

Velocio Command HMI Series Datasheet

Go to Velocio.net/hmi to download the Free CommandHMI programming software. It is a simple drag and drop tool that enables you to create powerful operator interfaces.

Display

Parameter	HMI-043U2S	HMI-070U3SE	HMI-102U3SE	HM-156QS
Display size	4.3 in	7.0 in	10.2 in	15.6 in
Resolution	480 x 272	1024 x 600	1024 x 600	1920 x 1080
Touch panel	Resistive	Resistive	Resistive	Resistive
Colors	16.77M	16.7M	16.7M	16.7M
Backlight	LED	LED	LED	LED
Contrast	400:1	400:1	400:1	700:1
Brightness	400 cd/m ²	450 cd/m ²	450 cd/m ²	300 cd/m ²

Performance and Memory

Parameter	HMI-043U2S	HMI-070U3SE	HMI-102U3SE	HM-156QS
Platform	Linux	Linux	Linux	Linux
CPU	Dual-core A7 1GHz	Dual-core A7 1GHz	Dual-core A7 1GHz	Cortex A7 1.2GHz
Memory	128MB Flash + 128MB DDR3	128MB Flash + 128MB DDR3	128MB Flash + 128MB DDR3	4GB eMMC + 256MB DDR3
External storage	USB	USB	USB	USB

Power Supply

Parameter	HMI-043U2S	HMI-070U3SE	HMI-102U3SE	HM-156QS
Voltage	12-24V DC	12-24V DC	24V DC	24V DC
Power	3W	4W	7W	10W

Hardware Interfaces

Parameter	HMI-043U2S	HMI-070U3SE	HMI-102U3SE	HM-156QS
COM1	RS232	RS232	RS232	RS232
COM2	RS422/485	RS422/485	RS485	RS422/485
COM3	—	RS485	RS485	—
Ethernet	No	Yes	Yes	Yes
USB download	Yes	Yes	Yes	Yes
USB host	Yes	Yes	Yes	Yes

Software and Function Modules

Parameter	HMI-043U2S	HMI-070U3SE	HMI-102U3SE	HM-156QS
Recipes/windows	Yes			
Data functions	Yes			
Macro support	C-language			

Supported PLC/device drivers and connection modes

Manufacturer (Brand)	Model	Communication Protocol	COM
Advantech Distributed I/O	ADAM-4017, ADAM-4060	Proprietary protocol of Advantech	Serial port
AIBUS	AI series	AIBUS protocol	Serial port
Allen-Bradley	MicroLogix series	DF1 protocol	Serial port
Altec Electronics	AL series	Proprietary protocol of Altec	Serial port
Delta Corporation	DVP series	Proprietary protocol of Delta	Serial port
Emerson Network Power	EC series	Proprietary protocol of Emerson	Serial port
Fatek Automation Corporation	FB series	Proprietary protocol of Fatek	Serial port
Fuji Electric Corporation	NB series	Proprietary protocol of Fuji	Serial port
GE Corporation	GE SNP-X/CCM	Proprietary protocol of GE	Serial port
Haiwell Technology Corporation	E/S/H series	Proprietary protocol of Corporation	Serial port
Hitachi Industrial	E/EH series	Proprietary protocol of Hitachi	Serial port
HollySys Group	LM series	Proprietary protocol of HollySys	Serial port
IDEC Corporation	FC4A/FC5A series	Proprietary protocol of IDEC	Serial port
Inovance Technology Corporation	H1u/H2u series	Proprietary protocol of Inovance	Serial port
JiaChuang Technology	JiaChuang	Proprietary protocol of JiaChuang	Serial port
KDN Automation Corporation	K3 series	Proprietary protocol of KDN	Serial port
Keyence Corporation	KV-1000/700 KV-L20(R), KV-10/16/24/40 KV-P16	Proprietary protocol of Keyence	Serial port
Koyo Electronics	SN series	Proprietary protocol of KoYo	Serial port
Kstar Technology	Kstar Equipment	Proprietary protocol of Kstar	Serial port
Letrun Technology	LC series	Proprietary protocol of Letrun	Serial port
LG Industrial Systems	Master-K series	Proprietary protocol of LG	Serial port
Matsushita	FP series	Proprietary protocol of Matsushita	Serial port
Mitsubishi	Melsec-FX/FX2N/FX3U/FX3G, Melsec-Q_C24N series	Proprietary protocol of Mitsubishi	Serial port
Modbus	RTU/ASCII Equipment, RTU TCP/IP Equipment	Modbus Protocol	Serial port/Ethernet
Modicon Corporation	NEZA/TWIDO/M218 series	Modbus Protocol	Serial port
Nanda Auto Technology	NA-200/NA-400 series	Proprietary protocol of Nanda Auto	Serial port
Omron	C/CPM series, CS/CJ series	Proprietary protocol of Omron	Serial port
Samkoon	FGs series	User-defined protocol	Serial port
SEARI	VP series	Proprietary protocol of SEARI	Serial port
Shimaden	MR13	Proprietary protocol of Shimaden	Serial port
Siemens	S7-200(PPI), S7-300(MPI), S7-1200	Proprietary protocol of Siemens	Serial port
TaiAn Technology	TP03 series	Proprietary protocol of TaiAn	Serial port
TaiLing Electric	DX series	Proprietary protocol of TaiLing	Serial port
Techwayson Technology	V series	Proprietary protocol of Techwayson	Serial port
Vigor Electric Corporation	V/VH/VB/M series	Proprietary protocol of Vigor	Serial port
Xinje Electronic	XC/XCM series	Proprietary protocol of XinJe	Serial port
Yokogawa Electric Corporation	FA-M3 series	Proprietary protocol of Yokogawa	Serial port
ZhengHang Electronics	A4/A5 series	Proprietary protocol of ZhengHang	Serial port

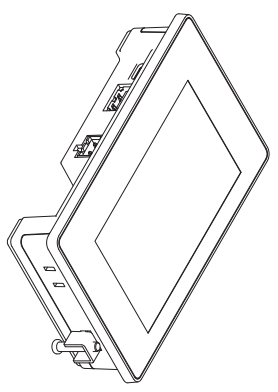
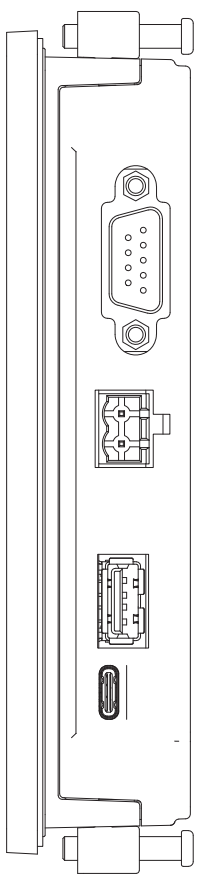
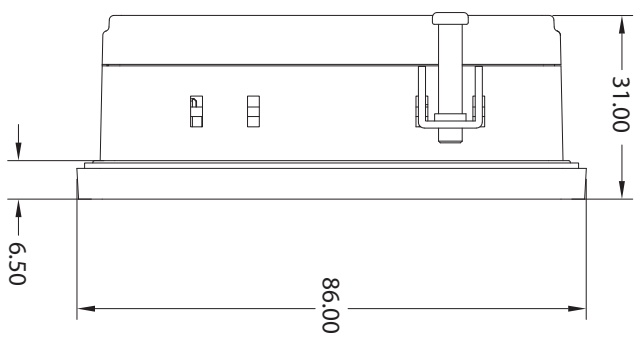
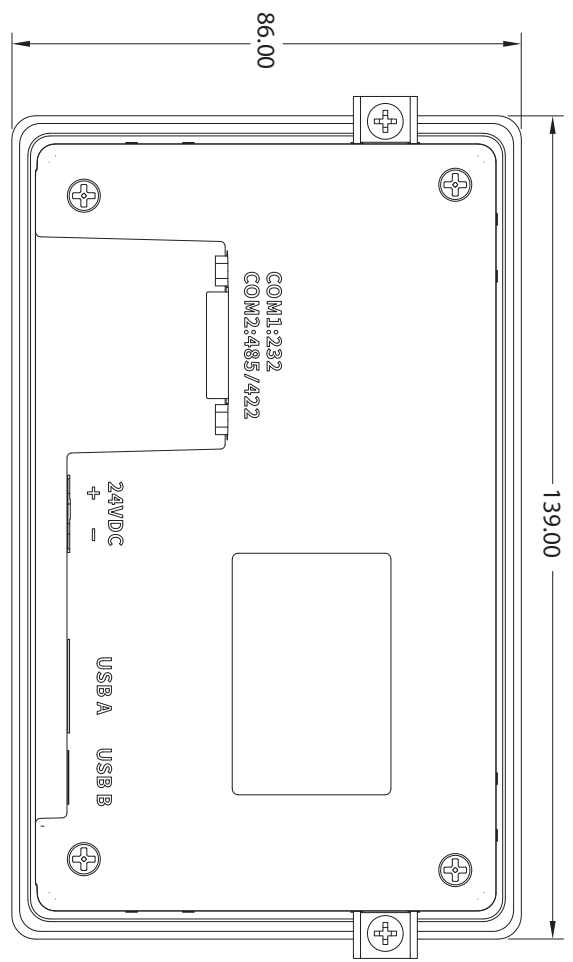
Structure and Environment

Parameter	HMI-043U2S	HMI-070U3SE	HMI-102U3SE	HM-156QS
Dimensions	139x86x31 mm	203x145x35 mm	273x211x39.5 mm	395x257x31 mm
Cutout	132x80 mm	192x138 mm	259x201 mm	384x247 mm
Weight	270g	700g	1050g	2.45kg
Temp	-20 to 55C	-20 to 55C	-20 to 55C	-20 to 55C
Humidity	5% to 95% RH (non-condensing)			
Protection	IP65 (front panel)			

Certifications and Protection

Parameter	HMI-043U2S	HMI-070U3SE	HMI-102U3SE	HM-156QS
ESD	±8kV	±6kV	±6kV	±8kV
Voltage test	1000V AC, 1 minute			
FCC	Meets FCC, Class A			
CE	Complies with EN55032 and EN55035			

REVISIONS			
REV	DESCRIPTION	ZONE	DATE
A	Initial Release	-	



Recommended Mounting Cutout: 132 x 80 mm



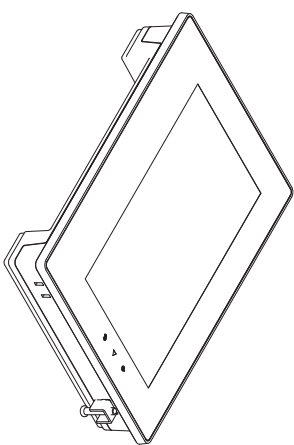
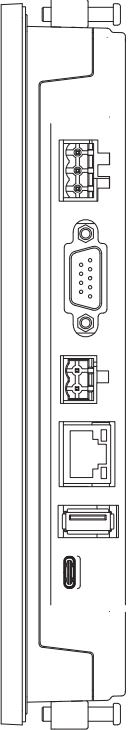
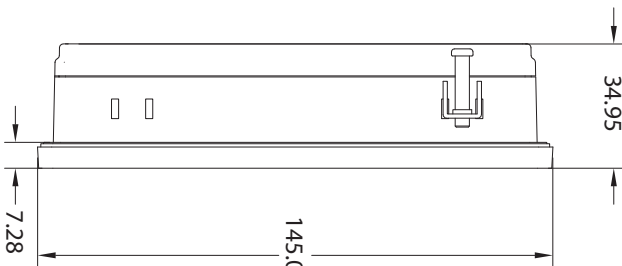
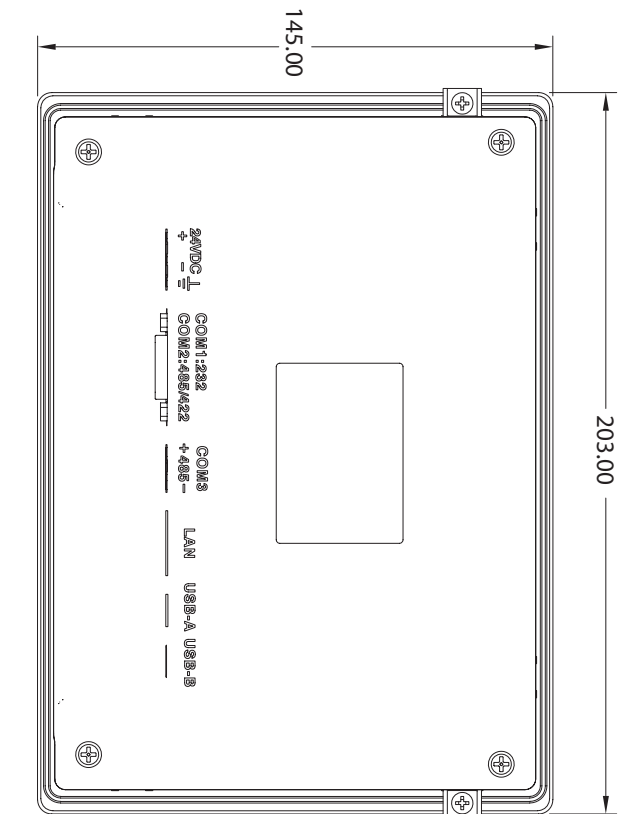
PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VELOCIO.NET. NO PART OR AS WHOLE WITHOUT THE WRITTEN PERMISSION OF VELOCIO.NET IS PROHIBITED.

DIMENSIONS AND TOLERANCES		TOLERANCES		DIMENSIONS AND TOLERANCES	
DIMENSIONS	UNLESS OTHERWISE SPECIFIED	DIMENSIONS	DEBURR AND BREAK	DIMENSIONS	DEBURR AND BREAK
XX ± 0.13		MILLIMETERS	MAX 0.3mm	MILLIMETERS	MAX 0.3mm
XX ± 0.13		ANGLES	MAX 0.25°	ANGLES	MAX 0.25°
XX ± 0.13		RADIUS	MAX 0.25mm	RADIUS	MAX 0.25mm

TITLE		HMI-043U25	
DRAWING NUMBER			
MATERIAL		FINISH	
DESIGNED		APPROVED	
DRAWN		DATE	
Dustin Siek		April 27, 2026	
RELEASED FOR		SIZE	
		A	
		SCALE	
		1:1 (From parent)	
		SHEET	
		1/1	

REVISIONS				
REV	DESCRIPTION	ZONE	DATE	APPROVED
A	Initial Release	-		



Recommended Mounting Cutout: 192 x 138 mm

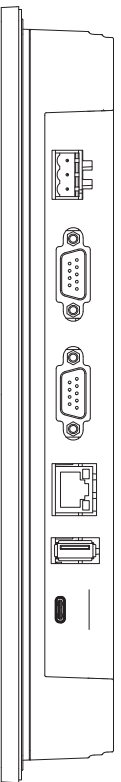
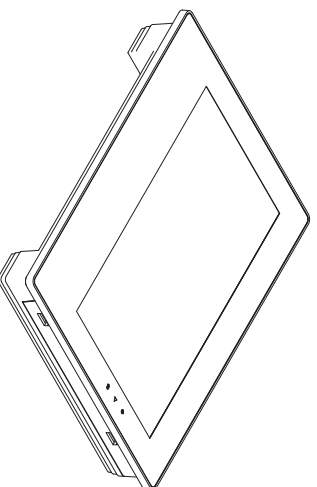
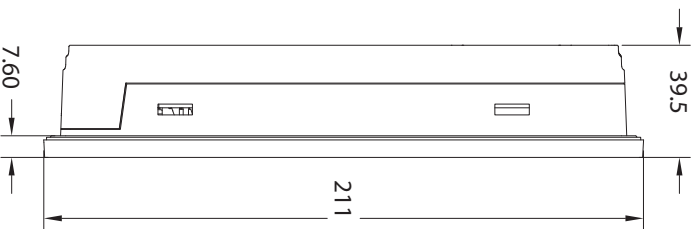
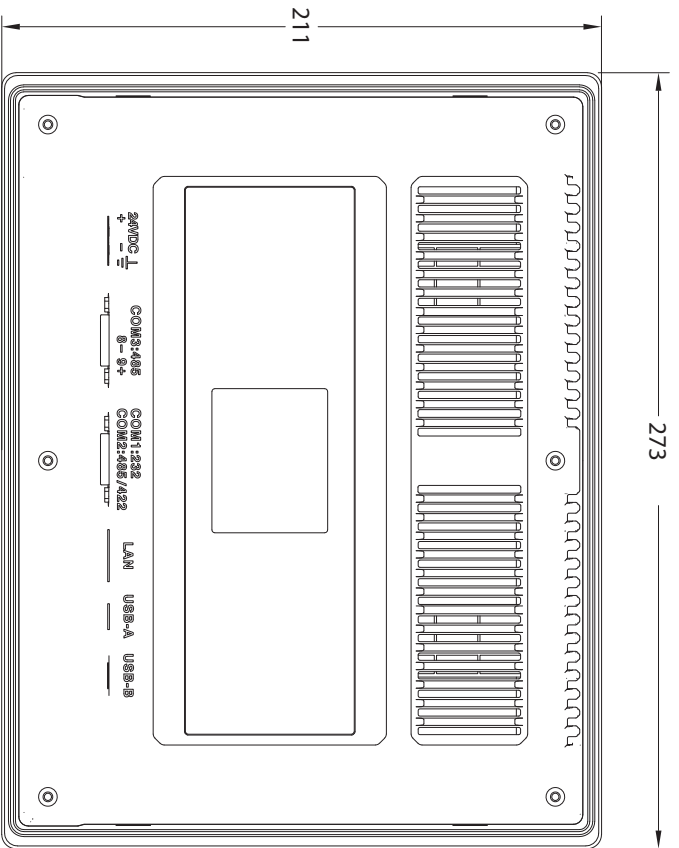


PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF VELOCIO.NET. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF VELOCIO.NET IS PROHIBITED.

GENERAL NOTES			
UNLESS OTHERWISE SPECIFIED			
DIMENSIONS AND TOLERANCES APPLY AFTER FINISH	DIMENSIONS IN MILLIMETERS	DRILLING AND BREAK SHARP EDGES	MAX 0.3mm
DECIMALS	ANGLES	MACHINED SURFACES	THREADS
X ±.3	X ±.1°	XX ±.05°	CLASS 2
XXX ±.013	XXX ±.025°	MAX 125 RMS	

TITLE		HMI-070U3SE	
DRAWING NUMBER			
MATERIAL		FINISH	
DESIGNED		APPROVED	
DRAWN		RELEASED FOR	
Dustin Siek		April 27 2026	
SIZE	SCALE	SHEET	
A	1:2	1/1	

REVISIONS				
REV	DESCRIPTION	ZONE	DATE	APPROVED
A	Initial Release	-		



Recommended Mounting Cutout: 259x201 mm



PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VELOCIO. NO PART OR AS WHOLE WITHOUT THE WRITTEN PERMISSION OF VELOCIO IS PROHIBITED.

GENERAL NOTES

UNLESS OTHERWISE SPECIFIED

DIMENSIONS AND TOLERANCES AFTER FINISH

DECIMALS

X ±.3

XX ±.13

XXX ±.013

ANGLES

X ±.1°

XX ±.05°

MACHINED SURFACES

MAX 125 RMS

THREADS

CLASS 2

DESIGNED

DRAWN

APPROVED

RELEASED FOR

DATE

SIZE

MATERIAL

FINISH

APPROVED

RELEASED FOR

DATE

SIZE

TITLE HMI-102U3SE

DRAWING NUMBER

MATERIAL

FINISH

APPROVED

RELEASED FOR

DATE

SIZE

REV A

APPROVED

RELEASED FOR

DATE

SIZE

SCALE

SHEET

1/1

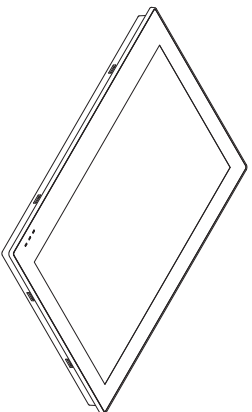
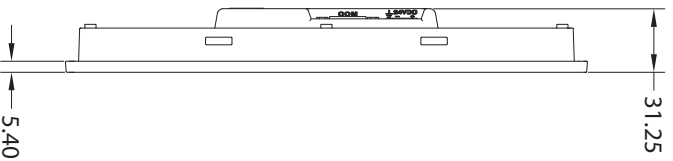
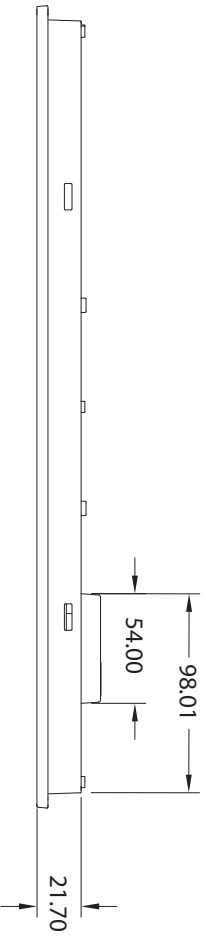
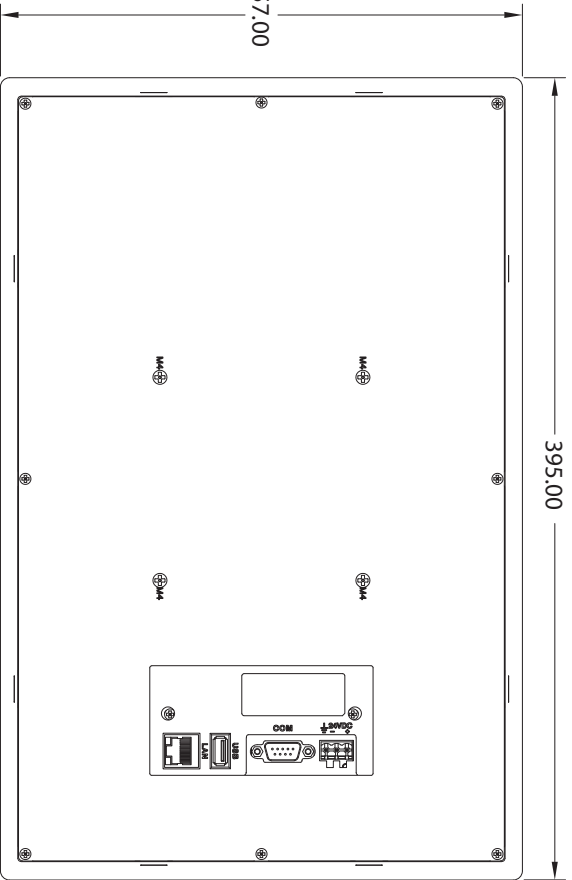
4

3

2

1

REVISIONS				
REV	DESCRIPTION	ZONE	DATE	APPROVED
A	Initial Release	-		



Recommended Mounting Cutout: 384x247 mm



PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF VELOCIO.NET. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF VELOCIO.NET IS PROHIBITED.

GENERAL NOTES

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS AND TOLERANCES APPLY AFTER FINISH

DIMENSIONS ARE IN MILLIMETERS

DEBURN AND BREAK SHARP EDGES MAX 0.3mm

ANGLES X ± 1° X.X ± 0.5° XXX ± 0.2°

MACHINED SURFACES MAX 125 RMS

THREADS CLASS 2

TITLE HM-156QS

DRAWING NUMBER

MATERIAL

FINISH

DESIGNED

APPROVED

DRAWN Dustin Sierk April 27, 2026

RELEASED FOR

SIZE A

SCALE 1:3.5

SHEET 1/1

REV A