

# C-more Computer Programming Connections

Using the **C-more** Programming Software EA9-PGMSW for project development, the touch panel can be connected to a PC (personal computer) in one of several ways:

- Connect a USB Programming Cable such as (USB-CBL-AB15) from a USB port type A on the PC to the USB type B programming port on the C-more touch panel. The USB connection is for direct connection only and does not support USB hubs.
- Connect the **C-more** touch panel to a PC with a Cat5 Ethernet cable via an Ethernet switch. Multiple panels can be programmed in this configuration.

Following are the minimum system requirements for running **C-more** Programming Software, p/n EA9-PGMSW, on a PC:

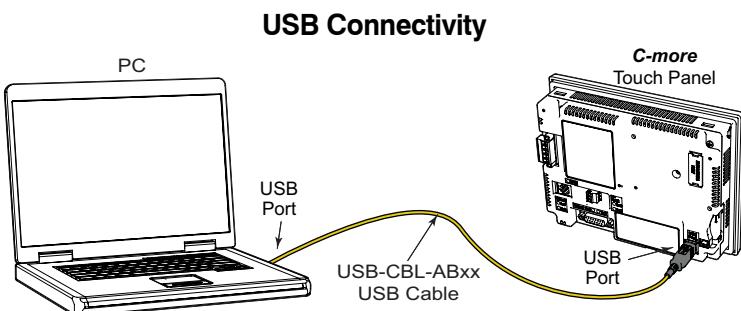
- USB or Ethernet connection to touch panel (cables sold separately).
- Operating System - Windows 7 (Pro, Ultimate, 32 or 64-bit) or Windows 8 (Pro, Ultimate, 32 or 64-bit)



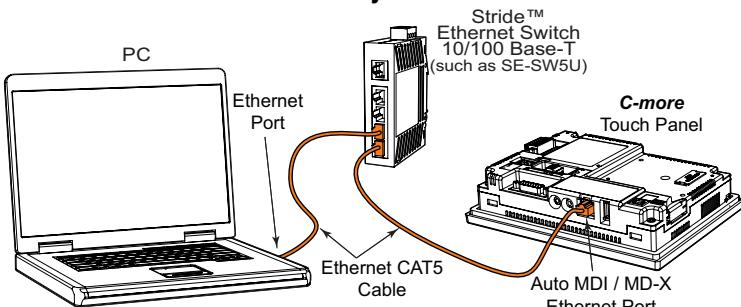
#### **NOTE: Regarding Ethernet access to a C-more panel.**

If you intend to take advantage of the methods of remote access to the panel, including the web server, PC remote access, FTP, iPhone or iPad app, you need to consider the security exposure in order to minimize the risks to your process and your C-more panel.

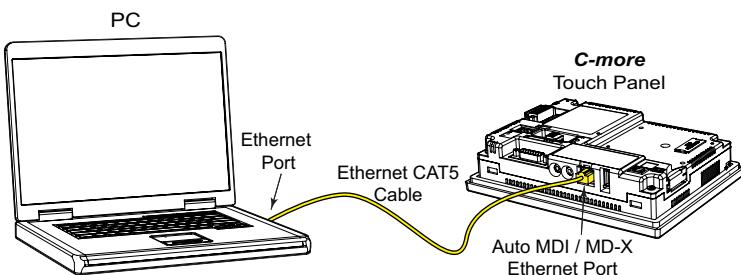
Security measures may include password protection, changing the ports exposed on your network, including a VPN in your network, and other methods. Security should always be carefully evaluated for each installation.



#### Ethernet Connectivity via a Hub or Switch



#### Ethernet Direct Connection



## USB Programming Cable



#### Part No. USB-CBL-AB15

\$22.50

Other lengths available see  
USB-CBL-AB3, USB-CBL-AB6, USB-CBL-AB10

## Stride™ Ethernet Switch



Message is sent out only from the port connected to destination device

#### Part No. SE-SW5U

\$99.00

## Ethernet Configuration Kit



#### Part No. RT-CNFGKIT

\$100.00

The Ethernet Configuration Kit includes a five-port 10/100 Base-T Ethernet switch, four straight-through cables, and one crossover cable. (The cables are at least five feet in length.) The kit provides a great convenience for configuring systems, demonstration systems or basic control projects using Ethernet.



# Programming Power...

## Powerful configuration software with legendary ease of use

C-more's mission is to make you feel like a touch panel configuration expert. So we put in many tools to make your job go faster and more efficiently. Even simple things, such as object configuration boxes, have improved. We think you'll be able to do more with C-more in even less time!

**Save your screens in the Screen Library to use with other projects**

**Thumbnail project preview window helps you organize multiscreen projects. And you can rearrange the screens with a drag & drop of your mouse**

**Select background screen, and background color, with one click!**

**Build your own keypads to use with numeric and text entry**

**Click on the Library tab to view libraries of personally stored objects, screens, sound bites, etc. This saves hours of work!**

**Scrolling object selection window lets you find the object you want fast. Just drag and drop it on the screen.**

**Scrolling parts list shows variations of the objects selected above. Just drag and drop on the screen.**

**Lock/Unlock Object-** This editing tool disables edits to objects that are locked. Once Locked, the object will remain locked and saved within the software. Reduces edit mistakes to objects when multiple users may be accessing or editing a project.



**Hide/Unhide Object feature-** This editing tool allows hiding objects that may interfere with editing other objects on the screen, such as Pop-up window objects.



**Hardware manuals and help files** are a few clicks away. Need more? Follow the links to C-more's online library of objects and sound bites, or visit C-more's online forum.

Object Layer List								
Lay...	Object Type	Object Name	Width	Height	Top	Left		
1	Bar Meter	BarMeter1	140	120	370	20		
2	Digital Clock	DigitalClock1	290	40	10	490		
3	Group	Group1	140	300	60	20		
3-1	Numeric Display	NumericDisplay1	120	50	290	30		
3-2	PushButton	Pushbutton3	120	50	220	30		
3-3	PushButton	Pushbutton2	120	50	150	30		
3-4	PushButton	Pushbutton1	120	50	80	30		
3-5	Frame	Frame1	140	300	60	20		
4	Screen Selector	ScreenSelector1	780	80	510	10		
5	Slider	Slider1	570	90	250	190		
6	Line Trend Graph	LineTrendGraph1	560	120	370	200		

**Grouping Control:** expand or collapse Grouped objects. Access individual objects in a group without having to separate the group or move objects on the screen.

# Powerful Database Tools

## Customize your searches

Easily edit C-more's databases with the latest software tools. Create, import, export and search for tags and other datatypes

with a click of a button. Powerful search filters allow for custom search terms based on various options.

No.	Enable	Event Name	Event Type	Alarm	Tag	Tag Copy	Sound	Msg Box
1	<input checked="" type="checkbox"/>	Pump1 Pressure Low	Tag	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
2	<input checked="" type="checkbox"/>	Water OFF	Tag	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
3	<input checked="" type="checkbox"/>	Math 1	Tag	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
4	<input checked="" type="checkbox"/>	Alarm 4	Tag	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
5	<input checked="" type="checkbox"/>	multi state control	Tag	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
6	<input checked="" type="checkbox"/>							

Customize and save your own search terms for those most used items.

Device type filters allow you to reduce the view to just the device tags you want to find or edit.

Data type filters allow you to reduce the view to just the specific tag data types you want to find or edit.

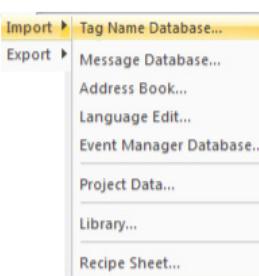
## Database Import & Export saves you time

The Import and Export tools allow you to quickly exchange database files between C-more projects, or PLC tagname files. With just a few clicks of the mouse, you can create a .csv or

xls file. This greatly reduces the time needed to create a new database, especially when there are hundreds, or thousands of data points to work with.

## Import or Export

- Tagnames
- Messages
- E-mail Addresses
- Languages
- Events
- Project File
- Screen Library
- Graphics Library
- Object Library
- Sound Library
- Recipe Sheets



A	B	C	D
1	ProtocolID	DeviceName	TagName
2	409	MX1100	AXIS_0_POSITION
3	409	MX1101	CONSOLE_PB_LAMP
4	409	MX1102	COUNTERS[0].ACC
5	409	MX1103	COUNTERS[0].CD
6	409	MX1104	COUNTERS[0].CU
7	409	MX1105	COUNTERS[0].DN
8	409	MX1106	COUNTERS[0].OV
9	409	MX1107	COUNTERS[0].PRE
10	409	MX1108	COUNTERS[0].UN
11	409	MX1109	COUNTERS[1].ACC
12	409	MX1110	COUNTERS[1].CD
13	409	MX1111	COUNTERS[1].CU

## Importing PLC tags is easy

With supported PLC databases, simply export the PLC tagnames and use the C-more import tool to select the .csv or xls file.

Company Information

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CLICK PLC

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Do-More T1H PLC

DirectLOGIC PLC05/06

DirectLOGIC DL105

DirectLOGIC DL205

DirectLOGIC DL305

DirectLOGIC DL405

Productivity Controller Overview

Productivity 3000

Universal Field I/O

Software

C-more HMI

C-more Micro HMI

ViewMarq Industrial Marquees

Other HMI

Communications

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# Productivity Tools: Built-in Simulator

## Built-in project simulator pays for the panel in time savings!

The “one click” built-in simulator is one of **C-more**’s most powerful features. You will find yourself using this feature every couple of minutes while developing your project. Using this intuitive simulator will result in a better looking and more effective project completed in less time.

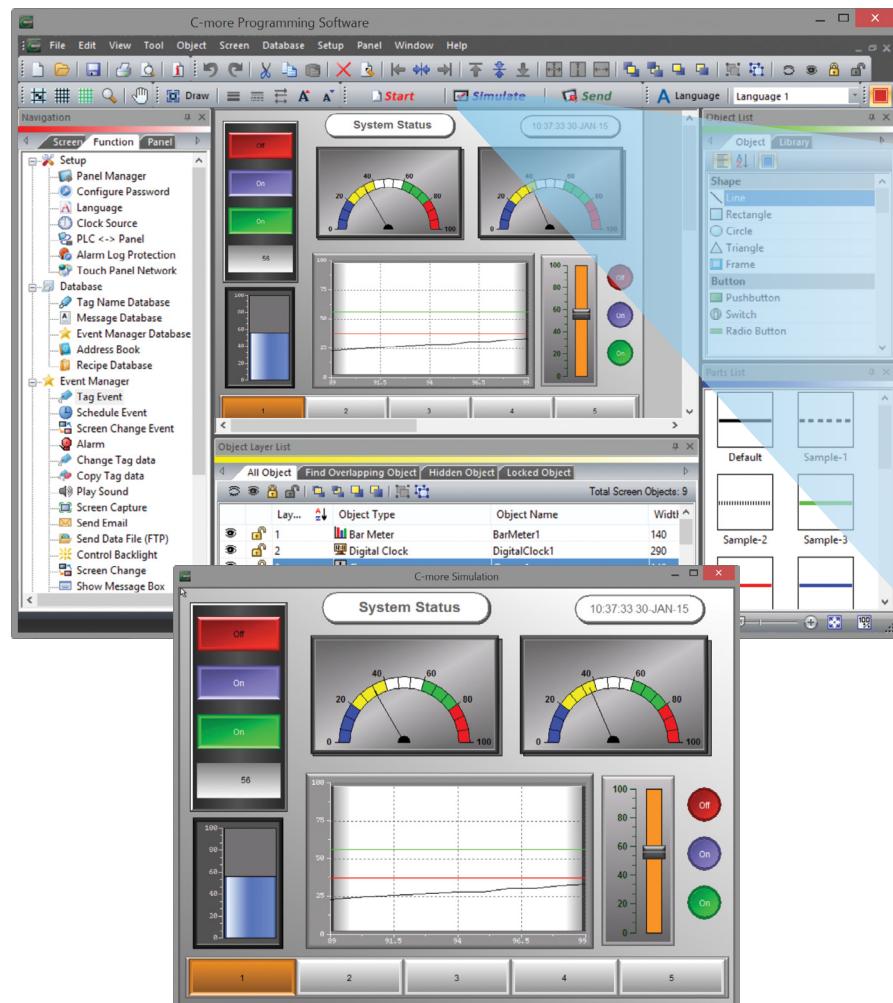
The simulator allows you to fully simulate your entire project (every object, every screen) while it is being developed, without being connected to a touch panel or PLC/PAC. Simply click on the “Simulate Project” button at any stage of project development. A window will appear over your development screen that contains a pixel-for-pixel representation of how your project will appear on your physical **C-more** panel. A simulation control window will also appear.

Now the fun begins. Simply click your mouse on any simulated screen object and it will behave as if your finger is actually touching a **C-more** panel. For example, clicking on a pushbutton object will activate and deactivate it as if an operator were touching it!

The same will be true for thumbwheels, slider switches, selector switches, toggle switches and so forth. Want to see how an analog meter moves based on dynamic data from the PLC/PAC? Simply move your mouse to the “Simulation control window” of the simulator, move to the tag and click on the data you wish to change. Now type in the value that you want to simulate, and watch your meter move on the simulated screen.

And here’s the really cool thing - whatever values you modify during simulation, the effect will be propagated throughout your entire project, object by object, screen by screen. That’s because this is a true “project simulator”.

To stop the simulation, just click on your project development screen and you’re back to project configuration. You can go back and forth in a flash. It’s that easy!



The simulation control window shows the list of screens and the tags, with their values, for the highlighted screen in the list.

Simulation			
Screen List		Tag List	
Tag Name	PLC Address	Data Type	Value
ENGAGEALARM4		Discrete	OFF
PB1		Discrete	OFF
PB2		Discrete	OFF
PB3		Discrete	OFF
PRODUCTION ...		Ascii String	
PRODUCTION ...		Ascii String	
SLIDE		Signed int 16	55
SLIDE2		Signed int 16	0
SYS BIT ON		Discrete	ON
SYS COUNTINT...		Unsigned int 32	500

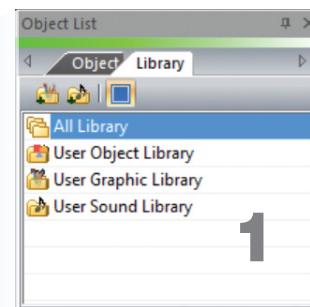
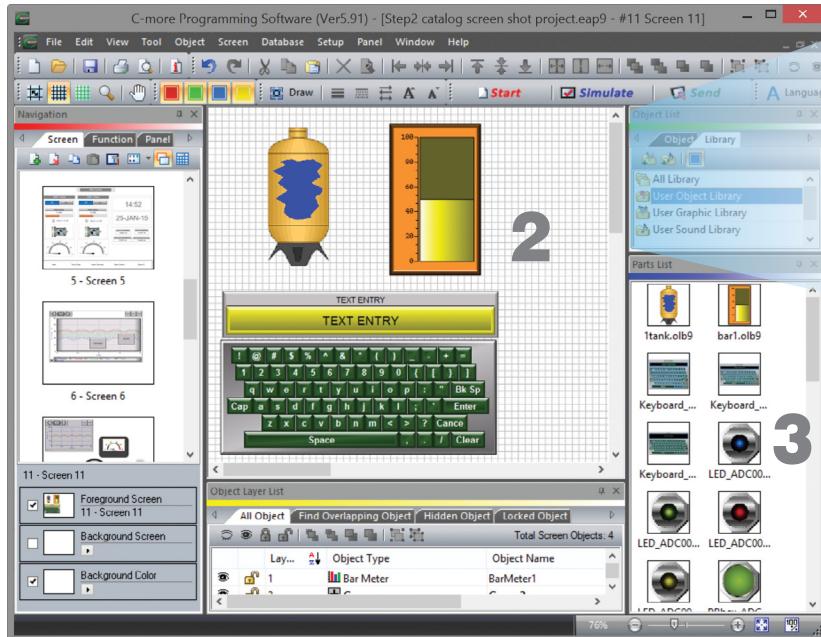
For objects tied to bit or analog data, change actual values here in the tag list, then verify the correct behavior on the screen. You can also change input data on the simulated screen and see the value change in the tag list.

# User Libraries, and Project Migration

## User libraries allow you to re-use your work again and again

C-more provides three user libraries that allow you to efficiently re-use your work throughout your project or for other projects in the future. You can store a custom object, such as your company logo or a group of objects that compose a custom object (see the tank with cut-away and bar

graph below). You can also store entire screens, graphics and sound bites. You can access your libraries at any time and re-use your work by merely clicking on the saved item and dragging it from the library into your project. You can even import and export library items to share with other designers.



- 1** Object, graphic and sound libraries
- 2** Create, store and retrieve your:
  - Custom objects
  - Entire screens
  - Sound bites
- 3** Re-use your work in this project or future projects

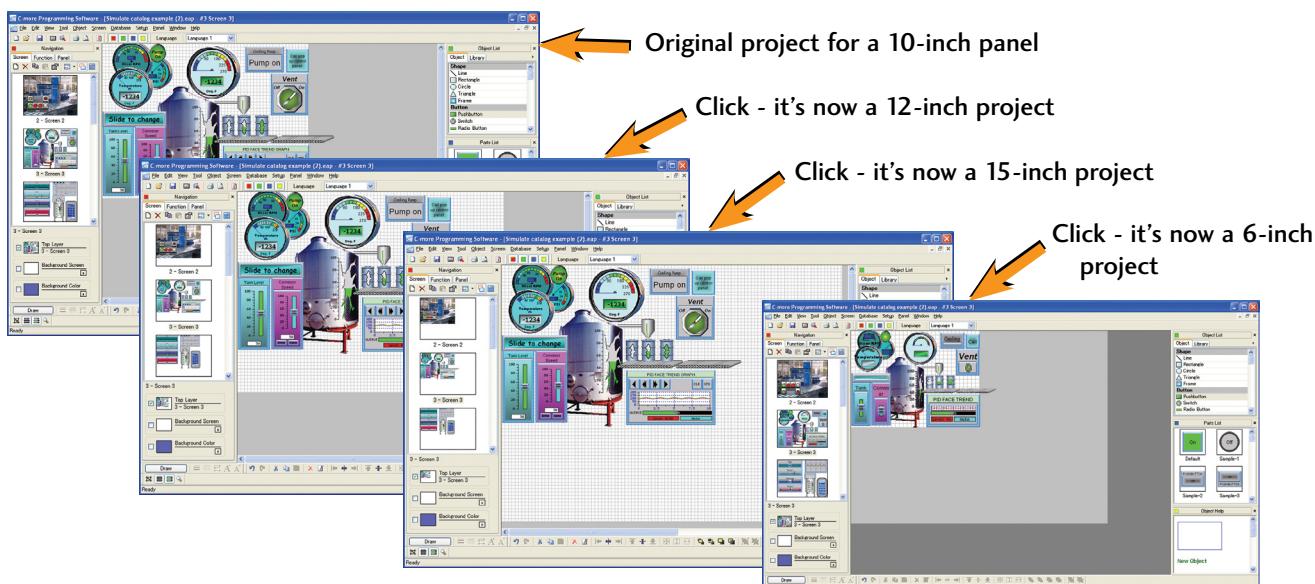
Check out our online library at: [c-more.automationdirect.com/support\\_tools/library.html](http://c-more.automationdirect.com/support_tools/library.html)

## Change your project screen size with a click of your mouse

Imagine developing your project on a 10-inch panel and then deciding to change the size to a 15-inch panel or an 8-inch panel. In the past, you most likely had to recreate your entire project and reconfigure every object, tag and screen.

With C-more, your project can be automatically converted for

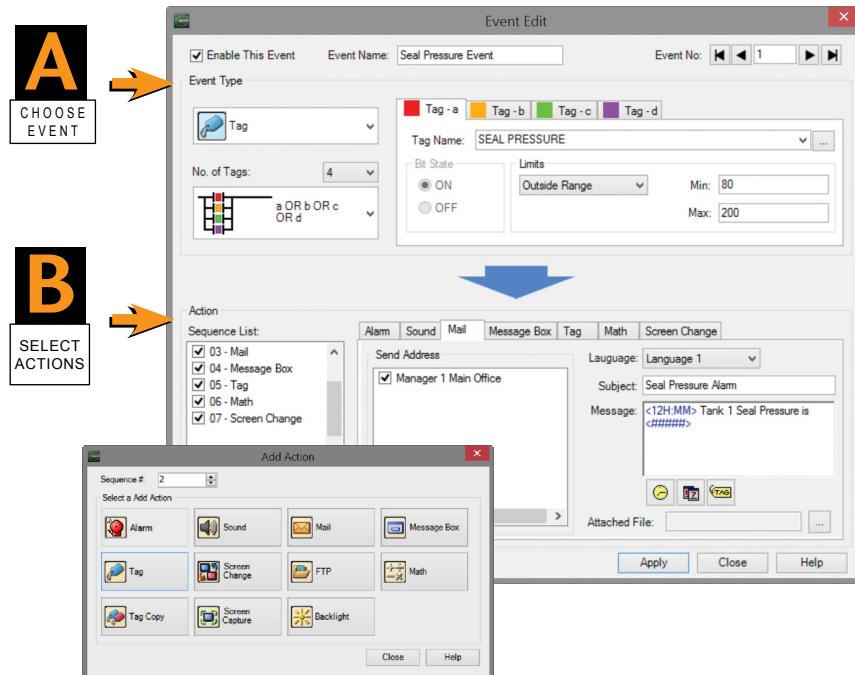
a different size display with a click of the mouse. Of course, you may wish to move things around a little since you have a different screen size. This feature is great for OEMs or integrators that may be installing different configurations of the same machine or process.



# Powerful Event Manager Triggers Alarms and Actions

## Fill-in-the-blank Event Manager saves time, PLC/PAC programming and memory

C-more provides a powerful yet easy-to-use Event Manager which takes exception handling (including alarms) and scheduling to the next level. The simple fill-in-the-blank manager allows events to automatically trigger several actions without the need for hours of PLC/PAC programming.



**On the Event Manager screen, create an event, enter the required data, and select multiple actions. It's that easy!**

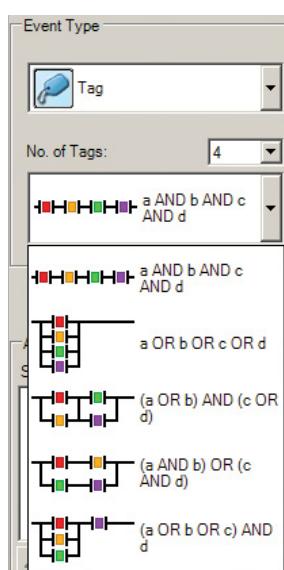
The Event Manager goes beyond simple Alarm and Message functions, and allows C-more to take action based on events such as:

- Tag status or value
- A combination of tag status or values
- Date or time
- A screen change

The Possible Actions include:

- Create an alarm
- Play a sound
- Write values to tags
- Copy tag values
- Send e-mails (with embedded tag data!)
- Force screen changes
- Capture screen image
- Pop-up messages (with embedded tag data!)
- Send files via FTP
- Carry out math formulas

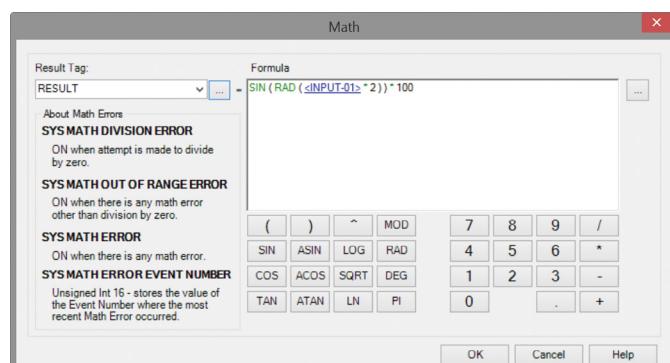
## Tag Combinations allow for simple logic with multiple events



Combine up to four different tags into simple logic events that will trigger actions.

## Math Actions add more power to your project

Create a custom formula or use the Math Keypad to create formulas with Constants or even Tag Values. The Result is placed into a User Defined Tag.



1234+SIN(<TAG>+PI(123)+LOGa

- Numbers in Black
- Tags in Blue
- Calculations and Functions in Green
- Errors in Red

# Convenient Recipe & Alarm Functions

## More flexible recipes reduces programming effort

*Recipes make it easy to make large numbers of tag changes with the push of a single button.*

C-more provides tremendous flexibility and capacity to applications that require multiple recipes. It has a simple recipe button that supports 99 recipe sheets, each with 1000 recipes of 256 possible #tags or values. C-more recipe values can be modified and saved on the fly by the operator while the machine is running.

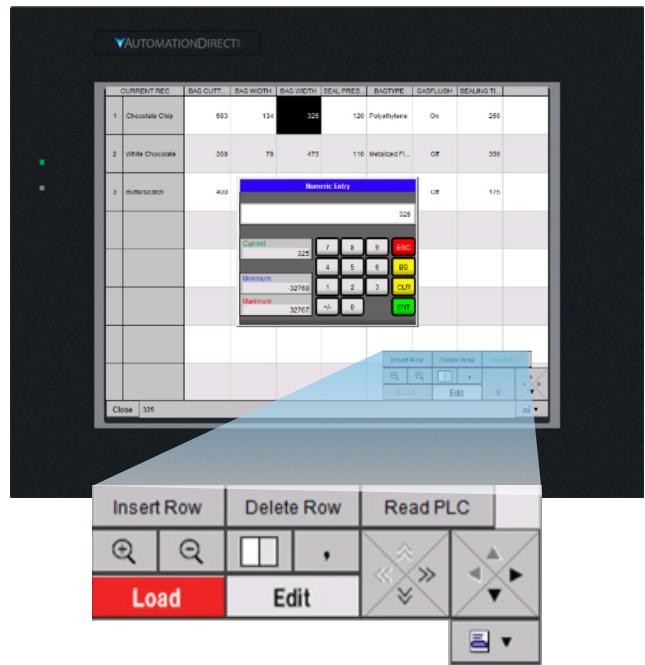
## Spreadsheet-based Recipe Creation

Recipe Sheet - Cookies							
Name	A	B	C	D	E	F	G
1 Chocolate	503	134	325	1:20	Polyethylene	On	250
2 White Ch	368	78	475	110	Metallized Film	Off	350
3 Butterscotch	400	257	425	200	Metallized Poly	Off	175
4							
5							
6							
7							
8							
9							
10							

Select tags with one click

Insert constant values or select a tag

- New Recipe Database
- 99 recipe sheets
- 1000 recipes per recipe sheet
- 256 possible tags or values
- Load recipe data directly to PLC registers
- Operator editing of recipes while running



## Alarm List Object offers detailed alarm management for operators

Alarms are used to notify operators of critical situations that may arise during a process. The Alarm List Object allows operator interaction with alarms that have occurred and allows operators to view, confirm or clear the alarms. Alarms can include specific messages with embedded PLC tag data as well as, date and time information for the alarm status. Alarm status can be color coded to help operators quickly interpret the status for each alarm.

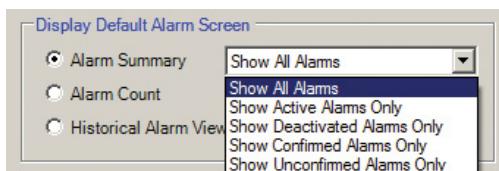
The Alarm List Object allows alarm details to be displayed and logged for future reference

Alarm Summary						Total of 4 Alarms	
Message		Confirm	Activated	Confirmed	Deactivated		
Chocolate Chip Low	Required	15/02/28 09:35:53			15/02/28 09:36:00		
Butterscotch Low	Required	15/02/28 09:35:53					
Cookie Monster Alert		15/02/28 09:35:38	15/02/28 09:35:49				
Furnace Overtemp		15/02/28 09:34:43	15/02/28 09:34:57				

Icons help to see alarm states

Color code the alarm status

The Alarm List Object can be filtered to show alarms based on status.

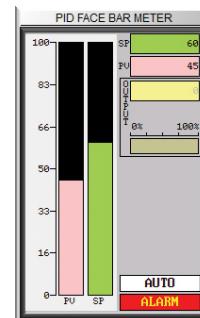
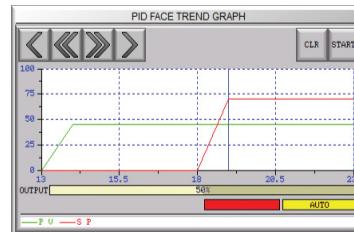
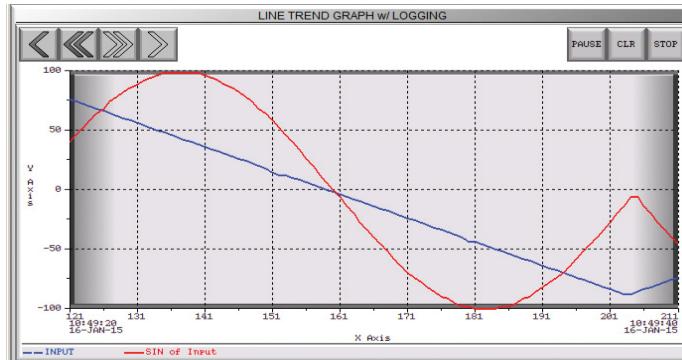


# Trends, Logging and Control Options

## Trend graphs, PID faceplates, true historical data logging

**C-more**'s trend graph supports 16 pens, selectable to be hidden or shown by the operator. Show only the trends you wish to see, when you wish to see them. In addition, the full featured **C-more** units support data logging to SD cards or USB memory devices. Gigabytes of trend data can be stored,

limited only by you. The information can also be sent from **C-more** to your PC over the Internet, triggered by an event. **C-more** also has the standard PID faceplate and an enhanced version which shows trend data of the setpoint process variable and control variable.



**Log to SD card/USB**

- 16 pen trends
- PID faceplate
- PID with trend faceplate
- Each pen can be turned on/off
- True historical data logging



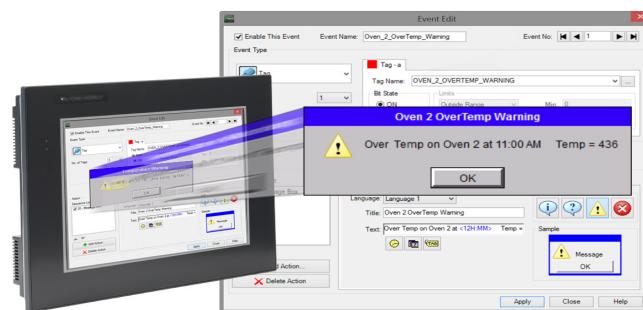
## Pop-up windows for information and control

Use Pop-up Window Frames to overlay information or to provide extra controls on top of other screens. Operators can reposition the pop-up anywhere on the screen or close the pop-up when no longer required. Pop-up windows are created just like the other objects in the project, and can include a portion of any **C-more** screen (except other Pop-ups - no cascading available).



## Pop-up Message Boxes for critical events

Create Pop-up Message Boxes in the Event Manager. You define the trigger criteria, and then select "Message Box" as the "action". You can type in a short message to appear in the box, and select an icon to display with your message. You can even include tag data, and date/time information in the message. The operator must click the OK button in order to clear the message box. You can also log an alarm at the same time the message box is activated via the event manager (along with many other actions).



# Fonts and Animation

## Built-in fonts

**C-more** has 14 different fonts for objects such as pushbuttons, indicators, meters and so on. These fonts are used for object-integrated labels and ON/OFF phrases for each of **C-more's** standard objects. Each font can be bolded, italicized and underlined. Fonts can be scaled to hundreds of sizes, giving you extreme flexibility.



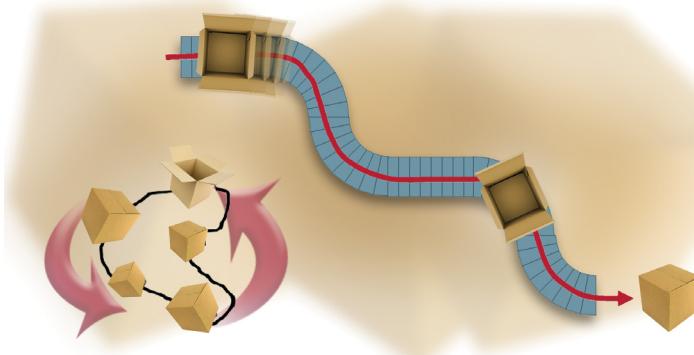
Object Fonts

## Built-in animation makes the process come to life

Virtually any bitmap object (from your PC hard drive, the built-in 4,000 symbol library, custom-drawn, etc.) can be animated to follow a straight line or a scribbled path. In addition, the object can change size or orientation (rotation).

### 5 types of animation (any combination)

- Straight line... X or Y
- Scribbled path with up to 64 points
- Rotational
- Change size
- Multi-State Bitmap



A bitmap object (picture of cardboard box) follows a curving path along a conveyer (the path can be hidden). The box can rotate around the bends in the path and even change sizes. The bitmap changes toward the end to a closed box shape.

Need even more fonts? Use any of the dozens from your PC as "Bitmap Text". (Although bitmap text cannot be used as an integral part of standard objects, they can be used for a wide variety of static annotations.)



Bitmap Text Fonts

Of course, the object can also do any combination of actions as well. Best of all, the animation process is very straightforward. You will be animating your first object in as little as a few minutes!

#### Axis Animation:

PLC tag values dictate the actual screen position of an object. Move objects along a single axis or use different tags for simultaneous X-Y position control.

#### Point Animation:

Define a path with up to 64 points for point-to-point object motion, or use "ratio" mode to move smoothly along a path. Scaling of PLC tag values to the path positions is optional.

#### Object Rotation:

Control rotation of an object based on the value of a PLC tag. Also allows scaling of tag values to angular values.

#### Object Size:

Control the size of an object based on PLC tag values. Independent X and Y-axis scaling of object size is possible, along with scaling of the tag values.

#### Multi-State Bitmap:

Use up to 16 different bitmap images to animate changes in the appearance of an object.

#### Benefit:

Animations of machine motion and factory processes enhance comprehension, and give operators a visual representation of the desired motion of products, and machinery on screen.

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Productivity Controller Overview

Productivity 3000

Universal Field I/O

Software

C-more HMI

C-more Micro HMI

ViewMarq Industrial Marquees

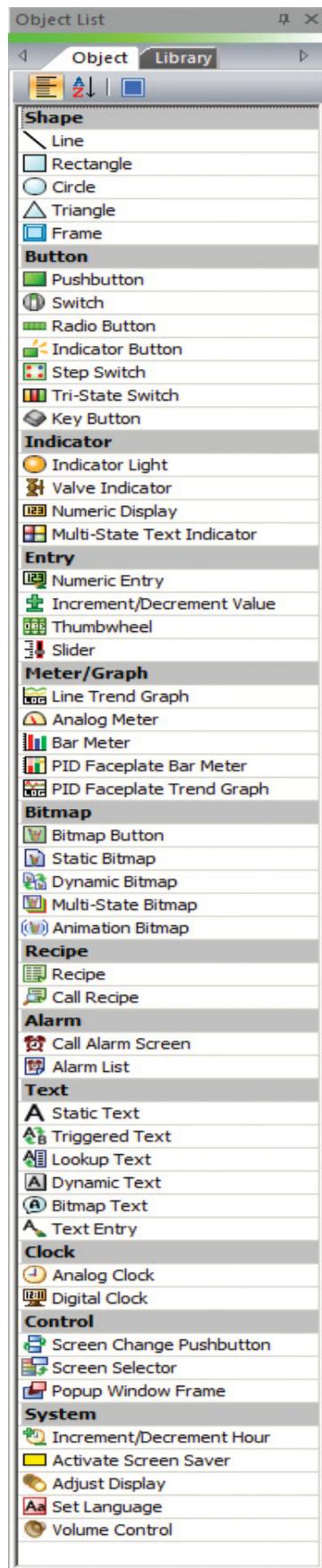
Other HMI

Communications

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# Wide Array of Objects and Customized Parts



Here are just a few of the more than 50 types of objects in the standard Object List

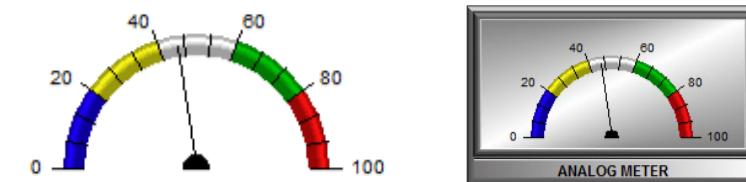
## Pushbuttons



## Indicator Lights



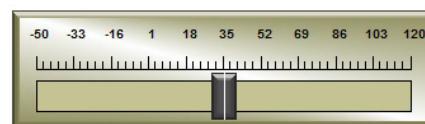
## Analog Meters



## Switches



## Slider Switch

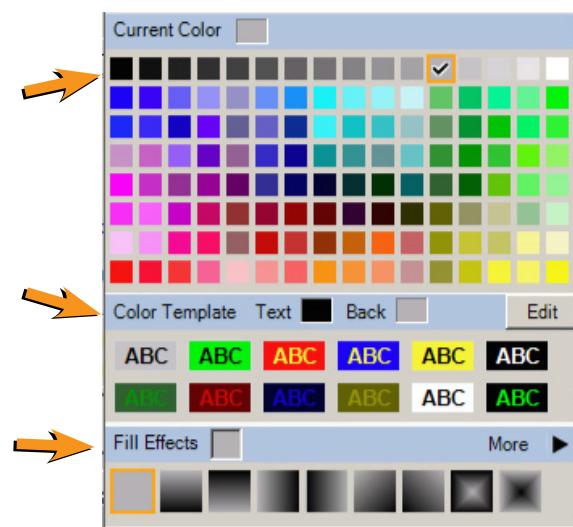


## Personalize your screens

Object Format options make personalizing your screen objects simple. Select the colors, frames, and background effects with just a few clicks of the mouse.

Choose from the default color templates or create and save your own templates to use as often as you like.

Backgrounds for many objects support gradient fill effects that make them stand out.



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C-More Micro HMI

ViewMarq Industrial Marquees

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### Tri-State Switch



### Thumbwheel



### Dynamic Bitmap



### Set Language

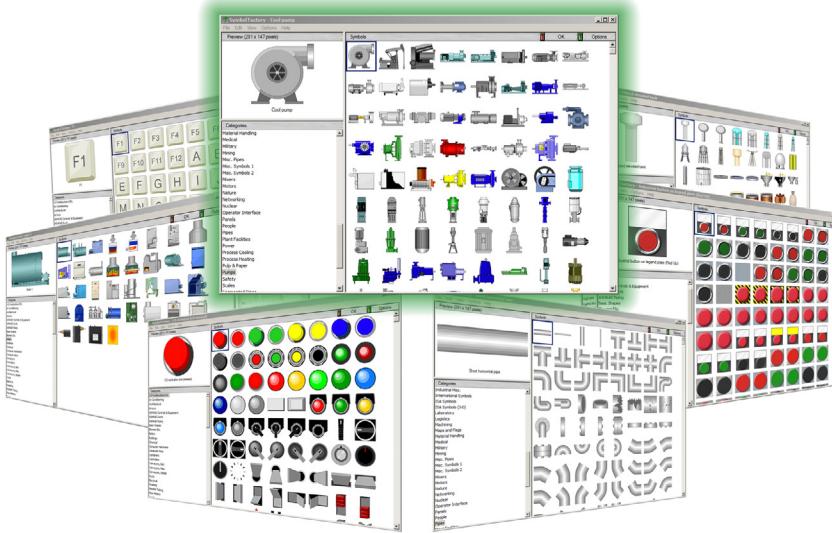


### Bitmap Text

Use any font  
on Your PC

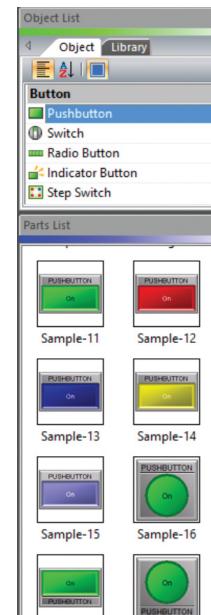
## Over 4000 industrial graphics with Symbol Factory

Select from 80 different categories offering vector graphics that can be scaled up and down in size without loss in image quality. Free Cutaway Control is also included for doing tank type fills. If that is not enough, you can always use your own bitmap graphics with the same objects.



## Hundreds of pre-configured parts

C-more also provides ready-made "parts" (versions of each default object) that are available to drag and drop into your project. Select any object to see preconfigured parts in the Parts List. Select the one that most closely matches your needs - and customize it even further, if you like. Then save it in the user library for future use.



## Create custom objects

Use a combination of C-more objects and parts to create your own objects, or even entire sections of screens.

