

Message Pro X Product Manual

Version 1.0 April 2021

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Revision History

Version	Date	Modification
1.0.0	2021/5/3	Initial release.
1.0.1	2021/5/6	Modify disclaimer.
		Adjust pages alignment.
		Revised program configuration explanation.



1. Introduction

1.1 Disclaimer

Message Pro X is built for editing print messages for ANSER X1 printer in a more efficient way. Its main function include create and edit print messages and data exchange between X1 printer(s) and a personal computer or a workstation.

We highly discourage users to perform other usage that is not included in this manual. For more system integration requirement or customization needs, please contact ANSER Coding Inc.

1.2 Minimum hardware requirement

- CPU: Intel[®] Atom[™] X5-Z8350, 1.44 GHz
- RAM: 2GB SDRAM
- LCD: 1280x800
- Disk Storage 32GB
- I/O USB port x 2
- 4GB up USB disk x 1

1.3 Minimum system requirement

- Operating System: Windows 10 Home
- MS Office Excel



2. Installation Steps

STEP1: Double click on "MessagePRO X *.*.exe" installer.

Name	Date modified	Туре	Size
🚱 MessagePRO X 3.0.1.01.0004.exe	2021/1/29 10:35	Application	36,521 KB

Figure 2-1

STEP2: Select installer language and click "OK".

Installe	r Language	e	×
	Please selec	t the language	e of the installer
	English		~
		ОК	Cancel
		Figure 2-	2

STEP3: Click "Next >".

(It is recommended that to close all other application before installation.)



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STEP4: If in a reinstallation process, a warning message will shows. Click "OK".

1	MessagePRO X 3.0.1.01.0004 Setup			\times	-
	Choose Install Location Choose the folder in which to install MessagePRO X 3.0.1.01.0004.				
•••	MessagePRO X 3.0.1.01.0004 Setup Please ensure to install it in the same location the saved parameters.	n if it red	quires to	o use	×
			(OK	
	Nullsoft Install System v2.46.5-ANSI	Install	Car	ncel	No. No.

Figure 2-4

STEP5: Select destination location and click "Install".

(Default location: "(Default User Path)\ANSER PRODUCT\MessagePRO X")

MessagePRO X 3.0.1.01.0004 Setup	_		\times
Choose Install Location Choose the folder in which to install MessagePRO X 3.0.1.01.0004.			
Setup will install MessagePRO X 3.0.1.01.0004 in the following folder. folder, click Browse and select another folder. Click Install to start the	To ins install	tall in a diffe ation.	erent
Destination Folder D:\USERS\yt.lin\ANSER PRODUCT\MessagePRO X		Browse	
Space required: 77.5MB Space available: 188.4GB			
Nullsoft Install System v2,46,5-ANSI	stall	Ca	ncel

Figure 2-5



STEP5: Wait for the installation to complete then click "Close".

MessagePRO X 3.0.1.01.0004 Installing Please wait while MessagePRO X 3.0.1.01.	Setup 0004 is being installed.	_		5
Extract: Qt5Core.dll 100%				
Extract: HTHW.dll 100% Extract: HTUIReq.dll 100% Extract: zint.lib 100% Extract: zint.dll 100% Extract: LibDrawTTF.dll 100% Extract: LibDrawTTF.h 100% Extract: libgcc_s_dw2-1.dll 100% Extract: libstdc++-6.dll 100% Extract: libwinpthread-1.dll 100% Extract: Qt5Core.dll 100%				^
Nullsoft Install System v2.46.5-ANSI ————	< Back	Close	Ca	incel



STEP6: An application shortcut will be created on the Desktop.





3. Operation

3.1 Prerequisite

ANSER does not provide an USB in X1 controller set. However, any USB drive with the FAT32 format can be used to backup, synchronize or transfer data between X1 and the Message Pro X program.

3.1.1 Format a USB with FAT32 format

Right click on the USB drive and select "Format..."

unu				
>	This PC	Format		
~	🕳 USB Drive	Eject		
	Svciam V			
		Figure 3-1		
	Format US	B Drive (G:)	×	
	Capacity:			
	7.20 GB		~	
	File system			
	FAT32 (Defaul	t)	~	
	Allocation unit s	size		
	4096 bytes		\sim	
	Restore devie	ce defaults		
	Volume label			
	Format option	ıs		
	Quick Form	nat		
		Start	Close	
		•		

Figure 3-2

3.1.2 Confirm if the USB disk is properly formatted

➡ USB Drive (G:) Properties >							
General Tools Har	dware Sharing ReadyBo	ost Customize					
<u>ب</u>							
Type: USB D	Drive						
File system: FAT3	2						
Used space:	16,384 bytes	16.0 KB					
Free space:	7,723,859,968 bytes	7.19 GB					
Capacity:	7,723,876,352 bytes	7.19 GB					
Ο							
	Drive G:						
	OK Cancel	Apply					

Figure 3-3



3.2 Import / Export X1 files from/to the USB disk

3.2.1 Export

STEP1: Insert the formatted USB and navigate the X1 printer to the "About Printer" page.



Figure 3-4

STEP2: Select "Export".



Figure 3-5



STEP3: Specified the File Name of the exporting file, then click "USB" as the target media.

File Name Backup_20210429
(L)
USB
Cancel

Figure 3-6

STEP4: Navigate to the root directory and click "Done" to confirm the exporting.







STEP5: Click "OK" and safely remove the USB drive from the X1 controller.



Figure 3-7

3.2.2 Import

STEP1: Insert the USB and navigate the X1 printer to the "File Management" page.

∃ ♠	2021/05/03 16:53:45							-	÷	ŀ
System Settings	Templa Managem	nte nent	File Management	Ма	User nagement	Report	About Printer			
Category			File Selected(0)	≡↓	Preview	w				
Message	>		Anser X1.xml	2						
Image	v		Date + Text.xml	0						
Shift	v	\Box	GS1 128.xml	0						
Variable	v	\Box	GS1 datamatri	·· <u>Ø</u>						
□Database	e v		GS1 datamatri	·· <u>⁄</u>						4
Font	v	\Box	IPPC.xml	0						
Backup	v	\Box	MSG00001.xml	Ø						U
			Text.xml	0	View all	selected	企	Import		

Figure 3-8



STEP2: Click the "Import" button, and select the USB media.



Figure 3-9

STEP3: Double click on the printer data folder then press "Done".

Im	aport from USB
÷	
Backup_20210429 System Volume Information	x1_printer
Cancel	Done

Figure 3-10



			mport from US	в		-te
÷						
	backup	barcode	counter	date	db	
	excel	font	log	logo	msg	
		Cancel		Done		

Figure 3-11

STEP4: Check the files that are importing. (Unchecked all and reselect is preferred.)

Import from	USB
- Backup_20210429	
🗌 🖿 - backup	
20210422_121951.tar.gz	
🗌 🖿 - barcode	
1234.bmp	
🗌 🛄 - db	
default-EN.ini	
default-SC.ini	
default-TC.ini	
GS1 datamatrix.ini	
Default.ini	
🔄 💆 - font	
Arial_300DPI.TPF	
Cancel	Done

Figure 3-12



STEP5: An "Import Success" message will show when the import it completed.



Figure 3-13



4. Function introduction

4.1 Run the program

Double click "MessagePro X" icon to execute.



4.2 Select the printer file folder

Insert the USB drive and select the exported folder.

		* V /~ Sedici	USD DIIVE (C
Ouick access	Name	Date modified	Туре
Creative Cloud Files	Backup_20210429	2021/4/29 3:47 PM	File folder
 OneDrive - Personal 		2020/11/20 8.38 AM	File folder
💻 This PC	Nex-X1 folder		
🕳 USB Drive (G:)	Please select an Nex-X1 folder :		
network	G:\Backup_20210429\	•	
_			
	🗸 0	K 🗙 Cancel	
_			

Figure 4-2



If the MessagePro X program were executed when there is no USB drive inserted. A below status will be shown.





lcons	Description
	No USB disk detected. The USB disk is not formatted in FAT32 format or no X1 export folder found.
	USB disk checked.



4.3 Main menu introduction

4.3.1 Version number



4.3.2 Main functions

lcons	Description
Message Browser	The default page when the program is ready. Including message preview and the message list.
Function	Including Message Pro X program configuration and template editing.
PC-Tools	Used to import the image files, csv files or TTF files into the X1 printer.



4.3.3 Message Browser

🔛 MessagePF	RO [Nex-X1]		- 🗆 X	
		Message Browser	MessagePro X1 3.0.1.01.0006	Tools
Message Browser	New	Editing Tab Find	Delete	
	Message Preview MSG. #: 000		🔍 Auto 🔽 🗬	Zoom In/Out
Function	GT	FIN: 00614141999996		
	EX	(P: 220504		
	LC	DT: 0001		
PC-Tools	SN	N: 321CBA		Message List
	Anser X1.xml	Date + lext.xml		
	GS1 128.xml	GS1 datamatrix 2.	xmi	
	GS1 datamatrix.xml			
	MSG00001.xml			
		0	(G:)	
		Figure 4	-3	

4.3.3.1 Message browser tools

Icons	Description
	Add a new message.
	Edit the selected message.
	Delete the selected message.
\bigcirc	Search for specific message by message name.
	Set the message delay.
ð	Zoom out the preview. (75%, 50%, 25%)
Ą	Zoom in the preview. (125%, 150%, 175%, 200%)

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4.3.3.2 Message browser right click menu

Manser X1	.xml	🖂 Date + Text.xml
GS1 12 <mark>2</mark>	vml	SS1 datamatrix 2.xml
GS1 da	Copy lo Rename	IPPC.xml
	Ink Report	

Figure 4-4

Icons	Description
Сору То	Duplicate the message.
Rename	Rename the selected message.
Ink Report	Show the consumed dots of the selected message and the estimated printables.



4.4 Message Editor



Click icon or double-click within the blank area of Message List. A Message Editor window as below will appear.

🖯 Messa	ge Editor													_	
						Me	ssage	e Edito	or						
Add	Delete	Сору	Paste	100%	۰ چ	Editing	1. 2. 3. 4. Line Mod	⊢⊳ e Tab/DIR	l					Save	Cancel
Mess	sage #: 002			MSG00002		Line Mod	e: Line Free	•	l (₽∙₽) – 🗖 🗸	Group	1 🔹	Height: 12	2.7 mm 💌
DPI: 300x300	5	10 	15 	20	25 	30 .	35 44) 45	50 	55	60 	65 	70 .	75 	80 mm ⁶
							Eig								

Figure 4-5



4.4.1 Message Settings/Object Settings



Figure 4-6

lcons	Description			
	Bring the selected object to Top Send the selected object to Bottom			
Ç •	Mirrored Upside Down Rotate Reverse Color			
	Color of the group Black Red Blue Green Yellow			
Group 1 💌	Use to group the objects so can later be applied to different color.			
25.4 mm 💌	The message height options, 12.7mm, 24.75mm, 25.4mm, and 48.7mm			



4.4.2 Message Editor Tools

Icons	Description
	Add a new object.
Delete	Delete the selected object.
Сору	Copy the selected object.
Paste	Paste the selected object.
100% - Q Q	Zoom out the preview. (75%, 50%, 25%) Zoom in the preview. (125%, 150%, 175%, 200%)
Editing	Edit the selected object.
1. 2. 3. 4. Line Mode	Setup the alignment lines within the message. Only available when there is no object added.
├──Þ Tab/DIR	The message delay setting and the message direction setting. These two settings have higher priority than print station settings.
Save	Save the message editing.
Cancel	Discard the editing and exit.



X1 can hold up to 3000 messages per controller. USB disk can be share across different X1 controllers. When editing on Message Pro X, select the folder from one of the X1 controller.



4.4.3 Objects

,	TEX Text	2 3 4 5 0 7 6 10 11 12 13 Date/Time	Counter
9	Logo	Barcode	Shape
É	ABCD EFGH Variables	Shift	



4.4.3.1 Object: Text

Editing the Text object attribute as following:

- Message Content: Input the letters and numbers. Full Unicode encoding supported.
- Font: Default fonts are loaded in the "Fonts" folder under install directory. Text object attribute also include font size, density, stretching, spacing, and font style.
- Position: Display X/Y-axis, width and height of the object.

4.4.3.2 Object: Date/Time

Editing the Date/Time object attribute as following:

- Content: The date/time preview
- Parameters: Setup the date as expiration date or freeze lock the date to a specific weekday or date.

Date/Time	
Date/Time Format: YYYY/MM/DD	•
Days: 0 Type: Day •	
Format Preference: OFF OFF OFF	y
2021/05/04	
Week Day Freeze OFF	
Date Freeze OFF	
Rollover Time 00:00	
Format VK	Cancel

Figure 4-8

Options	Description
Туре	Day: Can specified the number of days as the expiry.
	Month: 2 numerical digits available.
	Year: 2 numerical digits available. (max. until 2088)
Format Preference	(TBD)

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• Format (Templates):

Available templates or customized Date/Time templates can be edit here. Maximum Date/Time object length is 30 characters.

	Date/Time	
NO.	Date/Time Format	^
💾 01	YYYY/MM/DD	
L 02	YYMMDD	
03	YYMMMDD	
04	YY/MMM/DD	
05	YY-MM-DD	
06	YY-MMM-DD	
 07	MM/DD/YYYY	
.	MMM/DD/YYYY	
 09	MM/DD/YY	
10	MMM/DD/YY	
11 💾		
112		×
<	2	
	Editing Delete	
	Cancel	

Figure 4-9

Date/Time Format									
year y y y y 2021	мм 05	M M M MAY	DAY D D 04	hour hh	mm 33	second ss	JUL_DATE	week www 18	AM/PM AM/PM
Date/Time For YYYY/MM/D Format Previe 2021/05/04	mat)D w						Length:1	0/30	
					~	ОК	X Canc	el	

Figure 4-10

lcons	Description
	Switch between single character selection and unit group selection.



4.4.3.3 Object: Counter

	Counter	
Teamplate: default-01	•	
Item	Lot	Box
Max: 99999999	Max: 99999999	Max: 999999999
Min: 1	Min: 1	Min: 1
Step: 1	Step: 1	Step: 1
Current: 1	Current: 1	Current: 1
	V OK X Cance	ıl
	Figure 4.11	
	rigure 4-11	

The counter object designed with types, Item, Lot, and Box. The Box and Lot has the relationship of carry. Concept can be easily pictured as in below:



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The Item counter is independent from Box & Lot. The relationship explanation can be illustrate in below.



Figure 4-13

4.4.3.4 Object: Image

Use Windows Paint tool to create X1 readable bmp image files. The maximum number of image file can be stored within a backup file is 60. The maximum size for each of the message is 1200 pixels x 640 pixels



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When the edit is completed, file should be saved as monochrome bmp.

File name:	Untitled.bmp	~
Save as type:	24-bit Bitmap (*.bmp;*.dib)	~
 Hide Folders 	Monochrome Bitmap (*.bmp;*.dib) 16 Color Bitmap (*.bmp;*.dib) 256 Color Bitmap (*.bmp;*.dib) 24-bit Bitmap (*.bmp;*.dib)	
	IPEG (* ingr* ingr* ingr* ifif)	
	Figure 4-15	

4.4.3.5 Object: Barcode



Figure 4-16



4.4.3.6 Object: Shape

The shape object has three types: Rectangle, Circle, and Line.



Figure 4-17

Each one of the shape type has different parameters.

Object Type: Shape
Content Position
Type: Rectangle -
Width: 98 Height: 98
Outline: Width: - 1 + Fill
Dottie Line: InkSaving: 100%
Figure 4-18

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4.4.3.7 Object: Variables

There are up to 20 variable templates can be created for variables. The source internal takes variables from one of the variable templates.

The source external will make the variable take reference from external device input such as a barcode scanner or a checkweigher.

Object Type: Variables					X
Content Font Position					
Field Name: Variab	les 1 👻 Sourc	e: Internel 🔻	Template:	default-EN.ini	-
Message: String	1			default-SC.ini default-TC.ini GS1 datamatrix Default.ini	c.ini



4.4.3.8 Object: Shift

The Shift object is a type of dynamic data that will changed according to system time. There are maximum 24 number of shifts available in a shift table. Each shift name can input 20 characters. The maximum number of shift tables within each X1 backup file is 20.

		Shift		
Shift Name			Start Time	^
shift01			00:00	
shift02			02:00	
shift03			04:00	
shift04			06:00	
shift05			08:00	
shift06			10:00	~
	🍜 Import	🗸 ок	X Cancel	

Figure 4-20



The structure of a shift table (.ini format) should constructed as in below.

📕 Default.ini - Notepad					
File	Edit	Format	View	Help	
[Shif SHFor	t] matNa	mel=shif	t01		
SHFor	SHFormatName2=shift02				
SHFor ShFor	matNa motNo	.me3=shif me4-shif	t03 +04		
SHFor	matTi	me1=0000	104		
SHFor	matTi	me2=0600)		
SHFor ShFor	matli motli	me3=1200 mo4=1800			
Figure 4-21					

4.5 Function

4.5.1 Configuration

4.5.1.1 Measurement

Can be select between Metric units (mm) and British units (inch).

4.5.1.2 X1 folder

Select the targeting valid X1 file directory.

4.5.2 Object Templates

Tabs	Description		
Text Template	Allows the user to create text objects that contained pre-fixed content.		
Date/Time Format Template	Allows the user to create custom template formats for date and time objects.		
Counter Template	Allows the user to create templates for counter objects.		

Variable Template	Allows the users to create a table of variable objects containing pre-defined content. Can be used to store data sent by external devices.		
Shift Template	Allows the user to create a table of work shifts for different operators and hour periods.		
Format Preference Template	Customize the name of the months used in production and expiry date objects.		



4.6 Files Management (PC-Tools)





4.6.1 Image

Images can be imported as monochrome .bmp format. The printing heights in corresponding to pixels are as the following.

Message Height	Image Vertical Size	Print Station Type
12.7 mm	150 pixels	Half inch single
24.75 mm	292 pixels	One inch single
25.4 mm	300 pixels	Half inch stitch
48.7 mm	575 pixels	One inch stitch

Logo				
Imp	ort Delete	Rename		
No.	Name	Size	Preview	<u> </u>
			-	
			-	
			-	
			1	O Close

Figure 4-23

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Open			\times
Look in:	- Downloads	← 🗈 📸 📼 マ	
*	Name Last month (1)	Date modified	Т) ^
Quick access	square 150.bmp	2021/4/15 1:44	BI
Desktop	Lukang.bmp	2021/1/11 11:48	BI
Libraries	e mobile01.bmp u-mask 2 inch.bmp	2021/1/11 11:48 2021/1/11 11:48	BI BI
This PC	U-mask.bmp	2021/1/11 11:48	BI
Network	msg	2021/2/20 4:54	Fi
	< Cothic	2021/2/17 5:20	>
	File name:	• Or	en
	Files of type: BMP file(*.bmp)	▼ Ca	ncel
	Figure 4-24		

4.6.2 Excel/CSV

The X1 printer can take external data source as variables. The supported data formats are excel files in xlsx or csv format, or txt files. The limitation of the data being used is 70,000 rows with all 20 variables being used, which is 20 x 70,000 = 1,400,000 cells of data.



Figure 4-25

The data content for txt file format should looks like in below. Use comma as separator of different variables, and use lines for each data entry.



Figure 4-26

The data content for excel or csv format should looks like in below. Each column represent one variable, and each row represent one data entry.



H19	9 🔹 : 🗙	$\checkmark f_x$			
	А	В	С	D	E
1	AABBCCD1	1CCDDEE2			
2	AABBCCD2	1CCDDEE3			
3	AABBCCD3	1CCDDEE4			
4	AABBCCD4	1CCDDEE5			
5	AABBCCD5	1CCDDEE6			
6	AABBCCD6	1CCDDEE7			
	1				

Figure 4-27

4.6.3 True Type Font

The maximum number of TTF can be imported is 20. Please be aware that fonts are intellectual properties and Anser Coding Inc. does not encourage using unlicensed fonts.



A restart of the Message Pro X program is required after new fonts are Imported.

