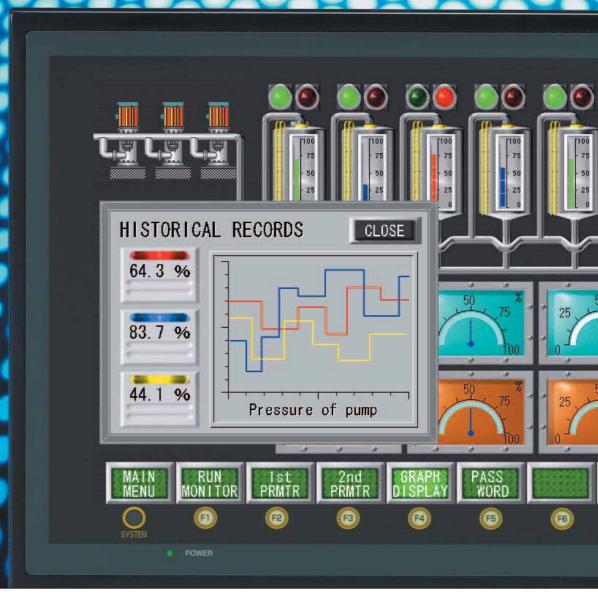
Panasonic ideas for life

Programmable Display

GV Series

Reborn with new features and support for even large-scale production equipment!



GV Series Selector Chart

Item						
Product name	GV42C	GV52C	GV52S	GV62S		
Screen size	7.7 inch	10.4	inch	12.1 inch		
Display	STN color LCD		TFT color LCD			
Resolution (W × H dots)	640 × 48	80 (VGA)	800 × 60	0 (SVGA)		
Display color	128 c	colors	32,768 colors ar	nd 16 blink colors		
Backlighting		Cold cath	node tube			
Replacement backlight		Pos	sible			
Touch key		Analo	g type			
Touch key resolution (W × H)	1024 × 1024					
Function switch	8 pcs.					
True-type font display		Avai	lable			
Multi-language	English, European, Simplified Chinese, Korean and Japanese					
Compatible PLCs		Matsushita Electric Works, Mitsubishi, Omron, Siemens, Yokogawa, Toshiba Machine, A-B, Modicon and general-purpose RS232C				
Network		ernet ely, used AIGV833)		ernet omes standard)		
Clock functions		Inte	rnal			
Clock data backup		Lithium "co	oin" battery			
Memory expansion		Option (Memory ex	xpansion cassette)			
Printer interface	Centronics	compliant, bar code p	rinter available, half p	oitch 20 pins		
CE marking			lable pes available.)			
UL/cUL			lable pes available.)			
Screen creation tool		Terminal GVWI	N for GV series			
Through function						
Macro function		Avai	lable			
Dimensions (W × H × D mm inch)	233.0 × 178.0 × 66.1 9.173 × 7.008 × 2.602		31.0 × 72.0 094 × 2.835	326.4 × 259.6 × 72.0 12.850 × 10.220 × 2.835		
Panel cut dimensions (W × H mm inch)	$220.5 \times 165.5 \left(\substack{+0.5 \\ -0}\right)$ 8.681 × 6.516 $\left(\substack{+0.20 \\ -0}\right)$	289.0 × 2	216.2 (+0.5) 3.512 (+0.020)	$313.0 \times 246.2 \begin{pmatrix} +0.5 \\ -0 \end{pmatrix}$ $12.323 \times 9.693 \begin{pmatrix} +0.020 \\ -0 \end{pmatrix}$		
Body color	3.001 × 0.010 (₋₀ ·)		ack	12.020 \ 9.030 (-0.03)		
Operating voltage	24 V DC		30. 30 to 240 V AC/24 V Ε	OC		
Operating voitage	24 V DO	10	00 10 240 V AO/24 V L	,		

Series

The features you need, simple and easy to use.

Supports even large-scale production equipment.



CE/UL/cUL













CE/UL/cUL

GV52S











CE/UL/cUL

GV52C











CE/UL/cUL

GV62S









Large Programmable Display \mathbf{GV} Series



Being able to display 32,768 colors, all sorts of clear and bright displays are possible. The high resolution display of JPEG and bitmap files is possible as well as the realistic display of parts, or even photographs and illustrations loaded from a digital camera or scanner.



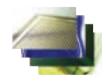






JPEG file display (GV52S and GV62S only)

Previously saved JPEG files can be loaded into a PC and used for document creation. Also, still images clipped from a video camera can be re-displayed.



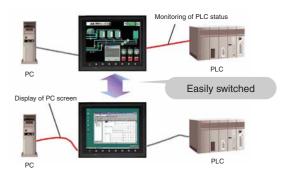




Analog RGB I/O (option, GV52S and GV62S only)

■ Analog RGB input

By connecting to a PC, the PC screen can be displayed and the switching of screens is easy.



*An optional unit (AIGV881) is required for analog RGB input

■ Analog RGB output

GV series screens can be displayed on PC monitors or output to a projector for display on a screen.



*An optional unit (AIGV882) is required for analog RGB output.

Sans serif font display

The fonts can be displayed for smooth and beautiful text display. HA Gothic True-type font can be used.

*When using HA Gothic, you cannot use it together with 16 or 32 dot fonts. Use of the expansion memory cassette (AlGV824) may be necessary depending on amount of remaining memory.

Brightness adjustment (GV52C, GV52S and GV62S only)

With detailed brightness control possible in 128 steps, the display will always be clear and easy to see. Installation is possible in dark areas inside factories or where ambient light fluctuates. (Backlight life will be shortened slightly.)



Video display function (option, GV52S and GV62S only)

Operation while viewing a superimposed video is possible. Video also facilitates troubleshooting by being able to load single frame stills using the signal snap function or 16 continuous still frames using the strobe snap function.

*An optional unit (AIGV880) is required to use this function.

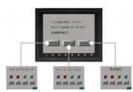




Even with the video screen at full size ($640 \times 480 \text{ dots}$), the operation screen can be displayed simultaneously on top of it.

Multi-language display

Eight languages, including Japanese, can be input in addition to English. These can be displayed simultaneously or switched with a single touch.

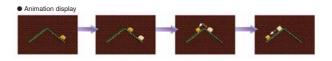


-	-
*A CF card is	required to enable
multi-lingual	ewitching

iviuiti	-lingual ec	iiting
	easy because E e same time as o	
Date:	2015	diffe.
の言語を使用します スイッチとランア	Which language do yo Switch and Lamps	使用即转语音? 开关和灯
自動 多動	FUTO MONTER	自功
2074	RIN	通 19
	STOP	19.11

Animation function (GV528 and GV628 only)

High-resolution animations can be easily created by combining bitmap pictures or pictures drawn by editing dots. Coordinate settings can be easily specified on the screen using a mouse.



Sound playback function

WAV format sound files can be played back by simply connecting a speaker.

Be at ease knowing that errors and other abnormalities will be heard at a distance.

*Optional units (AICV880 to AIGV883) are required to use this function.





Screen Creation Tool for The GV Series Terminal GVWIN

Our total support philosophy allows you to utilize existing data assets, develop screen data quickly, debug easily, and even facilitates production of your user documentation!



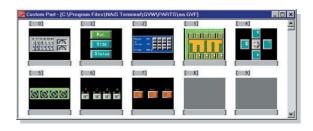
Just paste the parts; it couldn't be simpler!

To build screens select parts such as switches and lamps from our extensive parts files and place them on the screen. Of course, you can also create your own original parts as well.



Registering original parts for future use

You can save time by combine parts and graphics and registering them as custom parts to reuse them in the future.



Terminal GVWIN

Screen creation tool for the GV Series







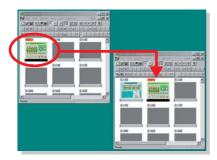






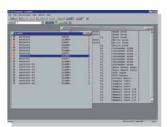
Easy copying of file screens

The Screen Manager makes it very easy to copy of file screens. This makes it easy to use past assets or split up screen creation tasks.



Simulator function

Even without a PLC you can still confirm operation of the GV by connecting it to a personal computer. All you need is a screen data transfer cable.



Screen bitmap copy

Screens can be output as bitmaps and for use by other applications. This is convenient when creating instruction manuals for your equipment.



GV Series Specifications

■ General specifications

		Specifications				
Item	GV42C	42C GV52C/GV52S		GV62S		
	AIGV4020012	AIGV5320000/AIGV5430000	AIGV5320012/AIGV5430012	AIGV6430000	AIGV6430012	
Rated voltage	24 V DC	100 to 240 V AC	24 V DC	100 to 240 V AC	24 V DC	
Power consumption	15 W max.	60 VA max.	30 W max.	60 VA max.	30 W max.	
Permissible momentary power failure	1 ms or less	20 ms or less	1 ms or less	20 ms or less	1 ms or less	
Breakdown voltage	Between external DC power terminal and frame ground: 500 V AC for 1 min.	Between external AC power terminal and frame ground: 1500 V AC for 1 min.	Between external DC power terminal and frame ground: 500 V AC for 1 min.	Between external AC power terminal and frame ground: 1500 V AC for 1 min.	Between external DC power terminal and frame ground: 500 V AC for 1 min.	
Insulation resistance	500V DC, 10MΩ or more					
Ambient temperature	0 to +50°C/32 to 122°F					
Ambient humidity	85%RH or less (without dew condensation)					
Storage temperature	-10 to +60°C/-50 to 140°F					
Vibration resistance	Vibration frequency 10 to 150 Hz, Acceleration: 9.8 m/s² (1G); Single amplitude: 0.075 mm, 3 directions of X, Y, and Z: 1 hour.				hour.	
Shock resistance		Pulse shape: sine half wave, p	eak acceleration: 147 m/s2 (15G), 3 dia	rections of X, Y and Z: six times		
Noise immunity	1500 Vp-p (1 µs pulse width, 1 ns rise time) noise simulator used. The DC type satisfies EMC standards separately.					
Static electricity discharge resistance		IEC1	000-4-2 compliant, contact 6 kV, in air	8 kV		
Grounding	D-class earth (Class 3 earth)					
Protective construction		Front panel: IP65; Rear case: IF	20 compliant; Shape: single unit; Insta	Illation method: panel imbedded		
Cooling system			Cooling naturally			
Mass	Approx. 1.5 kg/3.31 lb Approx. 2.4 kg/5.29 lb Approx. 2.7 kg/5.95 lb				7 kg/5.95 lb	

■ Display

	Specifications						
Item	GV42C	GV:	GV52C GV52S		GV62S		
	AIGV4020012	AIGV5320000	AIGV5320012	AIGV5430000	AIGV5430012	AIGV6430000	AIGV6430012
Display	STN color	STN color TFT color					
Display color		128 colors 32,768 colors and			nd 16 blink colors		
Resolution		640 × 480 (VGA) 800 × 600 (SVGA)			(SVGA)		
Effective display area	7.7 inch	7.7 inch 10.4 inch				12.1	inch
Backlight		Cold cathode tube (user replaceable)					
Backlight average life	Approx. 40,000 hours	x. 40,000 hours Approx. 50,000 hours					
Auto off function		Continually lit, free setting					
Contrast adjustment	Set via function switch	switch Not available					

^{*}Adjusted using function switch.

■ Functions

l	tem	Specifications					
Display languages		Japanese	English, European	Traditional Chinese	Simplified Chinese	Korean	
Display characters	1/4 size, 1/2 size	ANK code	Latin1	ASC II code	ASC II code	ASC II code	
	Full size 16 dots	JIS#1 and #2 TrueType font	_	Traditional Chinese	Simplified Chinese	Hamkul alphabet (kanji character is improper)	
	Full size 32 dots	JIS#1 TrueType font	_	_	_	_	
Type of lines		6 types (fine, thick, dot, chain, broken, 2-dot chain)					
Tile patterns		16 types (incl. user-definable 8 types)					
Diplay property			Always o	n, blinking, reverse video, reverse vide	o blinking	ıg	
Display color		32,768 colors and 16 blink colors (GV42C: 128 colors and 16 blink color)					
Color specification Foreground, background boundaries (line)							
Screen creation			Special purpose software application: Terminal GVWIN (Windows version)				

■ Touch key

Item	Specifications
Form	Analog resistance film form
Mechanical lines	10 ⁶ cycles or more
Screen treatment process	Hard coat, non glare treatment 5%

■ Function swich

ltem	Specifications
Number of switches	8
Form	Pressure sensitive switches
Mechanical life	10 ⁶ cycles or more

GV Series Types

■ Main units

Specification	Product No.
7.7 inch STN/DC/CE/UL compliant product	AIGV4020012
10.4 inch TFT/SVGA/AC/CE/UL compliant product	AIGV5320000
10.4 inch TFT/SVGA/DC/CE/UL compliant product	AIGV5320012
10.4 inch TFT/SVGA/AC/CE/UL compliant product	AIGV5430000
10.4 inch TFT/SVGA/DC/CE/UL compliant product	AIGV5430012
12.1 inch TFT/AC/CE/UL compliant product	AIGV6430000
12.1 inch TFT/DC/CE/UL compliant product	AIGV6430012
	7.7 inch STN/DC/CE/UL compliant product 10.4 inch TFT/SVGA/AC/CE/UL compliant product 10.4 inch TFT/SVGA/ADC/CE/UL compliant product 10.4 inch TFT/SVGA/AC/CE/UL compliant product 10.4 inch TFT/SVGA/AC/CE/UL compliant product 12.1 inch TFT/AC/CE/UL compliant product

■ Screen creation tool

•			
	Product name	Specification	Product No.
	Terminal GVWIN	Screen creation tool software CD-ROM English version (with paper manual)	AIGV801
	Terminal GVWIIN	Screen creation tool software CD-ROM English version	AIGV8010

■ Interface unit

Product name	Specification	Product No.
Terminal converter	RS422/485 converter for connecting to PLC	AIGV830
Dual port interface	Mitsubishi CPU dual port interface	AIGV831
	CC-Link communication unit	AIGV832
Communication unit	Ethernet communication unit	AIGV833
	Profibus communication unit	AIGV834

■ Installable units

Product name	Specification	Product No.
Video input and sound output unit	Video input: 4 channels; sound output: 1 channel	AIGV880
RGB input and sound output unit	RGB input: 1 channel; sound output: 1 channel	AIGV881
RGB output and sound output unit	RGB output: 1 channel; sound output: 1 channel	AIGV882
Sound output unit	Sound output: 1 channel	AIGV883

■ Card recorder

Product name	Specification	Product No.
Card recorder	_	AIGV850

Memory

Product name	Specification	Product No.
Expansion F-ROM	8 MB	AIGV824
Expansion SRAM	512 KB	AIGV825

■ Screen protection sheets

Product name	Specification	Product No.
Screen protection sheet for the GV62S	12.1 inch. Screen protection sheet (non-glare type), 5 pcs.	AIGV6833
Screen protection sheet for the GV52C/GV52S	10.4 inch. Screen protection sheet (non-glare type), 5 pcs.	AIGV5834
Screen protection sheet for the GV42C	7.7 inch. Screen protection sheet (non-glare type), 5 pcs.	AIGV4835

■ Cable

Product name	Specification	Product No.
Printer cable	2.5 mm/8.202 ft	AIGV890
Screen transfer cable	3 mm/9.843 ft	AIGV8103
PLC connecting cable	For connection to tool port of Matsushita Electric Works FP0, FP Σ , FP2, FP2SH or FP-M	AFC8513
	For connection to COM. port of Matsushita Electric Works FP1, FP2, FP2SH, FP-M or FP10SH For connection to CCU of Matsushita Electric Works FP2 or FP3	AFB85813

■ Replacement battery

Product name	Specification	Product No.
Replacement battery	_	AIGV841

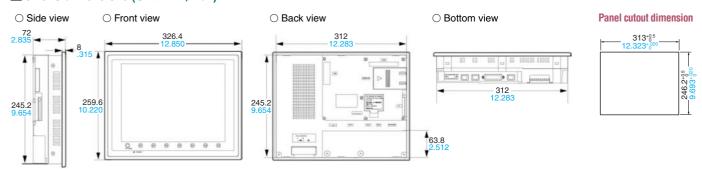
■ Replacement Backlight

Product name	Specification	Product No.
Backlight for GV62S	Backlight for GV62S (12 inch TFT/SVGA)	AIGV6804
Backlight for GV42C	Backlight for GV42C (7 inch STN/VGA)	AIGV4800
Backlight for GV60T	Backlight for GV60T (12 inch TFT/SVGA)	AIGV6804
Backlight for GV50T/GV52C	Backlight for GV50T/GV52C (10 inch TFT/VGA)	AIGV5805
Backlight for GV50C	Backlight for GV50C (10 inch STN/SVGA)	AIGV5800
Backlight for GV40C	Backlight for GV40C (7 inch STN/SVGA)	AIGV4800

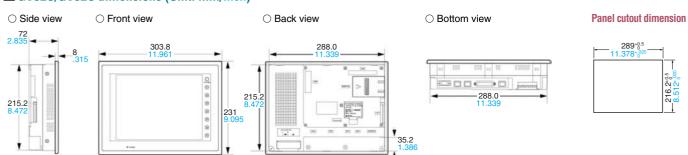
Backlight for GV40C | Backlight for GV40C (7 inch STN/SVGA) | All Notes: For GV60T and GV50T, use the following backlights when the hardware version is B or lower. Backlight for GV50T: AIGV5802 | Backlight for GV50T: AIGV5802 | For GV50S use the following backlights when the hardware version is a or lower. Backlight for GV50S: AIGV5801

GV Series Dimensions

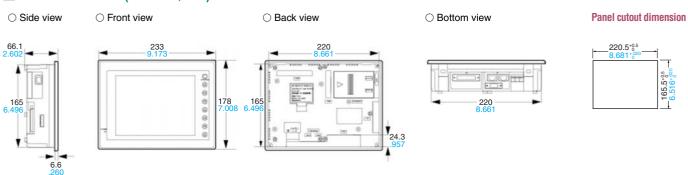
■ GV62S dimensions (Unit: mm/inch)



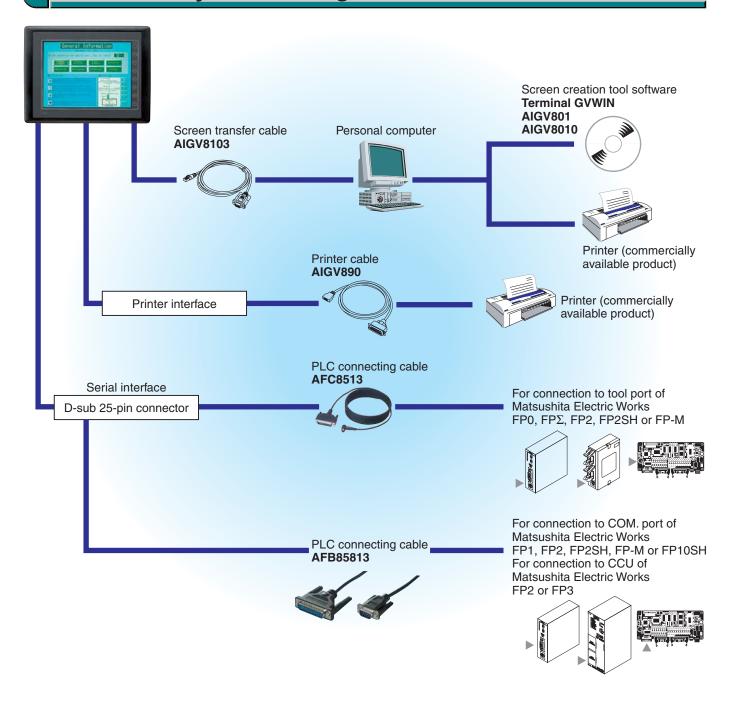
■ GV52S/GV52C dimensions (Unit: mm/inch)



■ GV42C dimensions (Unit: mm/inch)



GV Series System Configuration



Please contact

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