# SERIAL PORT TOOL N-Button Pro Quick Start Guide



SERIAL PORT TOOL

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# **Template Quick Start Guide**

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# Chapter

# Introduction

#### **Control Relays Right From Your Desktop**

N-Button creates widgets to control most NCD relay controller boards without any programming!

N-Button supports Serial Port/USB and Network connection between the PC and the relay board. Add any type of included N-Button widgets with N-Button Manager. It's also very easy to modify the widget's properties to get the button and configuration compatible with Reactor/Key Fob or Taralist relay since these controllers have their own configuration software included with the board or MirC/MirX controllers since these don't require any software or programming at all.

#### **N-Button Lite**

N-Button Lite has all the button and widgets of the full version and supports up to 8 widgets. Created for users with smaller needs to save money, N-Button Lite is a powerful tool for controlling relays or reading A/D inputs with up to 8 widgets. If you want to add more than 8 widgets, simple upgrade to the standard version.

# **Widget Options**

There are four types of widgets, Relay Button, Relay Status, A/D Meter, and Customized Button.

# **Relay Button**

Relay Button widgets turn on/off relays directly. It has never been easier to control relays before. Create a button that turns a relay on and another one to turn the relay off or create a button that toggles the relay on and off. It's up to you and easy to configure with the N-Button software!





# **Relay Status**

Relay Status widgets show status of the relay automatically. Just glancing at your desktop will show the status of the relay!



# A/D Meter

A/D Meter widgets are probably the best of all since they display the value of A/D channel automatically. If you are measuring light levels, temperature levels or any kind of sensor it's like having a meter right on your desk for constant monitoring. Best of all the increments on the meter can be fully customized to fit your needs! Choose an Analog to Digital controller (look for AD in the part number) purchase a copy of N-Button or N-Button Lite and you can read the A/D levels right on your desktop.



# **Customized Button**

Customized Button widgets can send user-defined data to relay board. It also supports to open or run other files and applications.



# **Using N-Button Lite**

#### Install

Step 1: Download N-Button Lite zip file.

Step 2: Unzip the download file.

*Step 3*: Double click setup.exe file.

Step 4: Follow the default instruction to finish the installation.

*Step 5*: N-Button Lite icon will be shown on your desktop.

Step 6: Double click the N-Button Lite icon to run it. It also can be run by clicking Start  $\rightarrow$  All Programs  $\rightarrow$  N-Button Lite  $\rightarrow$  N-Button Lite.



N-Button Lite Manager will be shown on your screen:

N• N-Button Lite Manager	? <mark>- × -</mark>
Devices 3 Device(s)	Devices Manager
Setting Show Order Web Interface On Top of All Windows O Dn Desktop Only Allow to Control Remotely from Web Browser	Port Number: 8080
Hide/Show Hotkey: None    Opacity: 100   Background Image: Browse	Auto Run After Login Windows
Widgets       ON       Jass 2800       ScanChannel       Dimmer Dimmer       Slider 1       Camera Widget 1         Button 1       RelayStatus 1       AD1       ScanChannel       Dimmer       Slider 1       Camera Widget 1         PTZ Button 1       Label 1       Customized Button       Advanced Button       ScanChannel       Dimmer Button 1	N-Button Description:
Relay Button       A/D Meter       Dimmer Button       Camera Widget       Label         Relay Status       Scan Channel       Dimmer Silder       PTZ Button       Customized Button         Advanced Customized Button       Advanced Customized Button       Save	Edit Delete Copy Delete All OK Cancel

#### **N-Button Pro Manager**

The type of device and connection method must be selected on **N-Button Pro Manager** before creating any widget to control the device.

N-Button Pro Manager						?	X
Devices 3 Device(s)						evices Manager	7
Setting Show Order	🚯 Devices Manager	_		V	l	- 0 X	
On Top of All Wine	Name	Manufactu	Content		Comments	New	1
	NCD Relay Board	NCD	NCD Device: NCD_ProXR Se	erial Port CO		Edit	
Hide/Show Hotkey: N		Velleman	Velleman Device: Serial Port				
nide/ onon noncey.	Panasonice IP camera	Panasonic	Panasonic IP Camera: IP Add	dress 192.16			
Background Image Con	nection Setting				4	×	
Widgets	Name: Device		Manufacturer:	National Contro		•	
- N	NCD Device Setting			National Contro ENTTEC Velleman	ol Devices		Ŷ
	Board Type: ProXR		-	Mobotix Axis			
	COM Port			Panasonic Bosch OTHER			
	Port Name: COM3				Timeout: 50	0 🚔 ms	

- N-Button Lite supports devices of National Control Devices, ENTTEC, Velleman, Mobotix, Axis, Panasonic, Bosh IP cameras and also other serial port/USB or network devices.
- N-Button Pro supports settings for Show Order, Web Interface, Hide/Show Hotkey, Opacity, and Backgroud of widgets, Auto run after login Windows, as wel as Password for opening this Manager panel. N-Button Lite allows you to access the created widgets remotely. The widgets can be viewed and controlled through a web browser.

Setting Show Order On Top of All V	Vindows	⊚ 0	n Desktop Only	Web Interface	emotely from Web	Browser	Port Number:	8080
Hide/Show Hotkey:	None	•	Opacity:		64	🔲 Auto Rur	n After Login Win	dows
Background Image:					Browse	Manager	Password	

11 types of widgets can be created Relay Button, Relay Status, A/D Meter, Scan Channel, Dimmer Button, Dimmer Slider, Camera Widget, PTZ Button, Label, Customized Button, and Advanced Customized Button.

dgets	ON	2000				6
Button1	RelayStatus1	236.0 AD1	ScanChannel	Dimmer Button 1	Slider 1	Camera Widget 1
	Label			ON		
PTZ Button1	Label 1	Customized Button	Advanced Button	ScanChannel	Dimmer Button 1	
Add						
Relay Butto	n A/DI	Meter Di	mmer Button	Camera Widget	La	abel
Relay Statu	s Scan C	hannel D	immer Slider	PTZ Button	Customiz	ed Button
				Advanced	Customized B	utton

\*N-Button Lite version supports up to 16 widgets only.

\*N-Button Pro version supports up to 256 widgets.

## **Add Relay Button**

*Step 1:* Click "Relay Button" on N-Button Pro Manager to show **Properties – Relay Button** dialog. This dialog is used to set control action and appearance for Relay Button widgets.

Relay Button widget can be set to control single relay or multi relays. It can turn on/off relays, toggle relay status, and set status of relays.

All Banks
All Relays
Action: Tum ON All Relays
Relay 1 OFF Relay 3 OFF Relay 5 OFF Relay 7 OFF
Relay 2 OFF Relay 4 OFF Relay 6 OFF Relay 8 OFF
▼ Hint Text:
Size
Standard (50%)         ▼         Width:         150         ▲         Height:         30         ▲
Font: Arial, 12, 1 ForeColor: BackColor:
Font: Arial, 12,1 ForeColor: BackColor:
Font: Arial, 12, 1 ForeColor: BackColor:
OK Cancel

About help

# **Add Relay Status**

*Step 1:* Click "Relay Status" on N-Button Pro Manager to show **Properties - Relay Status** dialog. This dialog is used to set relay ID and appearance for Relay Status widgets.

Relay Status is used to indicate the specific relay's status. It has three status, On/Off and other (unknown). The widget will be refreshed automatically when a relay's command is issued. If it fails to get the status of the relay, it will show the status of unknown. Use Relay Status widgets with Relay Button widgets together to control the relays and show their status on the desktop.

Name: RelayStatus1				
Bank ID:	-	Relay ID:	elay 1 👻	
Appearance				
Style: OGraphic Status 1	•	Transparent	Hint Text:	
X: 10 Y: 10		Size Standard (50%)	▼ Width: 150 🔄	Height: 30 文
On Caption: On		Font: Arial, 12, 1	ForeColor:	BackColor:
Off Caption: Off		Font: Arial, 12, 1	ForeColor:	BackColor:
Other Caption: ???		Font: Arial, 12, 1	ForeColor:	BackColor:

*Step 2:* Right-click a created Relay Status, selecting the **Properties** option on pop-up menu to edit its properties.

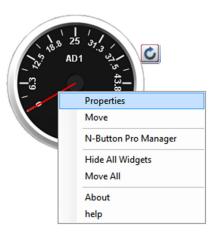
Properties
Move
N-Button Pro Manager
Hide All Widgets
Move All
About
help

# **Add AD Meter**

*Step 1:* Click "AD Meter" on N-Button Pro Manager to show **Properties - AD Meter** dialog. This dialog is used to set relay ID and appearance for A/D widgets. AD Meter widget will read the value of A/D channel and show the value on the screen. The raw value of A/D channel is 0-255. The meter can map the value to different range, like 0-5, which is voltage on A/D channel or other values you want. The widgets can update the value at specific interval automatically as well as refreshed manually.

N Properties - A/D Meter	?
Name:     AD1       A/D ID:     AD 1       Style:     Meter 3	Caption: AD1 Location X: 10 Y: 10
Update Manually Automatically Interval: 60 🚖 x 100 ms	Meter Setting Major Tickmark Count: 9
Hint Text	Mapping Setting Mapping 0 to Value: 0 Mapping 255 to Value: 255
ОК	Cancel

*Step 2:* Right-click a created AD Meter, selecting the **Properties** option on pop-up menu to edit its properties.



# **Add Scan Channel**

*Step 1:* Click "Scan Channel" on N-Button Pro Manager to show **Properties – Scan Channel** dialog.

Scan Channel is used to read the contact closure inputs. It will show On/Off and other (unknown). The widget will show the status of the contact closure inputs automatically. If it fails to get the status of the inputs, it will show the status of unknown.

N Properties - Scan Channel		? 💌
Name: ScanChannels1 Bank ID: 1	Channel ID: Channel 1	
Style: Ographic Status 2 🗸	Transparent Hint Text:	
Location X: 10 Y: 10	Size Standard (50%)  Vidth: 150	Height: 30
On Caption: On	Font: Arial, 12, 1 ForeColor:	BackColor:
Off Caption: Off	Font: Arial, 12, 1 ForeColor:	BackColor:
Other Caption: ???	Font: Arial, 12, 1 ForeColor:	BackColor:
	OK	

*Step 2:* Right-click a created Label, selecting the **Properties** option on pop-up menu to edit its properties.

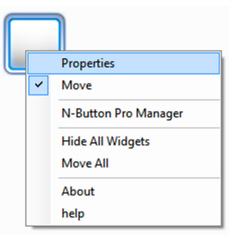
Properties
Move
N-Button Pro Manager
Hide All Widgets
Move All
About
help

# **Add Dimmer Button**

*Step 1:* Click "Dimmer Button" on N-Button Lite Manager to show **Properties - Dimmer Button** dialog. This dialog is used to show a static text or an image.

Prop	erties - Dimmer But	tton			X
Name	: Dimmer Button 1				
Арреа	arance				
Style	Standard Button	-	Hint Text:		
Loca	ation		Size		
X:	10 Y: 1	0	Standard (50%) 💌	Width: 150 🚔	Height: 30 🚔
Сар	tion: Dimmer Button		Font: Arial, 12, 1	ForeColor:	BackColor:
	Channel No	Selected	Brightness	<b>^</b>	Select All
•	0		0	E	Select None
	1		0	-	
	2		0		Set to Same Value
	3		0		
	4		0		
	4 5		0		
	4 5 6		0 0 0		
	4 5 6 7		0 0 0 0		
	4 5 6		0 0 0	Ţ	
	4 5 6 7		0 0 0 0	Ŧ	

*Step 2:* Right-click a created Label, selecting the **Properties** option on popup menu to edit its properties.



# **Add Dimmer Slider**

*Step 1:* Click "Dimmer Slider on N-Button Lite Manager to show **Properties – Dimmer Slider** dialog. This dialog is used to show a static text or an image.

Properties - Dimn Name: Slider			
Orientation: Horizo	ontal 👻	Hint Text:	
Location		Size	
X: 10	Y: 10	Width: 150	Height: 30 🚔
Channel 0	Channel 16		Select All
Channel 1	Channel 17		
Channel 2	Channel 18		Select None
Channel 3	Channel 19		
Channel 5	Channel 20		
Channel 6	Channel 22		
Channel 7	Channel 23		
Channel 8	Channel 24		
Channel 9	Channel 25		
Channel 10	Channel 26		
Channel 11	Channel 27		
Channel 12	Channel 28		
Channel 13	Channel 29		
Channel 14	Channel 30		
Channel 15	Channel 31		
	ОК	Cancel	]

*Step 2:* Right-click a created Label, selecting the **Properties** option on pop-up menu to edit its properties.

Properties
Resize
Move
N-Button Pro Manager
Hide All Widgets
Move All
About
help

# **Add Camera Widget**

*Step 1:* Click "Camera Widget" on N-Button Pro Manager to show **Properties – Camera Widget** dialog. This dialog is used to set action and appearance for Camera Widget.

N Prope	rties - Camera Widget		8 ×
Name:	Camera Widget 1	Device:	Panasonic IP Camera 💌
Appear	ance		
- Loca X	tion : 768 Y: 173	Hint Text:	
Size	Auto Size Width: 200	Height:	200 🖨 Click Scale: 100 🖨
	ОК		Cancel

*Step 2:* Right-click a created Label, selecting the **Properties** option on pop-up menu to edit its properties.

	Properties
	Move
	N-Button Pro Manager
	Hide All Widgets
	Move All
	About
	help

# **Add PTZ Button**

Step 1: Click "Label" on N-Button Pro Manager to show Properties – Label dialog. This dialog is used to set action and appearance for PTZ Button widgets.

Name:	PTZ Button 1	Device: Panasonic IP Camera
Appeara	ance	
Style:	Standard Button	Hint Text:
Locati X:		Size Standard (50%) Vidth: 150 Vidth: 30 A
Caption	n: Button	Font: Arial, 12,1 ForeColor: BackColor:
PTZ Pan:	None	Tilt: None
	1	OK Cancel

L

*Step 2:* Right-click a created Label, selecting Properties option on popup menu to edit its properties.

PTZ Pan Left1		
	Properties	
	Resize	
	Move	
	N-Button Pro Manager	
	Hide All Widgets	
	Move All	
	About	
	help	

# Add Label

*Step 1:* Click "Label" on N-Button Pro Manager to show **Properties – Label** dialog. This dialog is used to show a static text or an image.

Properties - Label	
Appearance	
Style: Text 💌	Transparent Hint Text:
Location X: 10 Y: 10	Size Standard (50%) Vidth: 150 Vidth: 30 V
Text Caption: Static Text	Font: Arial,12,1 ForeColor: BackColor:
	OK Cancel

*Step 2:* Right-click a created Label, selecting the **Properties** option on popup menu to edit its properties.

#### Thi<u>s is a Label.</u>

Properties
Move
N-Button Pro Manager
Hide All Widgets
Move All
About
help

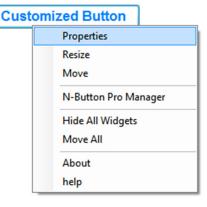
## **Add Customized Button**

*Step 1:* Click "Customized Button" on N-Button Pro Manager to show Properties – Customized Button dialog. This dialog is used to set action and appearance for Customized Button widgets.

Customized Button can be set to send specified data to any other connected devices besides relay boards. It also can be set to open a file, a folder or a program, run any application and send http request.

N Properties - Custom	nized Button
Name: Button2	
Appearance	
Style: Graph	ic Button 2 🗸
Location	Size
X: 10	Y: 10 Standard (50%)  Width: 150  Height: 30
Caption: Button	Font: Arial,12,1 ForeColor: BackColor:
Hint Text:	
Olick	
Do action when butto	
Click Action:	Action: None Setting
Press and Release	
Do different actions w	when button is pressed and released
Press Action:	Action: None Setting
Release Action:	Action: None Setting
	OK

*Step 2:* Right-click a created Customized Button, selecting the Properties option on pop-up menu to edit its properties.



### **Add Advanced Customized Button**

*Step 1:* Click "Advanced Customized Button" on N-Button Pro Manager to show Properties – Advanced Customized Button dialog. This dialog is used to set action and appearance for Advanced Customized Button widgets.

Advanced Customized Button allows you to control different devices at the same time. Several actions can be added and each action can work for a different device.

N Properties - Adva	inced Customized Bu	itton		8 23
Name: Button1				
Appearance		h Antina Californi		8
M Advanced Cu	stomized Button Clic	ck Actions Setting		
Name	Туре	Content	Comm	nents New
Action 1 Action 2	Send Data Wait Action	Dec : Wait 500 milliseconds		Edit
Action 3	Send Data List			
Action Setting				×
Action Name:	Action			
Action Type:	Send Data		-	
Device:	Send Data Run Application Send HTTP Request			
Data:	Send Data List Update Relay Status Wait System Action			Format: Dec 🔻
	None ore Sending: 0 er Sending: 0	ms ms		

*Step 2:* Right-click a created Label, selecting Properties option on pop-up menu to edit its properties.

Advanced Button
Properties
Resize
Move
N-Button Pro Manager
Hide All Widgets
Move All
About
help

# Exit

Right click N-Button Pro icon on status bar to show pop-up menu. Click **Exit** item to quit N-Button Pro.

N-Button Pro Manager Devices Manager	
Hide All Widgets Lock All Widgets	
Load from file	
About Help	
Exit	
Customize	
	3:14 PM 5/16/2013