# THE INDUSTRY LEADER IN ALL-IN-ONE CONTROLS



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#### INDUSTRY LEADING ALL-IN-ONE CONTROLLER

For years, the Horner XL and XL Prime Series have enjoyed a reputation as the most highly functional All-in-one Controllers available anywhere. These products are currently trusted with thousands of applications world-wide.

The NEW Canvas Collection builds upon that proven reputation. Horner's Canvas Series of OCS controllers is just as the name implies - a new canvas for users to utilize a brand new set of enhanced graphics objects in Cscape 10 to give full creative freedom to create screens as technically advanced or as visually stunning as they desire. Take advantage of single touch swipe gestures and a redesigned system menu to build your application for the modern world. The Canvas Series also supports WebMI+ as the next iteration of one of the best remote access tools for your OCS controllers, and also offers MQTT Sparkplug, numerous CAN protocols and Enhanced IEC programming support right out of the box with no licensing fees.

If you are a new automation designer looking for an innovative, reliable control solution - the Canvas Collection offers a fully integrated product in hardware and software. If you are an existing XL Series or XL Prime Series user - your current application program will port straight through in less than 30 seconds. In either case you can't go wrong!

- ALL-IN-ONE CONTROL performs all machine functions in a unified hardware design; logic control, operator interface, I/O and networking.
- VIBRANT COLOR TOUCHSCREENS Design modern and responsive machine control dashboards.
- ALL NEW GRAPHICS OBJECTS Designed from the ground up with all-new graphics. Trending, recipes, alarms - all redesigned with a modern look and fully featured.
- MULTI-CORE MICROPROCESSOR Fast, consistent scan times with separate, dedicated CPU cores for logic and graphics
- FLEXIBLE LOGIC LANGUAGES Use the logic language of your choice - Advanced Ladder Logic or the IEC 6-1131 languages.
- INDUSTRIAL ETHERNET Fast and flexible Ethernet with Ethernet IP, Modbus TCP, BACnet IP: FTP file transfer and Email.
- IIOT & REMOTE CONTROL-Push data to the cloud with MQTT Sparkplug. Remotely monitor and control the machine with WebMI+ from a web browser. No extra licenses required!
- OCS360 CLOUD SERVICE READY Canvas is pre-configured to support Horner's upcoming OCS360 Cloud Service

#### **PROGRAM CANVAS USING CSCAPE 10**

To support all the major innovations we have packed into Canvas. we're introducing Cscape 10 - a major update to our free application development software. With Cscape 10, you'll develop graphics screens in tabs side-by-side with your logic routines. And with Canvas your screens can take advantage of fully redesigned objects such as our all-new Alarm Handler, Recipe Editor and Video Player. If graphs and trends are a critical element of your machine - Canvas offers all-new XY Graphs, Scatter Graphs and Trend Graphs. Trend Graphs support up to 16 pens, multiple Y-Axes and historical logging to microSD.

#### SMALL FOOTPRINT, EASY-TO-USE WITH PLENTY OF I/O

With fully integrated hardware and software. Canvas offers easier programming, installation and set-up than a separate PLC and HMI in a smaller footprint. Does your system require a lot of I/O? Canvas is not limited to on-board I/O only. Easily expand your I/O system using OCS-I/O, our innovative new Horner I/O system. Or choose one of our other established I/O series including SmartRail, SmartStix or SmartBlock. Add I/O in the same control panel or distribute it on the machine or throughout the facility. Whatever fits your requirements.

#### CONNECTIVITY

Canvas is designed to connect seamlessly in almost any environment. For the factory, Ethernet IP and Modbus TCP interact easily with just about any automation component. BACnet IP is the choice in modern Building Automation systems. With CAN, add I/O (CsCAN), connect to a fieldbus (CANopen) or mobile network (J1939). And with RS232/485 use Modbus RTU or another protocol to interface to variable frequency drives, bar code scanners or legacy equipment.

#### **IIOT & AI READY WITH MQTT**

Canvas also fully enables your machine for Industry 4.0 - the Industrial Internet of Things (IIoT) revolution. Canvas is preconfigured to connect to the Horner Cloud - OCS360. If you opt-in to this data collection service - you'll be gathering machine data in no time - collecting data you'll need in the future for data hungry advancements like AI Machine Learning.

If Inductive Automation® Ignition is your SCADA of choice. Canvas' built-in MQTT Sparkplug will push data to Ignition efficiently.





#### **BUILT-IN DIGITAL & ANALOG I/O**

	DIGIT		ALOU	., 0				
	DC In	DC Out (+)	Relay Out	HSC In∗	Pulse Out**	mA/V In	mA/V RTD/TC (Universal)	mA/V Out
Model 1 <sup>†</sup>	4	4		4	2	4		
Model O								
Model 2	12		6	4		4		
Model 3	12	12		4	2	2		
Model 4	24	16		4	2	2		
Model 5	12	12		4	2		2	2
Model 6	12	12		4	2		6	4

\*shared with total DC inputs \*\*shared with total DC outputs <sup>†</sup> Model 1 applies to the Canvas 5 only

#### **BUILT-IN I/O OPTIONS**

HE-XDAC007	2-channel Analog Out (mA/V)
HE-XDAC107	4-channel Analog Out (mA/V)
HE-XHSQ	24V Dual High Speed Output
HE-XHSQ-5	5V Dual High Speed Output

#### CANVAS COLLECTION PART NUMBERS

Model	Model O No I/O	Model 2	Model 3	Model 4	Model 5	Model 6
Canvas 5	HE-CV-043C-01 -	Model 1, see speci	fications above			
Canvas 4	HE-CV-035C-00	HE-CV-035C-02	HE-CV-035C-03	HE-CV-035C-04	HE-CV-035C-05	HE-CV-035C-06
Canvas 7	HE-CV-070C-00	HE-CV-070C-02	HE-CV-070C-03	HE-CV-070C-04	HE-CV-070C-05	HE-CV-070C-06
Canvas 7D	HE-CV-070D-00	HE-CV-070D-02	HE-CV-070D-03	HE-CV-070D-04	HE-CV-070D-05	HE-CV-070D-06
Canvas 10D	HE-CV-101D-00	HE-CV-101D-02	HE-CV-101D-03	HE-CV-101D-04	HE-CV-101D-05	HE-CV-101D-06

#### **CANVAS REMOTE I/O OPTIONS**

0CS-I/0	Base offers 2 Flexible Inputs (Digital or Analog), 1 Digital Output, 1 Universal Analog Inputs, 1 Analog Outputs. Add-on modules available for expandability.		
SMARTRAIL	Expands the I/O capacity of any Canvas controller. Uses either CANbus or Ethernet communications and can be installed locally or remotely.		
SMARTBLOCK	Provides easy configuration and network expansion using CsCAN communications.		
SMARTSTIX	A cost-effective options as expansion or remote I/O which is also compact. Uses CsCAN communications.		

#### WebMI+ & OCS360 - TAKE (REMOTE) CONTROL

Canvas includes WebMI+, to monitor or control your machine from the palm of your hand using any mobile device or web browser. Your remote view can match Canvas screens exactly, or be developed using Cscape 10 as custom, high resolution web views. WebMI+ screens are published directly from Canvas OCS. But future Horner services will provide a variety of site management capabilities - including serving up WebMI+ web pages at a high bandwidth with more simultaneous views.



### Configure WebMI+ in Cscape 10

Implement your OCS web pages without any manual HTML development.

#### User Level Security



Choose View-only or Full Control - Object by object & user by user

#### **IIOT - Industrial Internet of Things**

Instantly connect to your automated applications for instant status and live data.

#### HTMI 5

Deliver Machine Snapshots or Custom Web Views to anv web browser

#### Scalable Vector Graphics (SVG)

Sharp, clear, and professional screens regardless of the device or screen resolution.

#### Future Ready with OCS360

Canvas is pre-configured to support Horner's upcoming OCS360 cloud service





CSCAPE 10





## CANVAS COLLECTION —



THE WORLD'S MOST ADVANCED ALL-IN-ONE CONTROLLER **JUST SURPASSED ITSELF!** 







	FEATURES
	Ladder Logic Memory
	Logic Scan Rate
	Removable Memory
Controller	Local Comment Storage
	Floating Point Support
	AutoTune PID Capable
	Characters/Pixels
	Display Technology
	Brightness
Operator	Character Height
Interface	Number of Screens
	Fields or Objects per Screen
	Function Keys
	OEM Faceplate Available
	Built-in I/O points
	Add on - SmartStix, SmartRail, SmartBlock, SmartMod
	Digital Inputs/Outputs, Max
I/O	Analog Inputs/Outputs, Max
	General Purpose Registers (words)*
	General Purpose Internal Coils (bits)
	Ethernet Support
Ethernet/	Remote Access
Internet	Remote File Access
	WebMI Compatibility
	Serial Ports
	RS-232 Ports/RS-485 Ports
Serial	PLC/Drive Protocols
ommunications	RTU/Modbus Master/Slave/Serial ASCII In/Out
	USB Port - USB 2.0 port A
	USB Port
	CAN Network Support
Networking	Maximum CsCAN Distance**
	Programming Over Network
	Peer-to-Peer Messaging
Physical Specifications	Height (inches/mm)
	Width (inches/mm)
	Depth (inches/mm)
	I/O Module Depth
_	Operating Temperature
Operating	Humidity (non-condensing)
Specifications & Standards	Product Certifications/Approvals
& Standards	Environmental Rating
ctual retentive register	count may vary from model to model, please contact factory for more d



Canvas 4
2MB
0.02mS/K
microSD
Yes
Yes
Yes
320x240
3.5" QVGA
640 nits
Selectable Fonts
1023
1023
4 + System Key
Yes
22 - 42
CsCAN & Ethernet
2048 / 2048
512 / 512
50,000
32768 (16384 ret.)
Standard
HTTP or EnvisionRV
FTP or EnvisionFX
Yes
2
RS-232 & RS485 (1 of each)
Yes
Yes
Datalog & Backup
Mini B - Programming Only
CsCAN, CANopen, DeviceNet, J1939
1640 ft.
Yes
Yes
3.78" / 96.0 mm
3.78″ / 96.0 mm
2.26" / 57.5 mm
COM opt adds 0.5"/13mm depth
-10 to 60°C (-40°C option available)
5 to 95%
UL Class 1 Div II, CE
UL Type 1, 3R, 4, 4x, 12, 12k, 13



Canvas 5
2MB
0.02mS/K
microSD
Yes
Yes
Yes
480 x 272
4.3" LCD with LED
450 nits
Selectable Fonts
1023
1023
4 + System Key
Yes
12
CsCAN & Ethernet
2048 / 2048
512 / 512
50,000
16384
Yes
EnvisionRV
EnvisionFX
Yes
2
RS-232 / RS485 (x2)
Yes
Yes
Datalog & Backup
Mini B - Programming Only
CsCAN, CANopen, DeviceNet, J1939
1640 ft.
Yes
Yes
3.79" / 96 mm
4.92" / 125 mm
1.22" / 31 mm
COM opt adds 0.5"/13mm depth
-10 to 60°C
5 to 95%
UL Class 1 Div II, CE
UL Type 1, 3R, 4, 4x, 12, 12k, 13
טב ואָפָר ו, טוע ידן דאן ובן ובוע וט

\*Actual retentive register count may vary from model to model, please contact factory for more details \*\*Please refer to CsCAN Installation Manual

## CANVAS COLLECTION



Canvas 7     2MB     0.02mS/K     microSD     Yes     Yes     800 x 480     7" WVGA     420 nits     Selectable Fonts     1023     5 + System Key     Yes     22-42     CsCAN & Ethernet     2048 / 2048     512 / 512     50,000     32768 (16384 ret.)     Standard     HTTP or EnvisionRV     FTP or EnvisionFX     Yes     3     RS-232 &/or RS485     Yes     Datalog & Backup     Mini B - Programming Only     CsCAN, CANopen, DeviceNet, J1939     1640 ft.     Yes     Yes     Yes     Yes     Yes     Yes
0.02mS/K     microSD     Yes     Yes     800 x 480     7" WVGA     420 nits     Selectable Fonts     1023     1023     1023     22-42     CscAN & Ethernet     2048 / 2048     512 / 512     50,000     32768 (16384 ret.)     Standard     HTTP or EnvisionRV     FTP or EnvisionFX     Yes     3     RS-232 &/or RS485     Yes     Datalog & Backup     Mini B - Programming Only     CscAN, CANopen, DeviceNet, J1939     1640 ft.     Yes     Yes
microSD     Yes     Yes     800 x 480     7" WVGA     420 nits     Selectable Fonts     1023     1023     5 + System Key     Yes     CSCAN & Ethernet     2048 / 2048     512 / 512     50,000     32768 (16384 ret.)     Standard     HTTP or EnvisionRV     FTP or EnvisionFX     Yes     3     RS-232 &/or RS485     Yes     Datalog & Backup     Mini B - Programming Only     CsCAN, CANopen, DeviceNet, J1939     1640 ft.     Yes     Yes
Yes     Yes     800 x 480     7" WVGA     420 nits     Selectable Fonts     1023     1023     5 + System Key     Yes     22-42     CsCAN & Ethernet     2048 / 2048     512 / 512     50,000     32768 (16384 ret.)     Standard     HTTP or EnvisionRV     FTP or EnvisionFX     Yes     3     RS-232 &/or RS485     Yes     Datalog & Backup     Mini B - Programming Only     CsCAN, CANopen, DeviceNet, J1939     1640 ft.     Yes     Yes
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800 x 480     7" WVGA     420 nits     Selectable Fonts     1023     1023     5 + System Key     Yes     22-42     CsCAN & Ethernet     2048 / 2048     512 / 512     50,000     32768 (16384 ret.)     Standard     HTTP or EnvisionRV     FTP or EnvisionFX     Yes     3     RS-232 &/or RS485     Yes     Datalog & Backup     Mini B - Programming Only     CsCAN, CANopen, DeviceNet, J1939     1640 ft.     Yes     Yes
7" WVGA   420 nits   Selectable Fonts   1023   1023   5 + System Key   Yes   22-42   CsCAN & Ethernet   2048 / 2048   512 / 512   50,000   32768 (16384 ret.)   Standard   HTTP or EnvisionRV   FTP or EnvisionFX   Yes   3   RS-232 &/or RS485   Yes   Datalog & Backup   Mini B - Programming Only   CsCAN, CANopen, DeviceNet, J1939   1640 ft.   Yes   Yes
420 nits   Selectable Fonts   1023   1023   5 + System Key   Yes   22-42   CsCAN & Ethernet   2048 / 2048   512 / 512   50,000   32768 (16384 ret.)   Standard   HTTP or EnvisionRV   FTP or EnvisionFX   Yes   3   RS-232 &/or RS485   Yes   Datalog & Backup   Mini B - Programming Only   CsCAN, CANopen, DeviceNet, J1939   1640 ft.   Yes   Yes
Selectable Fonts102310235 + System KeyYes22-42CsCAN & Ethernet2048 / 2048512 / 51250,00032768 (16384 ret.)StandardHTTP or EnvisionRVFTP or EnvisionFXYes3RS-232 &/or RS485YesDatalog & BackupMini B - Programming OnlyCsCAN, CANopen, DeviceNet, J19391640 ft.YesYesYes
1023   1023   5 + System Key   Yes   22-42   CsCAN & Ethernet   2048 / 2048   512 / 512   50,000   32768 (16384 ret.)   Standard   HTTP or EnvisionRV   FTP or EnvisionFX   Yes   3   RS-232 &/or RS485   Yes   Datalog & Backup   Mini B - Programming Only   CsCAN, CANopen, DeviceNet, J1939   1640 ft.   Yes   Yes
1023   5 + System Key   Yes   22-42   CsCAN & Ethernet   2048 / 2048   512 / 512   50,000   32768 (16384 ret.)   Standard   HTTP or EnvisionRV   FTP or EnvisionFX   Yes   3   RS-232 &/or RS485   Yes   Datalog & Backup   Mini B - Programming Only   CsCAN, CANopen, DeviceNet, J1939   1640 ft.   Yes   Yes
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FTP or EnvisionFX Yes 3 RS-232 &/or RS485 Yes Datalog & Backup Mini B - Programming Only CsCAN, CANopen, DeviceNet, J1939 1640 ft. Yes Yes
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Mini B - Programming Only CsCAN, CANopen, DeviceNet, J1939 1640 ft. Yes Yes
CsCAN, CANopen, DeviceNet, J1939 1640 ft. Yes Yes
1640 ft. Yes Yes
Yes Yes
Yes
E ((" / 142.0 mm
5.66" / 143.8 mm
7.34" / 186.08 mm
1.84" / 46.62 mm
COM opt adds 0.9"/22mm depth
-10 to 60°C
5 to 95%
UL Class 1 Div II, CE
UL Type 1, 3R, 4, 4x, 12, 12k, 13



Canvas 7D     2MB     0.02mS/K     microSD     Yes     Yes     800 x 480     7" WVGA     800 nits     Selectable Fonts     1023     1023     1023     5 + System Key     Yes     22 - 42     CsCAN & Ethernet     2048 / 2048     512 / 512     50,000     32768 (16384 retentive)     Standard, 2 Ports     HTTP or EnvisionRV     FTP or EnvisionFX     Yes     3     RS-232 & or RS485     Yes     Datalog & Backup     Mini B - Programming Only     CsCAN, CANopen, DeviceNet, J1939     1640 ft.     Yes
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CsCAN & Ethernet     2048 / 2048     512 / 512     50,000     32768 (16384 retentive)     Standard, 2 Ports     HTTP or EnvisionRV     FTP or EnvisionFX     Yes     3     RS-232 &/or RS485     Yes     Datalog & Backup     Mini B - Programming Only     CsCAN, CANopen, DeviceNet, J1939     1640 ft.
512 / 512 50,000 32768 (16384 retentive) Standard, 2 Ports HTTP or EnvisionRV FTP or EnvisionFX Yes 3 RS-232 &/or RS485 Yes Datalog & Backup Mini B - Programming Only CsCAN, CANopen, DeviceNet, J1939 1640 ft.
50,000 32768 (16384 retentive) Standard, 2 Ports HTTP or EnvisionRV FTP or EnvisionFX Yes 3 RS-232 &/or RS485 Yes Datalog & Backup Mini B - Programming Only CsCAN, CANopen, DeviceNet, J1939 1640 ft.
32768 (16384 retentive) Standard, 2 Ports HTTP or EnvisionRV FTP or EnvisionFX Yes 3 RS-232 &/or RS485 Yes Datalog & Backup Mini B - Programming Only CsCAN, CANopen, DeviceNet, J1939 1640 ft.
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FTP or EnvisionFX Yes 3 RS-232 &/or RS485 Yes Datalog & Backup Mini B - Programming Only CsCAN, CANopen, DeviceNet, J1939 1640 ft.
Yes 3 RS-232 &/or RS485 Yes Datalog & Backup Mini B - Programming Only CsCAN, CANopen, DeviceNet, J1939 1640 ft.
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Mini B - Programming Only CsCAN, CANopen, DeviceNet, J1939 1640 ft.
CsCAN, CANopen, DeviceNet, J1939 1640 ft.
1640 ft.
Yes
Yes
5.66" / 143.8 mm
8.27" / 210.1 mm
1.78" / 43.94 mm
COM opt adds 0.9"/22mm depth
-10 to 60°C (-40°C option available)
5 to 95%
UL Class 1 Div II, CE
UL Type 1, 3R, 4, 4x, 12, 12k, 13



Canvas 10D
2МВ
0.02mS/K
microSD
Yes
Yes
Yes
1024 x 600
10.1" WSVGA
300 nits
Selectable Fonts
1023
1023
5 + System Key
Yes
22 - 42
CsCAN & Ethernet
2048 / 2048
512 / 512
50,000
32768 (16384 retentive)
Standard, 2 Ports
HTTP or EnvisionRV
FTP or EnvisionFX Yes
3
Yes
Yes
Datalog & Backup
Type C - Programming Only
CsCAN, CANopen, DeviceNet, J1939
1640 ft.
Yes
Yes
9.08" / 230.6 mm
11.94" / 303.3 mm
2.43" / 61.7 mm
COM option adds 0.5" / 13 mm depth
-10 to 60°C
5 to 95%
UL Class 1 Div II (pending), CE
UL Type 1, 3R, 4, 4x, 12, 12k, 13, ABS