Chapter

13

Technical Reference

This section contains technical information about the PV Unit.

13

■ Date Formats

The following describes the date formats that can be set for the system (page 159).

Format	Description
M/D/Y	Month/Day/Year. Example: Jan/31/1999
D/M/Y	Day/Month/Year. Example: 31/Jan/1999
Y/M/D	Year/Month/Day. Example: 1999/1/31

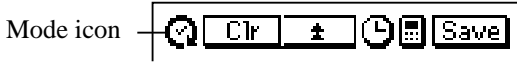# ■ Time Formats

The following describes the time formats that can be set for the system (page 159).

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

Mode icon ⎯ | ⊘ | Clr | ± | ⊙ | ▦ | Save |

Button	Description
Mode icon	Indicates the mode you are currently in. Tapping the mode icon displays the pop up tool screen.
Clr	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.
Save	Saves input data and closes the input screen.
List	In the Quick-Memo Mode, tapping this button changes to the list view.

- 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
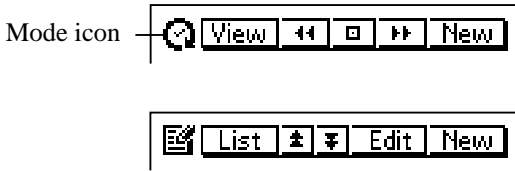
Mode icon ─── View ◄◄ □ ►► New

 List ▲ ▼ Edit New

Button	Description
Mode icon	Indicates the mode you are currently in. Tapping the mode icon displays the pop up tool screen.
View	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.
New	Displays the new data input screen.
List	Returns to the list screen from a Contacts, Memo, Expense Manager, and Quick-Memo mode data screen.
Edit	Changes to the data editing screen for the current data item.

• 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.

■ Keyboard Formats

The PV Unit provides you with a selection of keyboard formats.

QWERTY

- This format is automatically selected when English, Spanish, or Italian is set as the system language.

AZERTY

- This format is automatically selected when French is set as the system language.

QWERTZ

- This format is automatically selected when German is set as the system language.

■ 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.

RESET button

Use the stylus to
touch the center of
each of the crosses
on the screen.
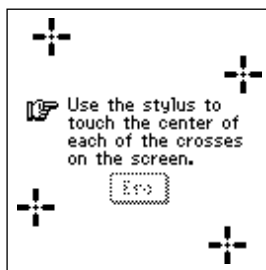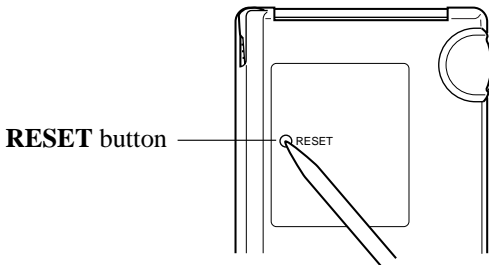
- If the above does not appear on the display when you press the **RESET** button, slide the battery switch to the REPLACE BATTERIES position and remove the battery compartment cover. Use the stylus to press the **P** button and then replace the battery compartment cover. Slide the battery switch back 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**.

```
The reset operation
deletes all data in
memory!
Do you want to
continue?
        Yes    No
```
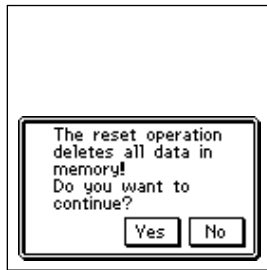
5. In response to the message that appears, tap **Yes** to reset the PV Unit and clear all memory contents, or **No** to abort the reset procedure without doing anything.

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. After the reset procedure is complete, tap the button next to the language you want to select as the system language.

8. Tap **Set** to change to the pop up tool screen.

9. Check the time setting and correct it if necessary (page 156).
• Following are the initial settings of the PV Unit after you perform the RESET operation.

Main clock:	Clock 1
	London
	Jan/1/1999
	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

■ Storage Capacity

The 2-Mbyte memory capacity of the PV-200 (1-Mbyte for the PV-100) includes a 1,499,136-byte user area (687,104 bytes for the PV-100). The following shows examples of what this means for the storage of data in each mode.

Scheduler

Approximately 24,400 items (10,736 for the PV-100) with 20-character description

Approximately 12,200 items (5,368 for the PV-100) with 60-character description

Contacts

Approximately 24,400 items (10,736 for the PV-100), under the following conditions.

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

Approximately 8,133 items (3,578 for the PV-100), 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 1,435 items (631 for the PV-100), 1,024-character memos.

Expense Manager

Approximately 12,200 items (5,367 for the PV-100), under the following conditions.

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

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	½
5	$	38	E	71	f	104	Ò	137	Æ	170	¼
6	%	39	F	72	g	105	Ù	138	Ç	171	¾
7	&	40	G	73	h	106	Â	139	Å	172	ƒ
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	¢	176	fi
12	+	45	L	78	m	111	¡	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	ƒ	189	¶
25	8	58	Y	91	z	124	î	157	£	190	Ð
26	9	59	Z	92	{	125	ô	158	¥	191	¹
27	:	60	[	93	¦	126	û	159	W	192	Þ
28	;	61	\	94	}	127	¿	160	ª	193	þ
29	<	62	]	95	~	128	Ä	161	º	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	¹
33	@	66	a	99	Ó	132	Ü	165			

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 to 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

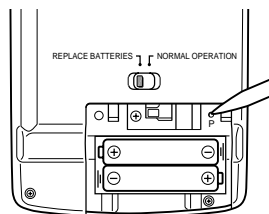| **Problem: The PV Unit does not operate normally after batteries are replaced.** |
|---|

Possible Cause	Recommended Action
Problem with PV Unit operational settings	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	**Recommended Actions**
1. The battery switch on the back of the unit is set to REPLACE BATTERIES.	1. Slide the battery switch to NORMAL OPERATION.
2. Battery power is low.	2. Replace batteries (page 16).
3. Display contrast is too light.	3. Adjust display contrast (page 161).

Display Contrast

Problem: Display is totally black.	
Possible Cause	**Recommended Action**
Display contrast is too dark.	Adjust display contrast (page 161).

Key Tone

Problem: The PV unit does not beep when you perform an operation.	
Possible Cause	**Recommended Action**
The key tone is turned off.	Turn on the key tone (page 157).

Operation

| Problem: Nothing happens when you tap the screen.	
Possible Causes 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** 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 Battery power is low.	**Recommended Action** Replace batteries (page 16).
Problem: The functions or cursor movement performed does not match the location where you tap on the screen.	
Possible Cause The touch screen needs to be calibrated.	**Recommended Action** Perform the procedure under "Calibrating the Touch Screen" on page 161.

Data Communication

Problem: You are having problems performing data communication.

Possible Causes	Recommended Actions
1. Equipment is not connected correctly.	1. Carefully follow the procedures on page 112 and connect the equipment correctly.
2. Cradle contacts are dirty.	2. Clean the contacts on the bottom of the PV Unit and inside the cradle by wiping them with a cotton swab.
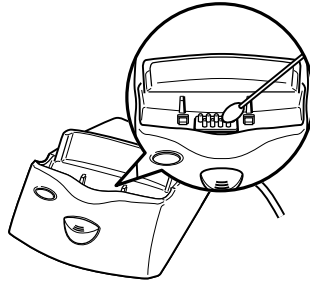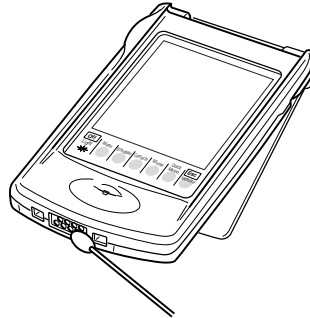
• If any of the above does not restore your PV Unit to normal operation, contact your nearest CASIO dealer for servicing.

■ Specifications

Model: PV-100/PV-200

Main Modes:
Scheduler (Schedule, To Do, Reminder); Contacts; Memo; Expense Manager; Quick-Memo; Pop Up Tools (Clock, Calendar, Calculator)

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: 128 · 128 dots
Memory capacity: 1MB (PV-100)
2MB (PV-200)
Main component: LSI
Power supply: Two AAA-size alkaline batteries (Type: LR03 (AM4))

Battery life: (Ambient Temperature: 20 C)
  PV-100: • Approximately 100 hours of continuous display only in the Contacts Mode
     • Approximately 70 hours with 55 minutes of continuous display only and 5 minutes of processing operation per hour in the Contacts Mode
  PV-200: • Approximately 100 hours of continuous display only in the Contacts Mode
     • Approximately 70 hours with 55 minutes of continuous display only and 5 minutes of processing operation per hour in the Contacts Mode
     • Approximately 60 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:
  PV-100: 0.3W
  PV-200: 0.4W

Auto power off: Approximately 6 minutes after last key operation
Operating temperature: 0 C ~ 40 C (32 F ~ 104 F)
Dimensions:
  Unfolded: 14.2H · 79W · 123.5D mm ($^1/_2$"H · $3^1/_8$"W · $4^7/_8$"D)
  Folded: 14.8H · 79W · 123.5D mm ($^5/_8$"H · $3^1/_8$"W · $4^7/_8$"D)
Weight: Approximately 135 g (4.8 oz) including batteries