

# Soft-GRAF Studio

Create a colorful HMI in the ISaGRAF PAC

## ISaGRAF Features

- ISaGRAF Supports IEC 61131-3 Standard PLC Open Languages
- Uploading the Program in the Controller
- Online Debug/Control/Monitor
- Offline Simulation
- Lock & Unlock I/O
- Backup and Restoration of Applications
- Graphic Debugging Animation

## Soft-GRAF Features

- Support Various and Colorful HMI Objects:
  - Pages (Max. 200, Support Password Security)
  - Label (Normal, Reverse Type, Under-line)
  - Boolean Value (Normal, Reverse Type, Blinking)
  - Numeric Value (Normal, Scaling, Limit - Blink/Color/Text)
  - Message Value (Dynamic Message, Multi-language)
  - Button (Value, Title, Picture, Security, Confirm, Password)
  - Picture (Static, Dynamic, Boolean Picture)
  - Login/Logout
  - Bar Meter (Vertical, Horizontal, Scale, Unipolar, Bipolar)
  - Trace (1-axis, 2-axis)
  - Trend (Real-time, Historical)
  - Schedule-Control
  - Gauge Meter
  - Alarm Lists
  - Data Logger (Log data; support USB export or FTP upload)
  - Built-in Various Objects (Button, Gif, LED... will be More)
- Multi-language:
  - English, Traditional Chinese, Simplify Chinese, Russian...
- Support user designed graphics, e.g. JPG, PNG ...

## Introduction

Soft-GRAF Studio is an HMI (Human Machine Interface) software developed by ICP DAS which allows user to create his colorful HMI application running with the control logic in the same XP-8147-Atom-CE6/8347-Atom-CE6/8747-Atom-CE6, XP-8047-CE6/8347-CE6/8747-CE6, WP-8137/8437/8837, WP-8147/8447/8847, WP-5147/5147-OD and VP-25W7/23W7/4137 ISaGRAF PAC. User can edit the HMI screen by Soft-GRAF Studio using the graphical drag and drop operation. And use ISaGRAF to design the control logic by PLC Languages (Ladder, ST, FBD, .....).

## Running HMI and Control Logic in the Same PAC



For more information, refer to [www.icpdas.com](http://www.icpdas.com) > FAQ > Software > ISaGRAF Ver.3 (English) > 146

## Specifications

ISaGRAF PAC Models	XP-8xx7-CE6	XP-8xx7-Atom-CE6	WP-8x37	WP-8x47	WP-5xx7	VP-23W7	VP-25W7	VP-4137
Operating System	CE 6.0 R3 Core		CE 5.0		CE 5.0		CE 5.0	
Development Software	ISaGRAF Ver. 3 : IEC 61131-3 standard. LD, ST, FBD, SFC, IL & FC Support Soft-GRAF Studio to develop HMI							
Max. ISaGRAF Code Size	2 MB		1 MB		1 MB		1 MB	
CPU	LX800, 500 MHz	Atom Z510, 1.1 GHz	PXA270, 520 MHz		PXA270, 520 MHz		PXA270, 520 MHz	
Flash	4 GB	8 GB	128 MB	96 MB	64 MB	96 MB		128 MB
SDRAM/RAM	512 MB		128 MB		128 MB		128 MB	
Dual Battery Backup SRAM	512 KB		512 KB		-		512 KB	
LCD Monitor/Touch Panel	-	-	-	-	-	3.5" Non-touch	5.7" Touch	10.4" Touch
VGA (Resolution)	1024 x 768	1024 x 768	1024 x 768	800 x 600	800 x 600	320 x 240	640 x 480	800 x 600
USB	2 (Host)	4	2 (Host)	1 (Host)	Host*1, Client*1	1 (Host)		Host*2, Client*1
Ethernet	2		2		2		1	
RS-232/RS-485	4 or 5	4	2 or 4		3		2	
I/O Slot or Expansion Bus	Slots: 0/3/7	Slots: 1/3/7	Slots: 1/4/8		Bus: 1		Slots: 3	

## Ordering Information

Models	Description
ISaGRAF-256	ISaGRAF Workbench Software Ver.3 (256 I/O Tags), with one USB Dongle
ISaGRAF-32	ISaGRAF Workbench Software Ver.3 (32 I/O Tags)
XP-8047-CE6 CR XP-8347-CE6 CR XP-8747-CE6 CR	0/3/7 slots Ethernet WinCE 6.0 Based ISaGRAF PAC (OS: Multi-Language version) (RoHS)
XP-8147-Atom-CE6 CR XP-8347-Atom-CE6 CR XP-8747-Atom-CE6 CR	1/3/7 slots Ethernet WinCE 6.0 Based ISaGRAF PAC (OS: Multi-Language version) (RoHS)
WP-8137/8437/8837 CR WP-8147/8447/8847 CR	1/4/8 slots Ethernet WinCE 5.0 Based ISaGRAF PAC (RoHS)
WP-5147 CR WP-5147-OD CR	Palm-size Ethernet WinCE 5.0 Based ISaGRAF PAC (RoHS) (WP-5147-OD with audio)
VP-23W7 CR VP-25W7 CR VP-4137 CR	3 slots Ethernet WinCE 5.0 Based ISaGRAF PAC (RoHS) with 3.5" LCD / 5.7" Touch LCD Panel / 10.4" Touch LCD Panel