

This section contains technical information about the PV Unit.

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■ Date Formats

The following describes the date formats that can be set for the system (page 169).

Format	Description
M/D/Y	Month/Day/Year. Example: Jan/31/2000
D/M/Y	Day/Month/Year. Example: 31/Jan/2000
Y/M/D	Year/Month/Day. Example: 2000/1/31

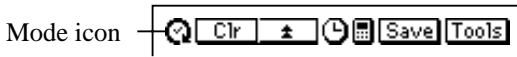
■ Time Formats









The following describes the time formats that can be set for the system (page 169).

Format	Description
12-hour	Represents time in two blocks, from midnight to 11:59am, and from noon to 11:59pm.
24-hour	Represents time as a single block, from 0:00 to 23:59. This format is often referred to as “military time.”

■ Tool Bars

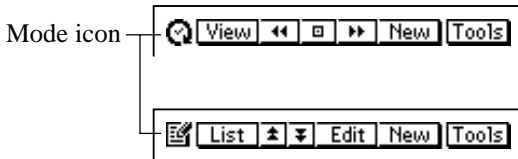
The PV Unit uses standard tool bars for data input and display. The following shows typical examples of these toolbars, and describes the items that can appear in each.

Data Input Tool Bar

Button	Description
Mode icon	Indicates the mode you are currently in.
	Clears all characters in the entry (field) where the cursor is located. In the Contacts Mode, pressing this button clears the data from all the input fields for the data item (record) you are inputting.
	Pastes the current date and time as being kept by the main clock at the current cursor location.
	Displays a calculator.
	Advances to the next screen.
	Returns to the previous screen.
	Saves input data and closes the input screen.
	In the Quick-Memo Mode, tapping this button changes to the list view.
	Displays the pop up tool screen.

- The above table shows all the buttons that can possibly appear in a data input tool bar. Depending on mode and other factors, some of the tools shown above may not be included in a data input tool bar.

Data Display Tool Bar



Button	Description
Mode icon	Indicates the mode you are currently in.
	Displays a menu of other views that can be used to display data.
	In the Scheduler and Expense Manager modes, jumps to today's date as kept by the PV Unit's built-in clock.
	Advances to the next item.
	Returns to the previous item.
	Displays the new data input screen.
	Returns to the list screen from a Contacts, Memo, Expense Manager, and Quick-Memo mode data screen.
	Changes to the data editing screen for the current data item.
	Displays the pop up tool screen.

- The above table shows all the buttons that can possibly appear in a data display tool bar. Depending on mode and other factors, some of the tools shown above may not be included in a data display tool bar.

■ Scheduler Mode Alarms

- When you set an alarm time for a Schedule, To Do, or Reminder item, an alarm sounds for about 20 seconds when the alarm time is reached on the date that is also specified for the data item.
- Alarms may fail to sound when battery power is low.
- If the alarm time is reached for a data item stored in the secret memory area, the message **Check the secret memory area!** appears on the display. In this case you must enter the secret memory area to see what the alarm is for.
- Alarms are deleted automatically after the Scheduler alarm time is passed. You cannot set an alarm time for a date and time that are already passed.
- You cannot schedule two alarms for the same time on the same day.
- Up to 100 Scheduler alarm times can be set at one time.

Input Limits

The following table shows the maximum number of characters that can be input into various fields.

Mode	Entry (Field)	Maximum Number of Characters
Schedule	Description	2,046
To Do	Description	2,046
	Category	14
Reminder	Description	2,046
Contacts	–	2,036
	Category	14
	Item	12
Memo	Description	2,048
Expense Manager	Amount	8
	Payment Type	14
	Expense Type	14
	Description	2,008
Search	–	12
Password	–	12
Clipboard	–	2,048

Resetting the PV Unit

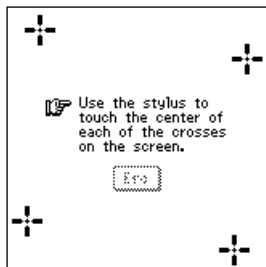
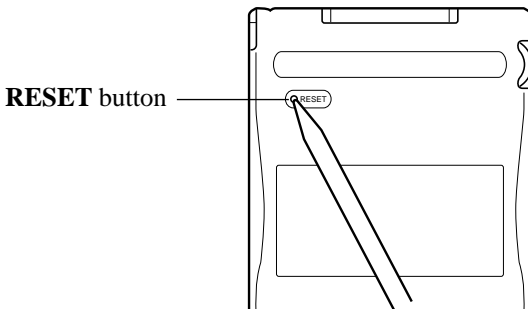
Warning!

The following procedure erases all data stored in the memory of the PV Unit. Perform this operation only when you want to delete all data and initialize the settings of the PV Unit.

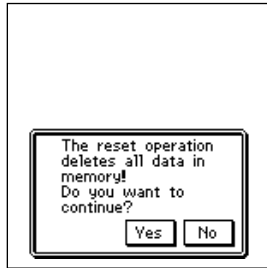
Remember - you should always keep copies of important data by writing it down, or by transferring it to a personal computer.

To reset the PV Unit

1. Open the cover and touch the screen with the stylus to turn on power.
2. Use the stylus to press the **RESET** button on the back of the PV Unit.



- If the above does not appear on the display when you press the **RESET** button, slide the battery switch to the **REPLACE BATTERIES** position and remove the battery compartment cover. Use the stylus to press the **P** button and then replace the battery compartment cover. Slide the battery switch back to the **NORMAL OPERATION** position and then press the **RESET** button.
3. Tap the center of each of the four cross marks as they appear on the screen.
 - The contrast adjustment screen appears next.
 4. Tap ◀ or ▶ to adjust the contrast of the display, and then tap **OK**.



5. In response to the message that appears, tap **Yes** to reset the PV Unit and clear all memory contents, or **No** to abort the reset procedure without doing anything.
6. If you tapped **Yes** in the above step, a second confirmation message appears. Tap **Yes** to reset the PV Unit and clear all memory contents, or **No** to abort the reset procedure without doing anything.
 - Tapping **Yes** in the above step starts the actual reset procedure.
7. What happens after the reset procedure is complete depends on what model you are using.
 - On the PV-200A or PV-400A, the pop up tool screen appears. Continue from step 9.
 - On the PV-250X and PV-450X, the system language selection screen appears. Continue from step 8.
8. Tap the button next to the language you want to select as the system language, and then tap **Set** to change to the pop up tool screen.

9. Check the time setting and correct it if necessary (page 166).
- Following are the initial settings of the PV Unit after you perform the RESET operation.

Main clock: Clock 1
 London
 Jan/1/2000
 12:00 am
 12-hour format

Clock 2: New York

Daily Alarm: 12:00 pm

Sound: Daily Alarm off, all others on

Character input: CAPS off

Euro Conversion Rate Presets

Country	Currency Code	Rate (for 1 euro)	Decimal Places
Germany	DEM	1.95583	2
France	FRF	6.55957	2
Italy	ITL	1936.27	0
Spain	ESP	166.386	0
Netherlands	NLG	2.20371	2
Belgium	BEF	40.3399	0
Portugal	PTE	200.482	0
Austria	ATS	13.7603	2
Finland	FIM	5.94573	2
Ireland	IEP	0.787564	2
Luxembourg	LUF	40.3399	0

Storage Capacity

The memory capacity of the PV-400A/PV-450X is 4-Mbyte (2-Mbyte for the PV-200A/PV-250X). The following shows the number of items that can be stored.

Scheduler

Approximately 32,000 items (23,420 for the PV-200A/PV-250X) with 20-character description.

Approximately 27,320 items (11,710 for the PV-200A/PV-250X) with 60-character description.

Contacts

Approximately 32,000 items (23,420 for the PV-200A/PV-250X), under the following conditions.

- 8-character name
- 10-character home phone number
- 10-character home fax number
- 20-character home address

Approximately 18,210 items (7,800 for the PV-200A/PV-250X), under the following conditions.

- 8-character name
- 10-character business phone number
- 10-character business fax number
- 40-character business address
- 20-character company name
- 20-character department
- 20-character position

Memo

Approximately 3,210 items (1,370 for the PV-200A/PV-250X), 1,024-character memos.

Expense Manager

Approximately 27,320 items (11,710 for the PV-200A/PV-250X), under the following conditions.

- 10-character description
- Expense type and payment type set

Quick-Memo

Approximately 1,300 items (550 for the PV-200A/PV-250X).

Auto Sort Sequence

The following table shows the sequence used for alphabetical data sorts.

1	(space)	34	A	67	b	100	Ú	133	Ã	166	²
2	!	35	B	68	c	101	À	134	Õ	167	³
3	”	36	C	69	d	102	È	135	Ñ	168	m
4	#	37	D	70	e	103	Ì	136	IJ	169	$\frac{1}{2}$
5	\$	38	E	71	f	104	Ò	137	Æ	170	$\frac{1}{4}$
6	%	39	F	72	g	105	Ù	138	Ç	171	$\frac{3}{4}$
7	&	40	G	73	h	106	Â	139	À	172	f
8	,	41	H	74	i	107	Ê	140	F	173	|
9	(	42	I	75	j	108	Î	141	ß	174	Fr
10	)	43	J	76	k	109	Ô	142	¶	175	<
11	*	44	K	77	l	110	Û	143	ç	176	fi
12	+	45	L	78	m	111	ı	144	ä	177	√
13	,	46	M	79	n	112	á	145	ë	178	§
14	-	47	N	80	o	113	é	146	ï	179	>
15	.	48	O	81	p	114	í	147	ö	180	≪
16	/	49	P	82	q	115	ó	148	ü	181	fl
17	0	50	Q	83	r	116	ú	149	ã	182	-
18	1	51	R	84	s	117	à	150	õ	183	ÿ
19	2	52	S	85	t	118	è	151	ñ	184	®
20	3	53	T	86	u	119	ì	152	ij	185	«
21	4	54	U	87	v	120	ò	153	æ	186	»
22	5	55	V	88	w	121	ù	154	ç	187	©
23	6	56	W	89	x	122	â	155	å	188	¤
24	7	57	X	90	y	123	ê	156	f	189	¶
25	8	58	Y	91	z	124	î	157	£	190	Ð
26	9	59	Z	92	{	125	ô	158	¥	191	ı
27	:	60	[	93	ı	126	û	159	W	192	Þ
28	;	61	\	94	}	127	ı	160	W ^a	193	þ
29	<	62	]	95	~	128	Ä	161	°	194	ý
30	=	63	^	96	Á	129	Ë	162	×	195	Ý
31	>	64	—	97	É	130	Ï	163	÷	196	•
32	?	65	、	98	Í	131	Ö	164	-	197	ı
33	@	66	a	99	Ó	132	Ü	165		198	€

Message Table

100 alarms are already set!	
Cause: The maximum allowable limit of 100 alarms are already set.	Action: Wait until some of the existing alarms are used, or delete alarms you do not need to make room for new ones.
All dates you select must be within the same year.	
Cause: You are trying to highlight dates for a period that spans multiple years.	Action: The range of dates when specifying highlights must be within one single year. Change your date range specification so it is within the same year.
Batteries are getting weak! Replace them as instructed in the User's Guide.	
Cause: Battery power is getting weak.	Action: Replace batteries as explained on page 16 of this User's Guide.
Check the secret memory area!	
Cause: An alarm time has been reached for secret memory area data.	Action: Enter the secret memory area to view details about the alarm.
Check your home time setting and correct it if necessary!	
Cause: This message appears after an operation that can affect your time settings.	Action: Since all alarms and other timekeeping related operations are based on your time setting, be sure to check it and make corrections as necessary whenever this message appears.

Communication error!	
Cause: An error occurred during data communication.	Action: Correct the cause of the error and try again.
Data error! Consult your User's Guide for correct procedure.	
Cause: An internal data error has corrupted memory data.	Action: See page 11 of this User's Guide for the correct procedure.
Data error! Do you want to view data before resetting?	
Cause: A data error requires that you perform the RESET operation, which deletes all data stored in memory and returns all settings to their initial defaults.	Action: Tap Yes to close the dialog box. You can then recall data stored in memory to make written copies before it is cleared by the RESET operation. Tap No to go immediately into the RESET operation, which will delete all data stored in memory.
Data item not found!	
Cause: None of the data in memory matches the characters you specified for a search operation.	Action: Check the characters you specified to make sure you did not make a mistake, or try searching for different characters.
Input all required data.	
Cause: You did not input all of the minimum data required to store the data item.	Action: Input the minimum required entries for the mode where you are inputting new data. Check the minimum requirements and input the required data.

Make sure you are inputting the date correctly.	
Cause: You are trying to use invalid values for a date.	Action: Input the date correctly.
Make sure you are inputting the time correctly.	
Cause: You are inputting invalid values for a time setting.	Action: Input proper values for the time.
Memory is full!	
Cause: You are trying to input data or receive data while memory is already full.	Action: First try performing the memory management operation to see if more memory can be made available. If this message still appears, it means that memory is really full. Delete data you no longer need to make room for more data.
That alarm time is already passed!	
Cause: The time you are trying to set for an alarm is already passed.	Action: This is merely a warning message that appears for about one second. After that, the dialog box closes and the data is stored without the alarm.
That alarm time is already used!	
Cause: The time you are setting for an alarm is already used.	Action: Change the alarm time to one that is not yet used.

That date is outside of the specified period.	
Cause: You are specifying a Reminder date that is outside the period specified by the start date and end date.	Action: Check the specified period and set the date correctly.
That name is already used!	
Cause: You are trying to assign a name that is already used when naming a payment type or expense type.	Action: Use a different name.
The next step starts data deletion and unit reset! Do you want to continue?	
Cause: This is the final warning before execution of the RESET operation, which deletes all data stored in memory and returns all settings to their initial defaults.	Action: Tap Yes to execute the RESET operation and delete all data, or No to close the dialog box without deleting anything.
The reset operation deletes all data in memory! Do you want to continue?	
Cause: You are about to perform the RESET operation, which deletes all data stored in memory and returns all settings to their initial defaults.	Action: Tap Yes to perform the RESET operation and delete all data, or No to close the dialog box without deleting anything.

You cannot specify more than 60 repeats!	
Cause: You specified more than 60 repeats for a Reminder data item.	Action: Shorten the specified period of the Reminder item to reduce the number of repeats.
Wrong password!	
Cause: The password you input while trying to enter the secret memory area does not match the password that is registered.	Action: Input the correct password.

Troubleshooting

Power Supply

Problem: The PV Unit does not operate normally after batteries are replaced.

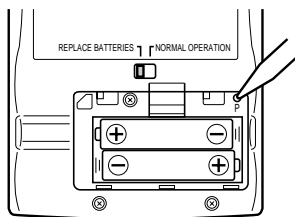
Possible Cause

Problem with PV Unit operational settings

Recommended Action

Perform the following procedure.

1. Slide the battery switch to the **REPLACE BATTERIES** position, and remove the battery compartment cover.
2. Use the stylus to press the **P** button inside the battery compartment.



3. Replace the battery compartment cover, and then slide the battery switch back to **NORMAL OPERATION**.
4. Use the stylus to press the **RESET** button on the back of the unit. See “To reset the PV Unit” for details on the reset procedure.
5. In response to the message that appears after you calibrate the touch screen and adjust the display contrast, tap **No**.
 - Make sure you do not tap **Yes**. Doing so deletes all data stored in memory and returns all settings to their initial defaults.

Problem: Nothing appears on the display when power is turned on.

Possible Causes

1. The battery switch on the back of the unit is set to REPLACE BATTERIES.
2. Battery power is low.
3. Display contrast is too light.

Recommended Actions

1. Slide the battery switch to NORMAL OPERATION.
2. Replace batteries (page 16).
3. Adjust display contrast (page 171).

Display Contrast

Problem: Display is totally black.

Possible Cause

Display contrast is too dark.

Recommended Action

Adjust display contrast (page 171).

Key Tone

Problem: The PV unit does not beep when you perform an operation.

Possible Cause

The key tone is turned off.

Recommended Action

Turn on the key tone (page 167).

Operation

Problem: Nothing happens when you tap the screen.	
Possible Causes <ol style="list-style-type: none">1. Battery power is low.2. Exposure of the PV Unit to some external condition is interfering with proper operation.3. The touch screen is damaged.	Recommended Actions <ol style="list-style-type: none">1. Replace batteries (page 16).2. Press the P button and then the RESET button. See procedure above.3. The touch screen must be replaced. Contact your nearest CASIO dealer to have the touch screen replaced. You will be charged for this replacement.
Problem: Power suddenly turns off or contrast adjustment screen suddenly appears.	
Possible Cause <p>Battery power is low.</p>	Recommended Action <p>Replace batteries (page 16).</p>
Problem: The functions or cursor movement performed does not match the location where you tap on the screen.	
Possible Cause <p>The touch screen needs to be calibrated.</p>	Recommended Action <p>Perform the procedure under “Calibrating the Touch Screen” on page 171.</p>

Data Communication

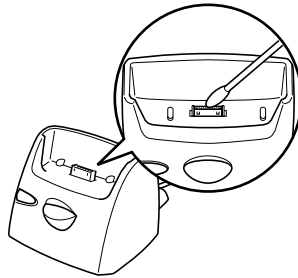
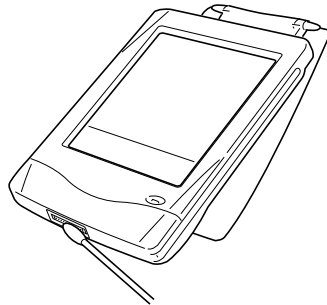
Problem: You are having problems performing data communication.

Possible Causes

1. Equipment is not connected correctly.
2. Cradle contacts are dirty.

Recommended Actions

1. Carefully follow the procedures on page 122 and connect the equipment correctly.
2. Clean the contacts on the bottom of the PV Unit and inside the cradle by wiping them with a cotton swab.



- If any of the above does not restore your PV Unit to normal operation, contact your nearest CASIO dealer for servicing.

■ Specifications

Model: PV-200A/PV-250X/PV-400A/PV-450X

Main Modes:

Scheduler (Schedule, To Do, Reminder); Contacts; Memo; Expense Manager; Currency Converter; Quick-Memo; Pop Up Tools (Clock, Calendar, Calculator); Game

Data storage:

Storage and recall of Schedule, To Do, Reminder, Contacts, Memo, Expense, Quick-Memo data; calendar display; secret memory area; editing; memory status display

Clock:

World Time; Schedule alarm; To Do alarm; Reminder alarm; Daily alarm; accuracy under normal temperatures: -3 seconds per day

Calculations:

12-digit arithmetic calculations; arithmetic constants (+/-/·/ ,); independent memory; percentages; square roots; 24-digit approximations; other mixed calculations

General:

Display: 160 · 160 dots

Memory capacity: 2MB (PV-200A/PV-250X)
4MB (PV-400A/PV-450X)

Main component: LSI

Power supply: Two AAA-size alkaline batteries (Type: LR03 (AM4))

Battery life: (Ambient Temperature: 20 C)

- Approximately 160 hours of continuous display only in the Contacts Mode
- Approximately 110 hours with 55 minutes of continuous display only and 5 minutes of processing operation per hour in the Contacts Mode
- Approximately 80 hours with 55 minutes of continuous display only and 5 minutes of processing operation per hour in the Contacts Mode, plus 3 minutes of backlight operation per hour during continuous display only period

Power consumption: 0.3W

Auto power off: Approximately 6 minutes after last key operation

Operating temperature: 0 C ~ 40 C (32 F ~ 104 F)

Dimensions:

Unfolded: 13.8H · 81.5W · 125D mm ($\frac{1}{2}$ "H · $3\frac{1}{4}$ "W · $4\frac{7}{8}$ "D)

Folded: 15.6H · 81.5W · 128D mm ($\frac{5}{8}$ "H · $3\frac{1}{4}$ "W · 5"D)

Weight: Approximately 145 g (5.1 oz) including batteries

