

Compliant Testing In Accordance with:

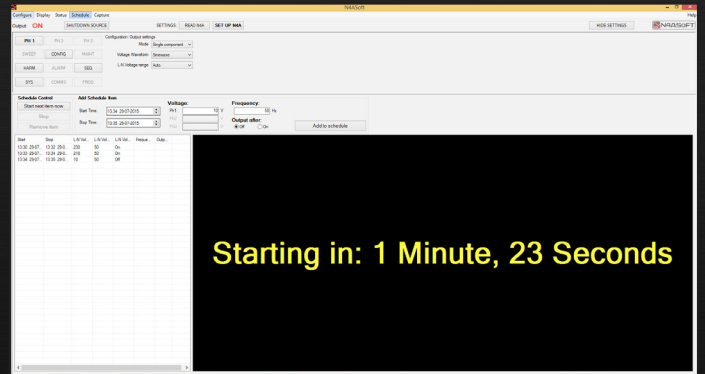
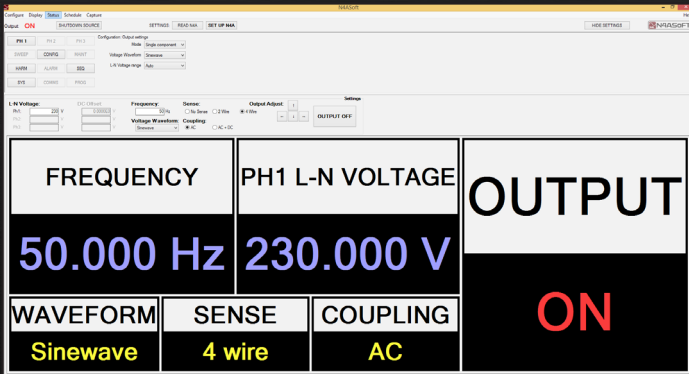
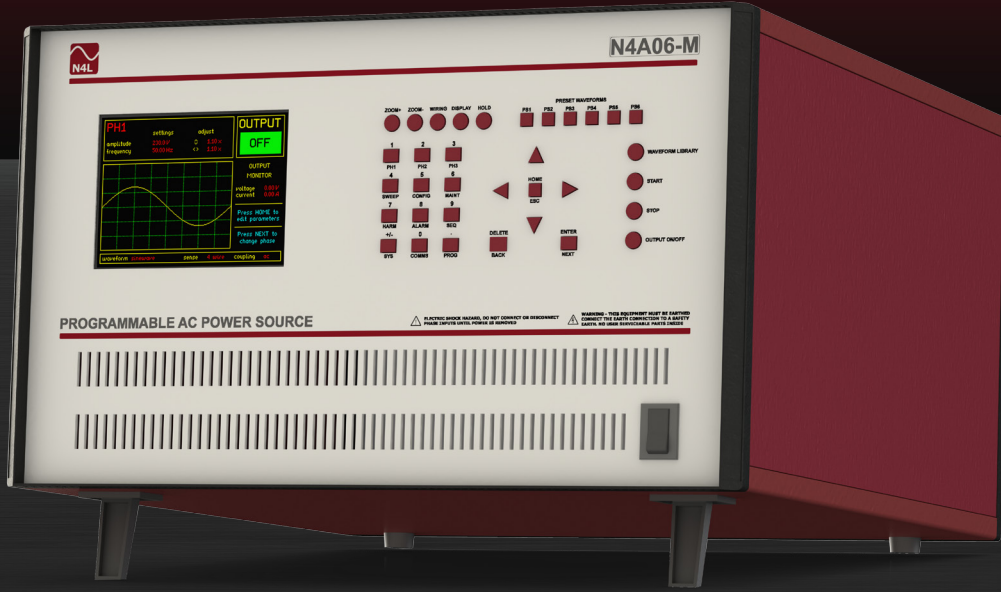
IEC/EN61000-3-2

IEC/EN61000-3-3

IEC/EN61000-3-11

IEC/EN61000-3-12

N4ASoft Power Source Control Software



Product Overview

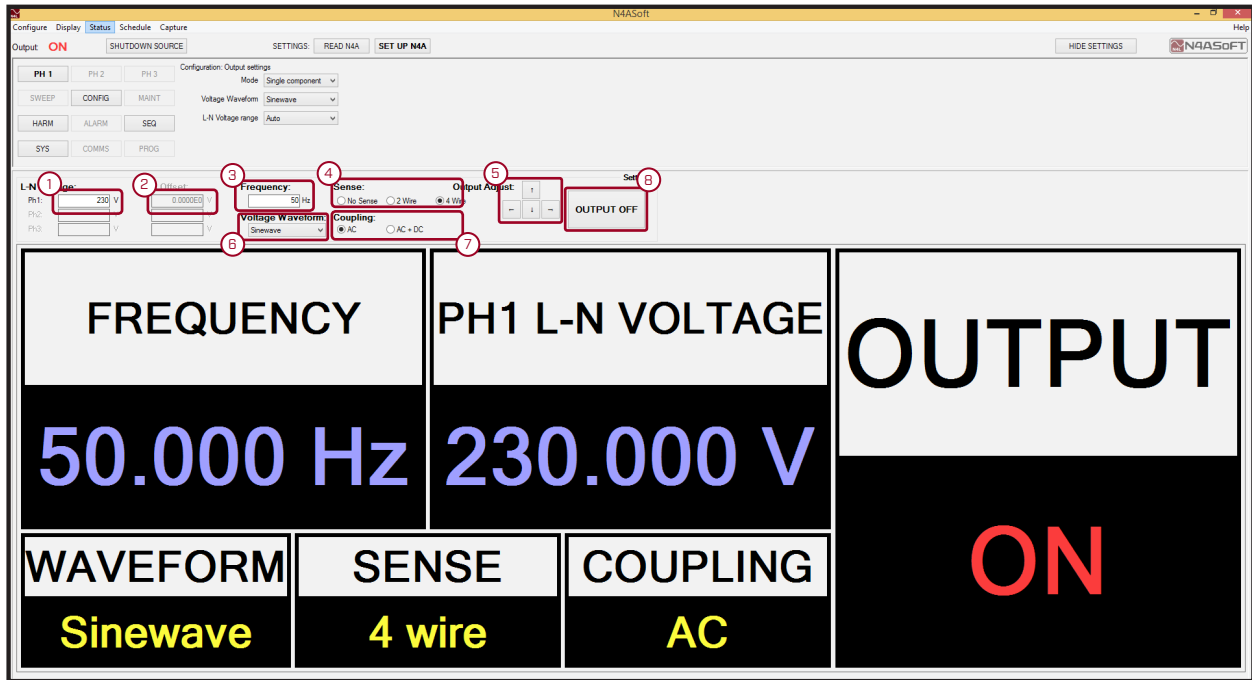
Full Remote Control	Control any N4A AC Power Source via LAN, RS232 or USB
Flexible Scheduling	Schedule timed events with a resolution of minutes, days or weeks
Single Phase and 3 Phase	Single Phase and 3 Phase control
Harmonic Synthesis	Harmonic Synthesis of complex waveforms available
Sine, Square, Triangle and Complex Waveforms	Program a range of waveforms remotely
C++ Win32 API	No installer required, run software direct from .exe file

■ Product Overview

N4ASoft provides a simple to use remote control software program which is compatible with all N4A Power Sources which can be executed directly from the self contained .exe with no installation required.

■ Basic Control

Basic control of the AC Power Source is provided via the main control screen, where Voltage, Frequency, Waveform Type, DC Offset, Coupling, Sense and various other settings can be configured.

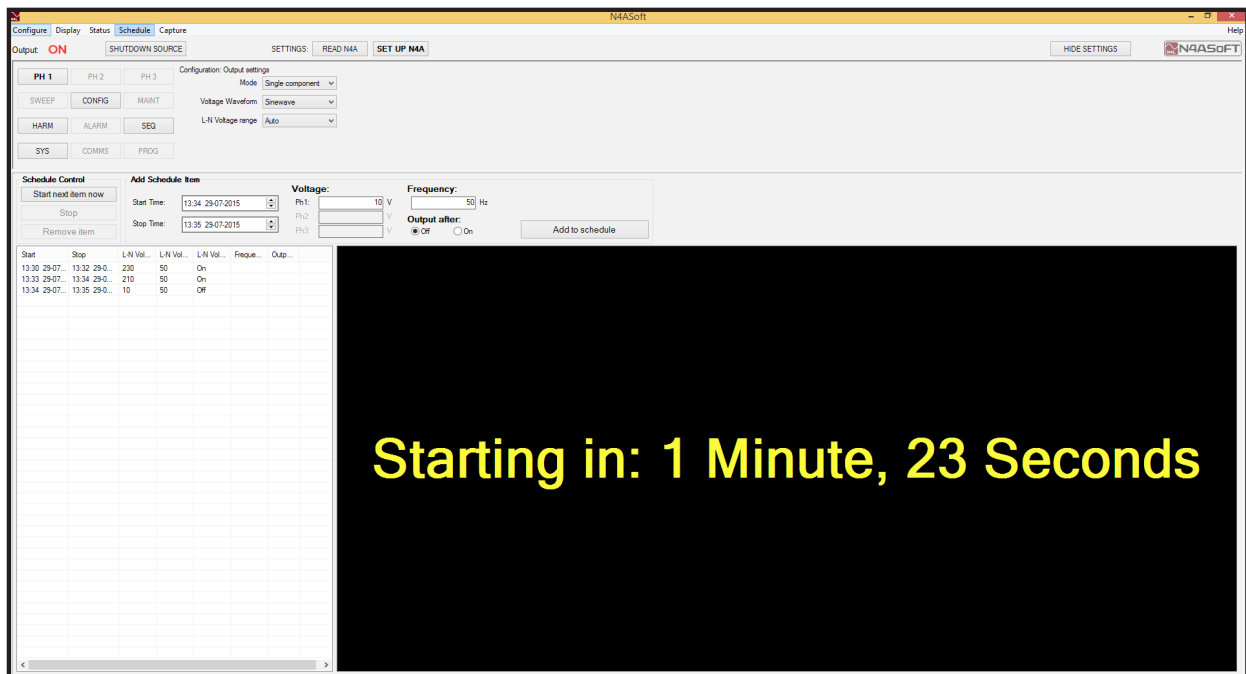


■ Key

- ① Voltage Control
- ② DC Offset
- ③ Frequency Control
- ④ Sense Control
- ⑤ Output Adjust
- ⑥ Waveform Slection
- ⑦ Coupling
- ⑧ Output ON/OFF

■ Schedule Mode

N4ASoft features a scheduling mode which facilitates the programming of events via software, both frequency and voltage changes are possible with this mode.

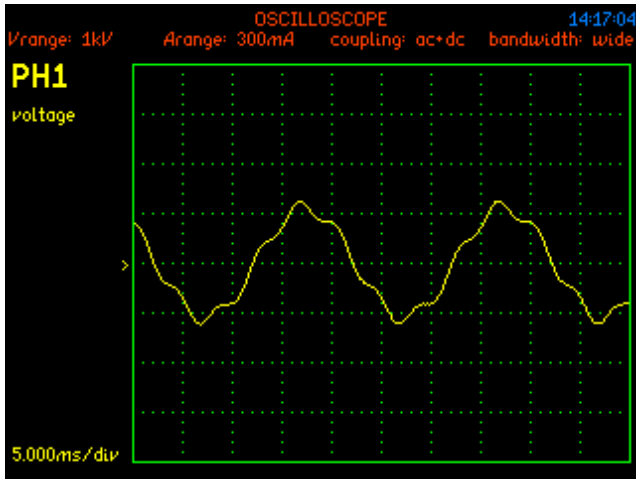


■ Harmonic Synthesis

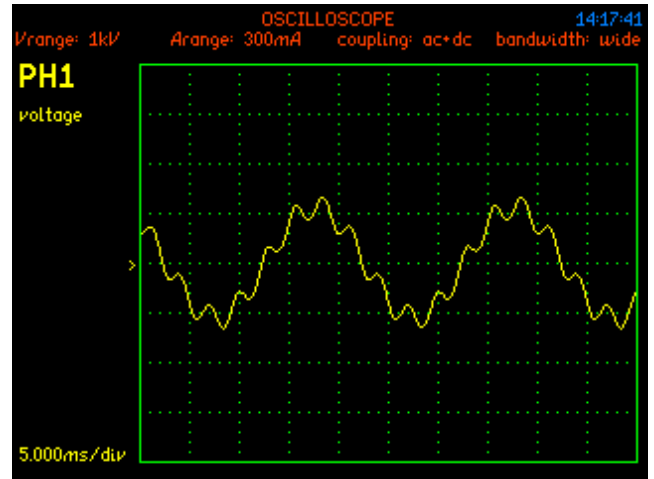
Harmonics mode enables the user to generate harmonics and interharmonics up to 15kHz, both magnitude and phase offset are adjusted via the software or the AC Source front panel.

PH 1	PH 2	PH 3	Configuration: Output settings	
SWEEP	CONFIG	MAINT	Mode	Harmonics
HARM	ALARM	SEQ	L-N Voltage range	Auto
SYS	COMMS	PROG	Harmonic L-N Voltage	30
			Waveform	Sinewave
			Order	3
			Phase offset	0.0000E0
			Harmonic Freq. (Hz)	150.000

Harmonics Mode



3rd Harmonic



5th Harmonic

■ Screenshot

The capture menu provides a simple screenshot download feature, at the click of a button N4ASoft will download colour or black and white images of the current N4A Power Source display. This can then be copied to the clipboard and exported to a document of your choice.

PH 1	PH 2	PH 3	Configuration: Output settings	
SWEEP	CONFIG	MAINT	Mode	Harmonics
HARM	ALARM	SEQ	L-N Voltage range	Auto
SYS	COMMS	PROG	Harmonic L-N Voltage	30
			Waveform	Sinewave
			Order	3
			Phase offset	0.0000E0
			Harmonic Freq. (Hz)	150.000

Capture Mode

■ IEC61000

All N4A AC Power Sources are compliant to IEC61000-3-2/3/11/12* (Harmonics and Flicker), providing extremely low THD within the limits of the standard (% distortion) under demanding load conditions. N4ASoft or IECSOFT can be used to control the power source for such compliance tests.

*Depending upon current rating

N4ASoft Specification

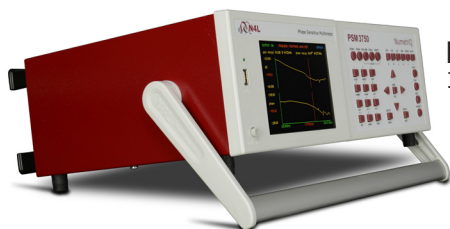
	N4ASoft
System Configuration	
Compatible AC Power Sources	N4A03, N4A06, N4A18, N4A30, N4A67
File Type	.exe, no installer required
File Size	815kb
Windows Requirements	Win XP or later
Modes	Basic, Harmonics, Schedule, Screen Capture

AC SOURCE SPECIFICATION

	N4A03 (1 Phase)	N4A06 (1 Phase)	N4A18 (3 Phase)	N4A30 (3 Phase)	N4A67 (3 Phase)
Nominal Output Power	3,000VA	6,000VA	18,000VA	30,000VA	67,500kVA
Output					
Output Voltage (AC)	0-300Vrms	0-300Vrms	0-300Vrms	0-300Vrms	0-300Vrms
Output Voltage (DC)	0-425V DC	0-425V DC	0-425V DC	0-425V DC	0-425V DC
Maximum Continuous Output Power (AC)	3000VA	6000VA	18,000VA	30,000VA	67,500VA
Maximum Inrush (3 Second) Output Power	6000VA	12000VA	36,000VA	60,000VA	90,000VA
Maximum Output Current (Continuous)	10Arms	20Arms	20Arms (Per Phase)	32Arms (Per Phase)	75Arms (Per Phase)
Maximum Output Current (Inrush)	20Arms	40Arms	40Arms (Per Phase)	64Arms (Per Phase)	100Arms (Per Phase)
Output Frequency	DC - 1kHz	DC - 1kHz	DC - 1kHz	DC - 1kHz	DC - 1kHz
Min Slew Rate	3V/us	3V/us	3V/us	3V/us	3V/us
Output Voltage Stability	Better than 0.1%	Better than 0.1%	Better than 0.1%	Better than 0.1%	Better than 0.1%
Output Voltage Accuracy	Better than 0.5%	Better than 0.5%	Better than 0.5%	Better than 0.5%	Better than 0.5%
THD	Better than 0.3%*	Better than 0.3%*	Better than 0.3%*	Better than 0.3%*	Better than 0.3%*
Output Noise	<500mVrms	<500mVrms	<500mVrms	<500mVrms	<500mVrms
Recovery Time of Output Waveform	Better than 50us	Better than 50us	Better than 50us	Better than 50us	Better than 50us
Max Compensated drop on wires (w.r.t voltage setting)	5%	5%	5%	5%	5%
Recovery Time of Drop on Wires	Less than 200ms	Less than 200ms	Less than 200ms	Less than 200ms	Less than 200ms
Maximum Crest Factor Output (Current)	[Inrush $I_{max} \times 1.41$]/RMS Load Current	[Inrush $I_{max} \times 1.41$]/RMS Load Current	[Inrush $I_{max} \times 1.41$]/RMS Load Current	[Inrush $I_{max} \times 1.41$]/RMS Load Current	[Inrush $I_{max} \times 1.41$]/RMS Load Current
General					
Dimensions	281mm x 471mm x 513mm	281mm x 471mm x 513mm	1785mm x 930mm x 755mm	1785mm x 930mm x 755mm	1800mm x 1200mm x 800mm
Weight	30kg	45kg	740kg	740kg	1300kg
Input Voltage	230V AC +/- 10% 1PH	400V AC +/- 10% 3PH	400V AC +/- 10% 3PH	400V AC +/- 10% 3PH	400V AC +/- 10% 3PH
Input Frequency	45-65Hz	45-65Hz	45-65Hz	45-65Hz	45-65Hz
Operating Temperature	0-35degC	0-35degC	0-35degC	0-35degC	0-35degC
Input Current	24Arms	16Arms Phase / 27A Neutral	60A continuous 120A inrush / Phase	80A continuous 160A inrush / Phase	160A continuous 220A inrush / Phase

*At Nominal Voltage with Linear Load

The N4L product range also includes Power, Frequency Response and Impedance Analyzers, Selective Level Meters and Laboratory Power Amplifiers



PSM3750
10μHz ~ 50MHz



PSM17xx
10μHz ~ 35MHz



Newton's4th

Newton's4th Ltd (abbreviated to N4L) was established in 1997 to design, manufacture and support innovative electronic equipment to a world-wide market, specialising in sophisticated test equipment particularly related to phase measurement. The company was founded on the principle of using the latest technology and sophisticated analysis techniques in order to provide our customers with accurate, easy to use instruments at a lower price than has been traditionally associated with these types of measurements. Flexibility in our products and an attitude to providing the solutions that our customers really want has allowed us to develop many innovative functions in our ever increasing product range.

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