ID entry.

If a reception error occurs, the downloading is stopped.

(7) Upload

Uploads the ID character data for the sheet being edited to the specified camera.

If a reception error occurs, the uploading is stopped.

(8) Sheet Selection Tabs

Used to select the ID to be edited. Refer to the Title Setting Screen for details of specific sheets.

(9) Remote No.

Specifies the remote control address for this software (1–99).

The up and down arrow buttons can be used to raise or lower the value, or the value can be entered directly.

Auto Save Function

Conducts automatic saving of the Title Settings File at interval specified in the Communication Settings Screen.

The auto save interval can be set among the followings (Refer to P. 30).

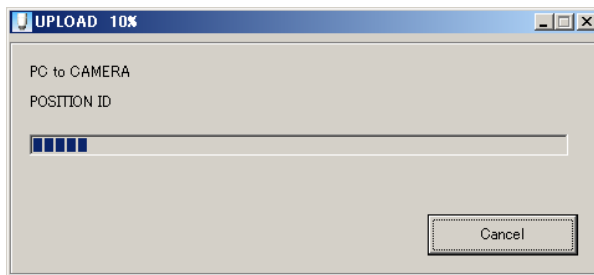
- OFF
- 3 min (3 minutes)
- 5 min (5 minutes)
- 10 min (10 minutes)

• Title Setting Screen Dialog During Data Transfer

1. Dialog During Upload

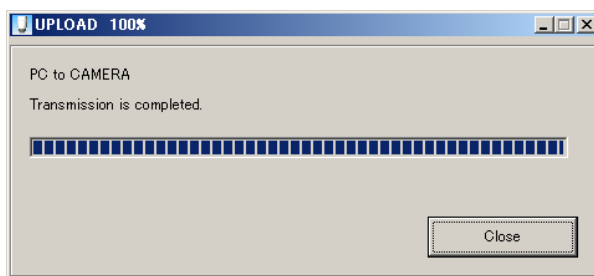
During data upload, the following dialog is displayed.

Click the Cancel button to interrupt the upload and close the dialog. The camera will be set with all of the data transferred up until the point that the Cancel button was clicked. However, in such cases the remaining titles on the camera side may be treated as indeterminate data, and therefore the title setting information may not match that of the destination camera.



2. Finishing Upload

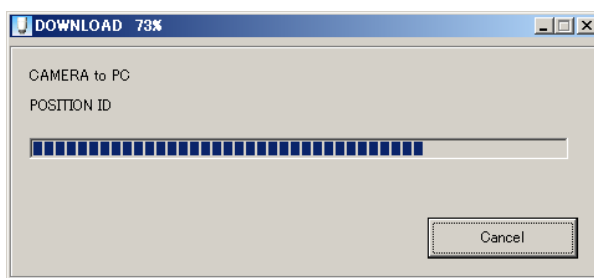
Once uploading has finished, the following dialog is displayed. Click the Close button to close the dialog.



3. Dialog During Download

During data download, the following dialog is displayed.

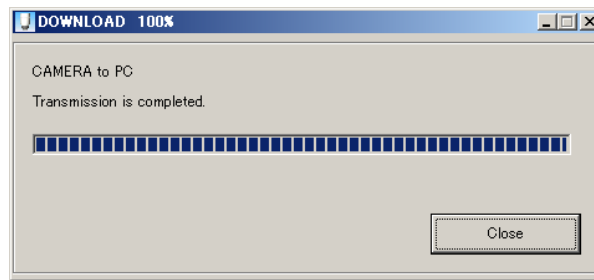
Click the Cancel button to interrupt the download and close the dialog. With this software, all of the data transferred up until point at which the Cancel button is clicked will be set. However, in such cases the remaining titles on the software side may be treated as null data, and therefore the title setting information may not match that of the source camera.



4. Download Completion

When the download is completed, the following dialog will be displayed.

Clicking Close button to terminate the dialog.



• Title Setting Screens

Followings are screens corresponding to each sheet. Setting methods are the same as the Camera ID settings.

[Position ID setting]

The screenshot shows the 'ID setting' window with the 'POSITION ID' tab selected. At the top, 'REMOTE No.' is set to 1 and 'CAMERA No.' is set to 1. Below these are two input fields: 'POSITION No.' and 'ID'. The 'POSITION No.' field contains a list of numbers from 1 to 25. The 'ID' field is empty. To the right of the input fields are two buttons: 'DOWNLOAD' and 'UPLOAD'. Below these buttons are two labels: 'CAMERA to PC' and 'PC to CAMERA'. At the bottom of the window is a tab bar with the following tabs: CAMERA ID, POSITION ID, TRACE ID, AUTO PAN ID, TOUR ID, HOME ID, ALARM ID, SECTOR ID, and AUX ID.

[Trace ID setting]

The screenshot shows the 'ID setting' window with the 'TRACE ID' tab selected. At the top, 'REMOTE No.' is set to 1 and 'CAMERA No.' is set to 1. Below these are two input fields: 'TRACE No.' and 'ID'. The 'TRACE No.' field contains a list of numbers from 1 to 2. The 'ID' field is empty. To the right of the input fields are two buttons: 'DOWNLOAD' and 'UPLOAD'. Below these buttons are two labels: 'CAMERA to PC' and 'PC to CAMERA'. At the bottom of the window is a tab bar with the following tabs: CAMERA ID, POSITION ID, TRACE ID, AUTO PAN ID, TOUR ID, HOME ID, ALARM ID, SECTOR ID, and AUX ID.

[Auto Panning ID setting]

The screenshot shows the 'ID setting' window with the 'AUTO PAN ID' tab selected. At the top, 'REMOTE No.' is set to 1 and 'CAMERA No.' is set to 1. Below these is a single input field labeled 'AUTO PAN ID'. To the right of the input field are two buttons: 'DOWNLOAD' and 'UPLOAD'. Below these buttons are two labels: 'CAMERA to PC' and 'PC to CAMERA'. At the bottom of the window is a tab bar with the following tabs: CAMERA ID, POSITION ID, TRACE ID, AUTO PAN ID, TOUR ID, HOME ID, ALARM ID, SECTOR ID, and AUX ID.

[Tour ID setting]

File Edit Tool

REMOTE No. 1 2 CAMERA No. 1

TOUR No.	ID
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	

DOWNLOAD CAMERA to PC

UPLOAD PC to CAMERA

CAMERA ID POSITION ID TRACE ID AUTO PAN ID TOUR ID HOME ID ALARM ID SECTOR ID AUX ID

[Home ID setting]

File Edit Tool

REMOTE No. 1 2 CAMERA No. 1

HOME No.	ID
1	
2	
3	

DOWNLOAD CAMERA to PC

UPLOAD PC to CAMERA

CAMERA ID POSITION ID TRACE ID AUTO PAN ID TOUR ID HOME ID ALARM ID SECTOR ID AUX ID

[Alarm ID setting]

File Edit Tool

REMOTE No. 1 2 CAMERA No. 1

ALARM No.	ID
1	
2	
3	
4	
5	
6	
7	
8	

DOWNLOAD CAMERA to PC

UPLOAD PC to CAMERA

CAMERA ID POSITION ID TRACE ID AUTO PAN ID TOUR ID HOME ID ALARM ID SECTOR ID AUX ID

[Sector ID setting]

The screenshot shows a software window titled "ID setting" with a menu bar (File, Edit, Tool). At the top, there are input fields for "REMOTE No." (set to 1) and "CAMERA No." (set to 1). Below these is a table for "SECTOR No." and "ID". The table has 8 rows, with the first row containing "1" and an empty "ID" field. To the right of the table are two buttons: "DOWNLOAD" and "UPLOAD". Further right are two labels: "CAMERA to PC" and "PC to CAMERA". At the bottom of the window is a tabbed interface with the following tabs: CAMERA ID, POSITION ID, TRACE ID, AUTO PAN ID, TOUR ID, HOME ID, ALARM ID, SECTOR ID (which is currently selected), and AUX ID.

SECTOR No.	ID
1	
2	
3	
4	
5	
6	
7	
8	

DOWNLOAD CAMERA to PC
UPLOAD PC to CAMERA

CAMERA ID POSITION ID TRACE ID AUTO PAN ID TOUR ID HOME ID ALARM ID SECTOR ID AUX ID

[AUX ID setting]

The screenshot shows the same "ID setting" window, but with the "AUX ID" tab selected at the bottom. The table now has "AUX No." as the first column and "ID" as the second. The first row contains "1" and an empty "ID" field. The rest of the interface, including the "DOWNLOAD" and "UPLOAD" buttons and the other tabs, remains the same.

AUX No.	ID
1	
2	
3	
4	
5	
6	
7	
8	

DOWNLOAD CAMERA to PC
UPLOAD PC to CAMERA

CAMERA ID POSITION ID TRACE ID AUTO PAN ID TOUR ID HOME ID ALARM ID SECTOR ID AUX ID

Printing Formats

[Position ID setting]

Title setting		REMOTE No. : 1	CAMERA No. : 1
POSITION No.	ID		
1	PO01		
2	PO02		
3	PO03		
4	PO04		
5	PO05		
6	PO06		
7	PO07		
8	PO08		
9	PO09		
10	PO10		
11	PO11		
12	PO12		
13	PO13		
14	PO14		
15	PO15		
16	PO16		
17	PO17		
18	PO18		
19	PO19		
20	PO20		
21	PO21		
22	PO22		
23	PO23		
24	PO24		
25	PO25		
26	PO26		
27	PO27		
28	PO28		
29	PO29		
30	PO30		
31	PO31		
32	PO32		
33	PO33		
34	PO34		
35	PO35		
36	PO36		
37	PO37		
38	PO38		
39	PO39		
40	PO40		
41	PO41		
42	PO42		
43	PO43		
44	PO44		
45	PO45		
46	PO46		
47	PO47		
48	PO48		

2004/12/08 17:43 1/8

[Trace ID setting]

Title setting		REMOTE No. : 1	CAMERA No. : 1
TRACE No.	ID		
1	TRAE01		
2	TRAE02		

2004/12/08 17:48 1/1

[Auto Panning ID setting]

Title setting

REMOTE No. : 1CAMERA No. : 1

AUTO PNR ID

AutoPan

2004/12/28 17:48 1/1

[Tour ID setting]

Title setting

REMOTE No. : 1CAMERA No. : 1

TOUR No.	ID
1	TOUR01
2	TOUR02
3	TOUR03
4	TOUR04
5	TOUR05
6	TOUR06
7	TOUR07
8	TOUR08
9	TOUR09
10	TOUR10
11	TOUR11
12	TOUR12
13	TOUR13
14	TOUR14
15	TOUR15
16	TOUR16

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[Home ID setting]

Title setting

REMOTE No. : 1CAMERA No. : 1

HOME No.	ID
1	HOME1
2	HOME2
3	HOME3

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[Alarm ID setting]

Title setting

REMOTE No. : 1CAMERA No. : 1

ALARM No.	ID
1	AL1
2	AL2
3	AL3
4	AL4
5	AL5
6	AL6
7	AL7
8	AL8

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[Sector ID setting]

Title setting

REMOTE No. : 1CAMERA No. : 1

SECTOR No.	ID
1	N
2	NE
3	E
4	SE
5	S
6	SW
7	W
8	NW

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[AUX ID setting]

Title setting

REMOTE No. : 1CAMERA No. : 1

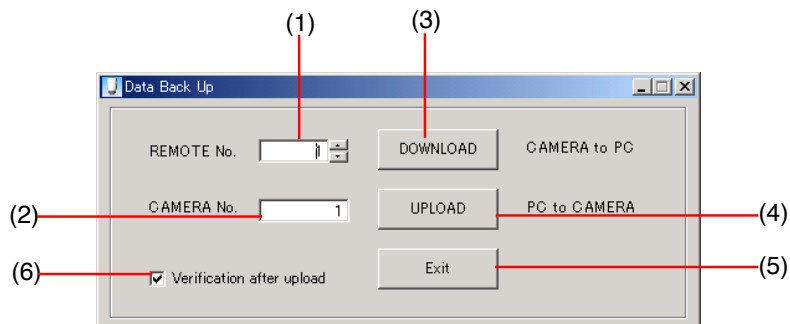
AUX No.	ID
1	AUX1
2	AUX2
3	AUX3
4	AUX4
5	AUX5
6	AUX6
7	AUX7
8	AUX8

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12. SETTINGS DATA BACKUP

[Data Backup]

Backs up the content of camera setting data to the PC, or transfers this stored data to cameras. Be sure to back up the setting data while the camera operation is stopped. However, data such as privacy masking, alarm log, date, and time cannot be backed up.



(1) Remote No.

Specifies the remote control address for this software (1–99).

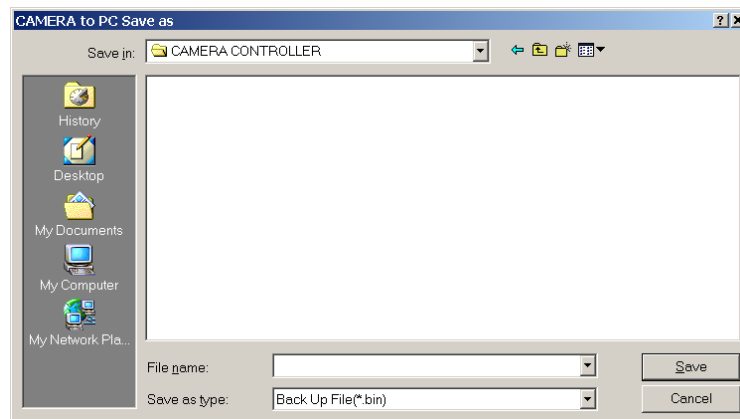
The up and down arrow buttons can be used to raise or lower the value, or the value can be entered directly.

(2) Camera No.

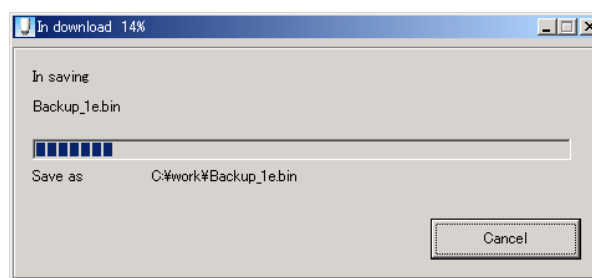
Specifies the number of the camera for which data is to be backed up (1–255).

(3) Download Button

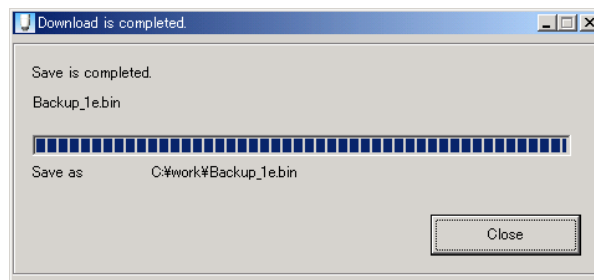
Reads camera settings data from the camera specified in the Camera No. box. Clicking the Download button causes the following type of screen to appear so that a file can be specified. If a reception error occurs, the downloading is stopped.



During data transmission, a progress bar like that shown below is displayed. During this time it is not possible to switch to other screens. Click the Cancel button to interrupt the download and close the dialog. With this software, all of the data transferred up until the point that the Cancel button was clicked will be saved to file. However, it is not possible to use the file.

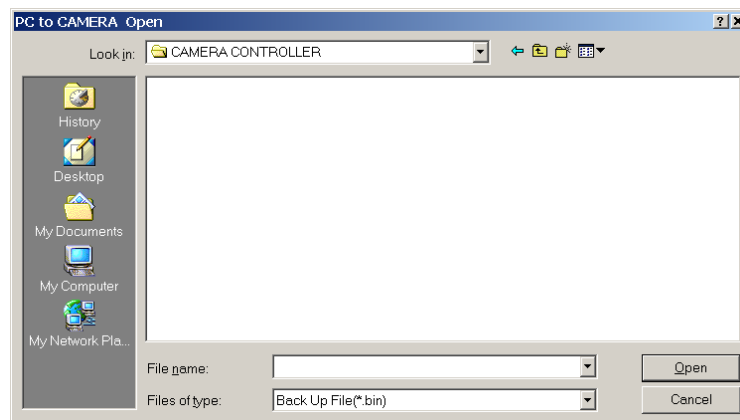


Clicking Close button to terminate the dialog.

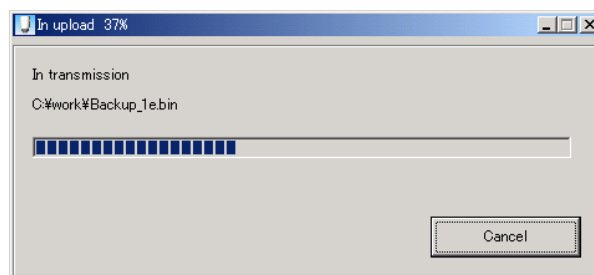


(4) Upload Button

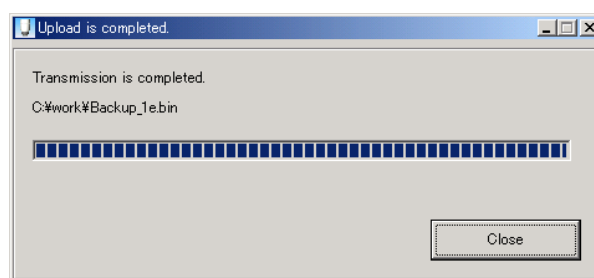
Writes camera settings data to the camera specified in the Camera No. box. Clicking the Upload button causes the following type of screen to appear so that a file can be specified. If a reception error occurs, the uploading is stopped.



During data transmission, a progress bar like that shown below is displayed. During this time it is not possible to switch to other screens. Click the Cancel button to interrupt the upload and close the dialog. All of the data transferred up until the point that the Cancel button was clicked will be written to the camera. However, in such cases the remaining titles on the camera side may be treated as indeterminate data, and therefore the backed up data may not match that of the destination camera.



Clicking Close button to terminate the dialog.



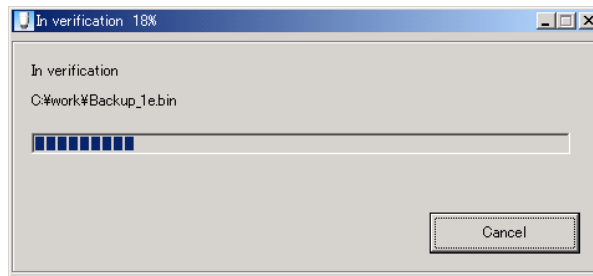
(5) Exit Button

Clicking this button exits the window.

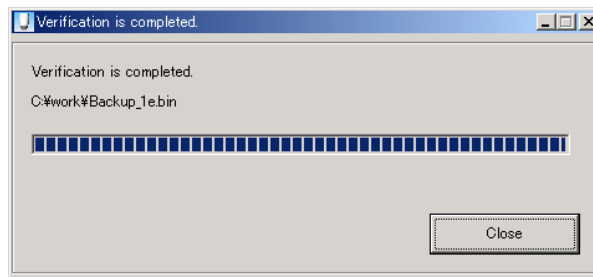
(6) Verify Upload

If this check box has been checked, when the upload is complete, the program then implements a download in order to verify the data. If this verification finds any errors, then an error message is displayed, the verification is stopped, and the dialog closes.

During data transmission, a progress bar like that shown below is displayed. During this time it is not possible to switch to other screens. Click the Cancel button to interrupt verification and close the dialog.



Clicking Close button to terminate the dialog.



(7) Power reactivation

Turn the power on again after the upload completion. Doing otherwise may result in the motion invalid, while the setting data are reflected.

13. CPU WRITER

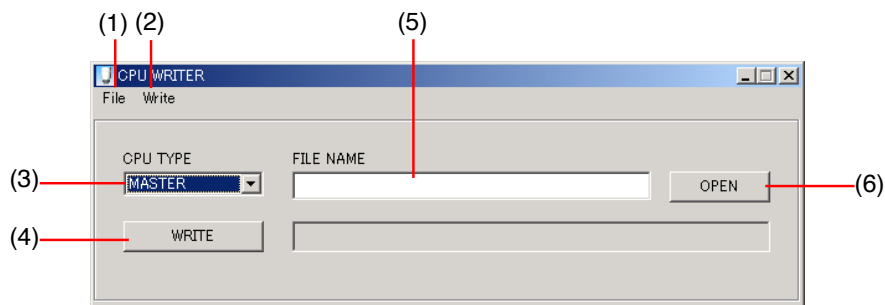
This screen is for updating combination camera firmware. While it is displayed, it is not possible to switch to other screens.

1. Turn off the camera power, then connect as shown in the "RS-232C Connection" example.
2. Detach the DIP switch base unit from the camera as directed in the installation manual and change the camera mode switches to the settings shown below. These switches will be different depending upon the firmware to be updated.

	DIP Switch (SW2)	DIP Switch (SW3)	DIP Switch (SW3)	COM Switch
Master	No.6 ON	No.1 ON	No.3 ON	ON
Slave	No.6 ON	No.2 ON	No.3 ON	ON

3. Reattach the base unit to the camera as directed in the installation manual and turn the power on. If the COM switch (COM SW) is set to ON, then the light next to the COM port (RJ45) will illuminate.
4. Use the screen shown below to update the firmware. While the firmware is being updated, the light next to the COM port (RJ45) will flash.

[CPU WRITER SCREEN]



(1) File (F)

- **Open**
Has the same effect as clicking the Open button.
- **Close**
Clears the file name and results in a state in which no file is selected.
- **Finish**

(2) Write (W)

- **Execute write.**
Writes the firmware.

(3) CPU Type

Selects the CPU to be updated.

(4) Write Button

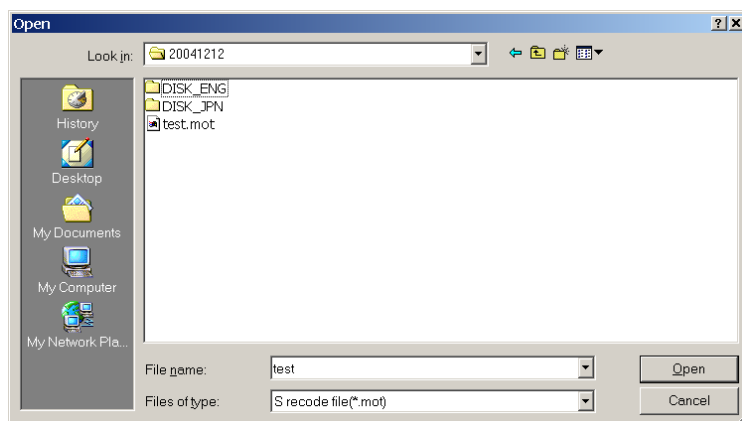
Clicking this button causes program data to be written to the CPU via the COM port.

(5) File Name

Designates the file data is to be written to.

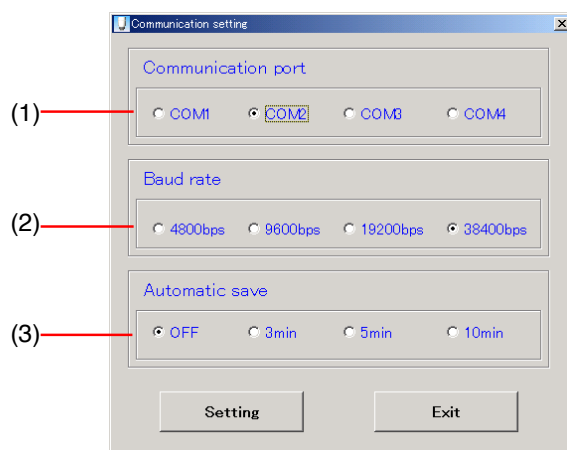
(6) Open

Clicking this button calls up the window below to be used to select a file data is written to. The selected file is displayed in the File Name box.



14. COMMUNICATION SETTINGS

[Communication setting screen]



(1) Communication Port

Performs Communication Port settings.

(2) Baud Rate

Performs Communication Rate settings.

(3) Automatic Save

Performs Automatic Save period of the Title setting screen.

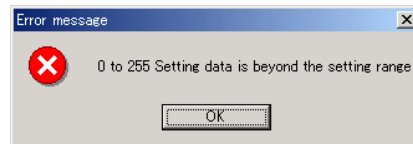
Character Indication

000	001	002	003	004	005	006	007	008	009	00A	00B	00C	00D	00E	00F	010	011	012	013
0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	H	I	J
014	015	016	017	018	019	01A	01B	01C	01D	01E	01F	020	021	022	023	024	025	026	027
K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Ä	Ö	Å	Ü
028	029	02A	02B	02C	02D	02E	02F	030	031	032	033	034	035	036	037	038	039	03A	03B
Ş	/	ä	ö	å	ü	μ	à	á	â	ã	è	é	ë	ê	ç	ì	í	î	ñ
03C	03D	03E	03F	040	041	042	043	044	045	046	047	048	049	04A	04B	04C	04D	04E	04F
ò	ó	õ	ù	ú	û	ô	ï	β	È	Ã	Ç	Æ	æ	Ø	ø	⌘	☞	♪	!
050	051	052	053	054	055	056	057	058	059	05A	05B	05C	05D	05E	05F	060	061	062	063
?	¿	↕	■	△	▽	▷	◁	►	◄	△	▽	【	】	()	<	>	[]
064	065	066	067	068	069	06A	06B	06C	06D	06E	06F	070	071	072	073	074	075	076	077
X	*	×	÷	+	−	=	∥	●	~	↑	↓	→	←	'	"	,	.	。	•
078	079	07A	07B	07C	07D	07E	07F	080	081	082	083	084	085	086	087	088	089	096	097
..	...	;	:	¥	\$	¢	£	%	#	&	SP	LP	EP	CH	TV	BS	CS	①	②
098	099	09A	09B	09C	09D	09E	09F	0FE	0FF	0F0	0F1	0F2	0F3	0F4	0F5	0F6	0F7	0F8	0FB
③	④	⑤	⑥	⑦	⑧	⑨	⑩	Г	г	—		└	┐	⊕	⊖	⊗	⊘	⊙	⊚
0FC	10A	10B	10C	10D	10E	10F	110	111	112	113	114	115	116	117	118	119	11A	11B	11C
■	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s
11D	11E	11F	120	121	122	123	124	125	126	127	128	129	12A	12B	12C	12D	12E	12F	130
t	u	v	w	x	y	z	Г	Д	Ж	И	Й	К	Л	П	Ф	Ц	Ч	Ш	Щ
131	132	133	134	135	136	137	138	139	13A	13B	13C	13D	13E	13F	140	141	142	143	144
Э	Ю	Я	б	в	г	д	ж	з	и	й	к	л	м	н	п	т	ф	ц	ч
145	146	147	148	149	14A	14B	14C	14D	14E	14F	150	151	152	153	154	155	156	157	158
ш	щ	ъ	ы	ь	э	ю	я	À	Á	Â	Ã	Ä	Å	Æ	Ç	Ð	Ñ	Ò	Ó
159	15A	15B	15C	15D	15E	15F	160	161	162	163	164	165	166	167	168	169	16A	16B	16C
Ť	Ň	Ě	Š	Œ	Ž	Ž	İ	...	§	Ch	ch	Ц	Ц	Ц	Ц	rr	ck	tz	É
16D	16E	16F	170	171	172	173	174	175	176	177	178	179	17A	17B	17C	17D	17E	185	186
À	Á	Â	Û	Û	Î	Ì	Í	Î	Ò	Õ	Ú	Б	З	У	Ъ	Ы	Ь	Т	А
187	188	189	18A	18B	18C	18D	18E	18F	190	191	192	193	194	195	196	197	198	199	19A
☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
19B	19C	19D	19E	19F															
6	7	8	9	0															

15. ERROR MESSAGES

1. Numeric Keypad Entry

Entering a numeric value via the numeric keypad outside a function's permissible setting range causes an error message to be displayed when the operation is attempted. Click OK to return to the value entry screen and re-enter a recognizable value.



Camera:	0 – 255
Position:	0 – 255
Trace:	1 – 2
Tour:	1 – 16
Trace Recording:	1 – 2
Trace Deletion:	1 – 2
Position Setting:	0 – 255
Position Deletion:	0 – 255

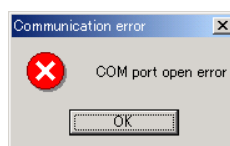
2. Receiving Data

An error message is displayed when there is an error in data received from the camera during operation. Click OK to be able to resume operation.



3. Line Open

An error message is displayed when the COM port selected in the communication settings is closed during operation. Click OK to be able to resume operation. (Note: Clicking OK does not open the line). It is possible that another application is using the COM port in question and needs to be quit in order to make the port available.



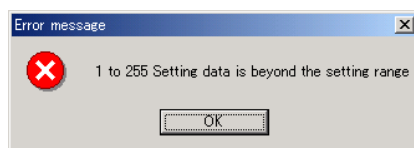
4. "Busy" Received

An error message is displayed when, after a command is transmitted from the camera during operation, the received data contains "BUSY" information. Click OK to be able to resume command transmission operation.



5. Camera No.

An error message is displayed if operation is attempted while a camera number outside the range 1–255 is set. Click OK to return to the value entry screen and re-enter a recognizable value.



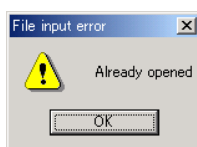
6. Receiving Timeout

An error message is displayed and transmission is interrupted if a timeout occurs during title setting. Click OK to be able to resume operation.



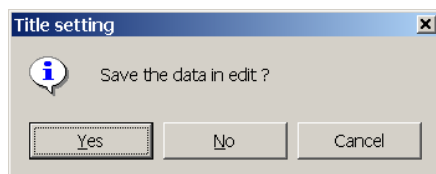
7. Duplicated File Open

An error message is displayed if multiple title setting screens attempt to open the same file. Click OK causes the file in question to be de-selected



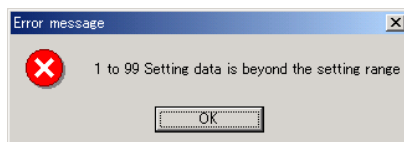
8. Edit Sheet

A message is displayed if operations including Create New File, Open, or Close are attempted while an ID entry sheet is being edited. A similar message is displayed if these are attempted while editing camera numbers. Clicking Yes will allow the current file to be overwritten or saved under a different name. Clicking No prevents saving. Clicking Cancel returns the screen to ID entry sheet editing.



9. Remote No.

An error message is displayed if operation is attempted while a remote number outside the range 1–99 is set. Click OK to return to the value entry screen and re-enter a recognizable value.



10. Verify

An error message is displayed and transmission is interrupted if verification discovers an error. Click OK to be able to resume UPLOAD/ DOWNLOAD operation.



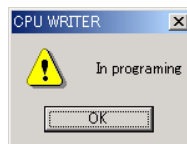
11. Designate File

An error message is displayed if a file selected for uploading is of insufficient size. Clicking OK causes the selected file in question to be undesignated.



12. CPU Writing Check

An error message is displayed if an attempt is made to close the screen while CPU Writer is still writing. Clicking OK causes the writing to be continued.



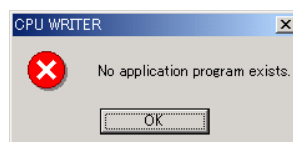
13. No Application File Designated

An error message is displayed if Write is clicked without designating a file with the CPU Writer (i.e. the File Name box has been left blank). Clicking OK makes it possible to start CPU Writer.



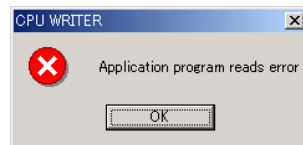
14. Application File Selection Check

An error message is displayed if Write is clicked when the file designated with the CPU Writer does not exist (i.e. the designated filename is not found). Clicking OK makes it possible to start CPU Writer.



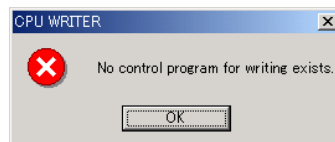
15. Selected Application File Reading

An error message is displayed if a file is designated with the CPU Writer and its file format is incorrect. Clicking OK makes it possible to start CPU Writer.



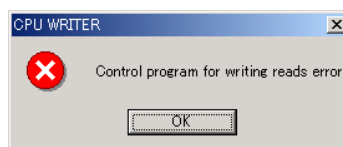
16. CPU Write Control Program File Selection

An error message is displayed if Write is clicked when the CPU type for which the write control program file does not exist is selected with the CPU Writer. Clicking OK makes it possible to start CPU Writer.



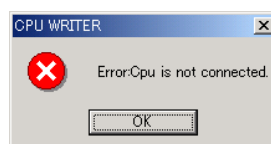
17. Selected CPU Write Control Program File Reading

An error message is displayed if the CPU Type is selected with the CPU Writer and its write control program file's file format is incorrect. Clicking OK makes it possible to start CPU Writer.



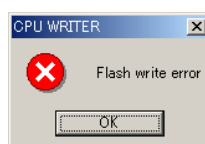
18. Unconnected CPU Check

An error message is displayed if Write is clicked when the CPU specified with the CPU Writer is not available for writing (e.g. when the camera is turned off). Clicking OK makes it possible to start CPU Writer.



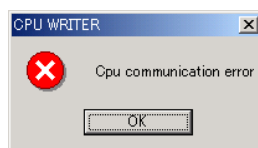
19. CPU Flash Memory Writing

An error message is displayed if data is not correctly written to the CPU flash memory with the CPU writer. Clicking OK makes it possible to start CPU Writer.



20. CPU Communication

An error message is displayed if a communication error (timeout, etc.) occurs while writing data to the specified CPU with the CPU Writer. Clicking OK makes it possible to start CPU Writer.



21. Other Screen Activation In Progress

An error message is displayed if "CPU WRITER" is clicked in the menu screen while a screen other than "CPU WRITER" (except the menu screen) is being activated. Clicking OK makes it possible to click "CPU WRITER" in the menu screen.



22. Setting Value Change Check

A message is displayed if settings values are changed in the communication settings screen and the screen is closed without first clicking the Set button.

