

HY-Hex Loader User Manual



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1 HY-Hex Loader Overview

1.1 Introduction

The programming software, HY-Hex Loader, aims to program the .Hex file that generated by all present version of HYCON-IDE by means of hardware programmers (Users are required to accurately select IC model number and programmer ID, detailed description is given in *Chapter 2*).

1.2 HY-Hex Installation and System Requirement

- 1.2.1 System Requirement of HY-Hex Loader Operation:
 - PC Hardware Request
 Compatible PC with PENTIUM® CPU
 128 MB Memory (256MB is recommended)
 10 GB Hard Disk Space
 - OS

Windows XP/Windows Vista/Windows 7/Windows 8 Supporting 32/64 bit system.

- Applicable Interface
 USB Port,USB HID Port
- Supporting Software Version HY11P Hex Loader V2.1 above
- Supporting Products

 -HY11P12, HY11P13, HY11P14
 -HY11P22, HY11P23, HY11P24
 -HY11P32, HY11P33, HY11P35, HY11P36
 -HY11P41, HY11P42
 -HY11P52,HY11P52B,HY11P54,HY11P54B,HY11P58

-HY12P63,HY12P65,HY12P66

Supporting Hardware Model No.

- WK01/WK02/WK02B programmer

- WK05/WK06 /WK07Bprogrammer

Software Version consistency.

Hex files that compiled by all present version of HYCON-IDE can be downloaded for programming via HY-Hex Loader software.

Functions

-Supporting download the Hex files to Flash Memory of programmers

-Supporting read out function of the Hex files that downloaded to Flash Memory of programmers

Note: For some Windows OS, it may require to have administrator identity to install the Hex



Loader to the computer.

Insert the HYCON-IDE CD into the CD ROM drive and find the file in the CD ROM or file to execute Setup.exe.

Following the instruction window dialogs step by step to continue setup procedures. As shown in Figure 1-1.

The first-time installation must initiate USB driver program, setup procedures are as Figure 1-2 shown.

HY-Hex Loader User Manual



d HV11P HexLoader V1.1 - Inst	allShield Wizard 🗙	🖶 HY11P HexLoader V1.1 - InstallShield Wizard 🔀 🔀
	Welcome to the InstallShield Wizard for HY11P HexLoader V1.1	Destination Folder Click Next to install to this folder, or click Change to install to a different folder.
	The InstallShield(R) Wizard will install HY11P HexLoader V1.1 on your computer. To continue, click Next.	Install HY11P HexLoader V1.1 to: C:(Program Files(Hy1DE)HexLoader\
	WARNING: This program is protected by copyright law and international treaties.	InstaliBhield Cancel
🙀 HV11P HexLoader V1.1 - Inst	ulShield Wizerd	🕼 HY11P HexLoader V1.1 - InstallShield Wizard
License Agreement Please read the following lice	4	Custom Setup Select the program features you want installed.
HexLoader程式最終用戶使用f	收 款	Click on an icon in the list below to change how a feature is installed.
纮康科技殷份有限公司(以下↑ (以下簡稱本使用條款)於HYC 供「HexLoader」 (以下簡稱 壹丶軟體內容	商稱「本公司」)係依據HexLoader程式最終用戶使用條款 DN編站(http://www.hycontek.com/,以下簡稱「本站」)提	- Feature Description
片。		
• I accept the terms in the lice	nse agreement	Install to:
C I do not accept the terms in		<u>Change</u>
InstallShield		Instellshield
	< <u>B</u> ack <u>N</u> ext > Cancel	Help Space < Back Next > Cancel
🙀 HY11P HexLoader V1.1 - Inst	LIShield Wizard	🛃 HV11P HexLoader V1.1 - InstallShield Wizard
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Readme Information Please read the following rec Version Revision Record *. Support model: -HY11P12, HY11P13, H -HY11P22, HY11P23, HY11P23, H -HY11P32, HY11P33, H -HY11P32, HY11P42 *. Hardware support mode -HY10000-WK05 Writer -HY10000-WK05 Writer *. Program compatibility: Install this application for: Install this application for:	Image: state of the information carefully. Image: state of the information carefully	Installing HY 11P HexLoader V1.1 The program features you selected are being installed. Image: Please wait while the InstallShield Wizard installs HY11P HexLoader V1.1. This may take several minutes. Status: ImstallShield Imstalled ImstallShield Imstalled ImstallShield ImstallShield ImstallShield ImstallShield ImstallShield Imstalled
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Figure 1-1

HY-Hex Loader User Manual





Figure 1-2

Uninstall

Please remove the file of "HY11P-Hex Loader V1.1" in "Add/Remove Program" under Control Panel.

Interface

WHYCON Burner V1.10 _ 🗆 🗙 File Show Windows Revision History Dig 🗋 101 011 ۵<u>س</u> D: \$ Hex Code Program Verify Read Blank Check Auto The Address of Hex file **Connect Status** Checksum Downloaded in. Body on board D:\HexLoader\7.hex Checksum = 0xE77E

When the software is opened, the window in below will pop up, as Figure 1-3 shown.

Figure1-1

Click File and the window will show as Figure 1-4.

WHYCON Burner V1.10		_ 🗆 🗵
File ShowWindows Revision History		
DownLoad To Flash Memory	Dig Dig Dig 👔	
Read From Flash Memory		
Exit(Q) Ctrl+Q	Down Load Flash 載入Hex	
	Read Flash 讀取	
	Exit(Q) 離開	
D:\HexLoader\7.hex	Body on board Cl	hecksum = 0xE77E

Figure 1-2

Down Load To Flash Memory \rightarrow Download to Flash memory of programmer Read From Flash Memory \rightarrow Read Flash memory from programmer

When Show Windows button is clicked, the window will show as Figure 1-5.



Message		
TP Chip is 11P14 TP Chip Empty		
ead Checksum = 0×FFFF		
Edat		×□
WK05 Older version of writer mu	et choose	
HAO Calibration		ACM Voltage
Permissible Error	Chip	C ACM = 1.0V
Input HA0 Hz ± X		□ Stack over reset
(RANGE 1700000 ~ 2100000 Hz)	IDE Version	
LPO Calibration		Program Protect
Enable S/W Calibration	CheckSum	
Input LPO		
(RANGE 22000 ~ 35000 Hz)		
Defense and the second		
Before version 2.5, pre-recording chip sel	ect	

Message \rightarrow message field

Edit \rightarrow A display window that is defined confirmation item, serve as display function only . no need to tick on this window

Operation Procedures

Step 01: Choose "Down Load To Flash Memory" from File, as shown in Figure 1-6.

HYCON Burner V1.10		_ 🗆 ×		
File ShowWindows Revision History				
DownLoad To Flash Memory				
Read From Flash Memory	Step 1: Select File from choose			
Exit(Q) Ctrl+Q				
	Step 1: Select File from choose "Download To Flash Memory"			

Figure1-4

Step 02 : Select programmer version

Step 03 : Select IC model.Note:this option has no actual meaning at present,selecting IC part no. doesn't influence programming result.

Step 04 : Select IC program limit times; to enable this function, tick "Enable Program Times" and input the limit number. Do not tick if this function is unnecessary.

Step 05 : Click OK when setups are finished



HYCON Burner VI 10						-OX
File Show Windows Revision History		B∕ D	\$			
Please confirm that the burner version and chip.		_				
Please confirm that the burner ve	rsion and cl	up.				
Burner version WK05	Step 2	Select	the vers	ion of Progr	rammer.	
Chip type 11P14 (8K) -	Step 3	: Selec	the moc	lel of chip.		
Burning limit need to manually e Enable Program Times Input Program T	nter S	tep 4: \$	Select the	e IC progran	n limit times	
ok	S	tep 5: (Click OK			
D:\HexLoader\7.hex				Body on bo	ard Checksum	OxE77E

Step 06 : Select Hex files and download to Flash Memory of programmer, as Figure 1-8 indicated

Open					? ×
查詢(1):	🗀 HexLoader		•	+ 🗈 💣 🎟	•
我最近的文件 び 点面 教的文件 美 教的文件 一 教的文件 一 和 一 一 一 一 一 一 一 一 一 一 一 一 一	HexLoader_v2 7.hex 8.hex 23.hex 24.hex 31_E.hex 32_E.hex 39_E.hex 40_E.hex	.8			
	, 檔名(N):	40_E.hex		-	開啓(0)
	檔案類型(I):	*.Hex		-	取消

Figure 1-6

Step 07 : Select whether to input Password, as Figure 1-9



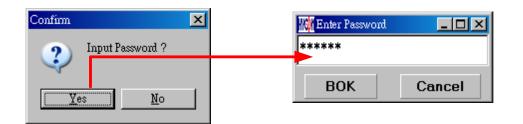


Figure 1-7

Step 08 : Select whether to specify programmer ID, as Figure 1- 10 shown

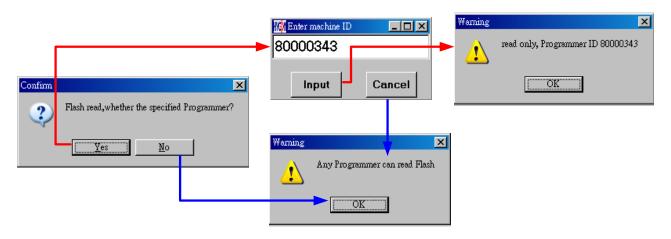


Figure 1-8

Step 09 : Message field will show the information once setups were all done, as Figure 1-11



Figure 1-9

Step 10 : Select Edit to display the information after Hex file was loaded. This window is for information display purpose, no need to change the setups.



W Edit		
HAD Calibration	oose System Parameter	ACM Voltage
Permissible Error Input HAD 2000000 Hz ± 2 %	Chip HY11P14	C ACM = 1.0V
(RANGE 1700000 ~ 2100000 Hz)	IDE Version 3.00	 Stack over reset Program Protect
Enable S/W Calibration Input LP0 28000 (RANGE 22000 ~ 35000 Hz)	CheckSum D2A0	
Before version 2.5, pre-recording chip select		

Figure 1-10

(1) When used USB interface, program code would be loaded to Flash Memory of programmer once the main program was compiled for mass production programming purpose.

(2) Users can choose whether to input password before loading the code to Flash Memory of programmer, as shown in Figure1- 9. This function enables users to see the code that has been loaded from PC to Flash Memory of programmer. Please note that Password can only have 6 digits (ASCII Code). In order to protect the code developed by user, the programmer is defaulted to have a set of Password. If the Password was canceled during operation processes, then it is prohibited to read out the code from the programmer in the future.

Notice: Once the Password was set, it is the same password of programmer operation. This password would be required every time the CODE was to be read out. Please memorize the password carefully so that to prevent that the password can not be read out. The programmer would ask to re-input the password every time a new code is loaded.

(3) After the Password was set, it will ask whether to specify programmer; once a programmers was specified; only it can read the Code of Flash Memory. If not specified, then any programmer can read the code, as shown in Figure 1- 10.

(4) If assemblu options have enabled programming time selection, the message field will display the programming limit time.

(5) After compile finished, the Hex file name and Checksum would be shown below as shown in Figure 1- 13.



WHYCON Burner V1.10		
File ShowWindows Revision History		
10. 011	D <u>i</u> D <u>i</u> D <u>i</u> 🐺	
Downloaded Hex File Name	IC Connected Status Checksu	
D:\HexLoader\40_E.hex	Body on board Checksum = Ox	D2AO

Read out the Code in Flash Memory of Programmer

Users can utilize this function to confirm whether the Code in Flash Memory of programmer conformed to the Download Code. However, the input Password must be the same with that of the Download code to enable the display.

HYCON Burner V1.10								<u>_ D ×</u>
File Show Windows Revisio								
DownLoad To Flash Memor	y		D <u>v</u>	0 <u>,</u> 0	🗹 📴	3		
Read From Flash Memory								
Exit(Q)	Ctrl+Q							
		E	👹 Progra	n Memory			_	
				0	1	2	3	4 🔺
	7		000	0000	7903	0000	0000	DC
			001	16A2	16A3	B26D	7802	B2
Enter Password			002	7895	A46D	7 FFC	9E5E	0C
*****			003	B427	7 FFC	8427	6461	66
			004	7FFC	8427	6461	6661	7 F
BOK Ca	ancel		005	6461	66F8	6491	1890	AC
			006	7802	06A0	6691	36F8	78
		ſ	107 ∢	6661	7FF1	በናድ	6661	a≶▼ ▶
		Ē						
D:\HexLoader\40_B.hex				Body	on boar	d Chec	ksum = ()xD2A0

Figure 1-12

PC Online OTP Programming



HYCON Burner V1.10		_ 🗆 🗵
File Show Windows Revision History		
102		
Display Hex Code	Blank Check Program Verify Read Auto	

Blank Check, Programming, Verify and Read Commands can be implemented when the programmed file was successfully loaded into programmer or IDE Flash Memory, IC is connected as Figure 1-16 shown.,not as Figure 1-17 shown.

	OTP online
D:\HexLoader\40_E.hex	Body on board Checksum = 0xD2A0

Figure 1-2

	OTP missing	
D:\HexLoader\40_E.hex	Body not on board Checksum =	• OxD2AO

Figure 1-3



1.5.1 Blank Check

The internal code of Blank ICs that have yet been programmed is 0xFFFF. The purpose of checking the IC is to make sure the OTP address content is 0xFFFF.

To check whether the IC is blank means the OTP that will be programmed address content is 0xFFFF.

If the IC selection is correct and the content is empty, a message will appear as Figure 1-18.

III Message	
Chip Blank OK	
SBM Blank OK	
	Þ

Figure 1-4

If the IC selection is incorrect or the content is not empty, a message will show up as Figure 1-19 described.

W Message	- D ×
Chip Blank Fail	
	•

Figure 1-5

Program

The purpose of programming is to write Compiler accomplished program into IC OTP. When programming is completed and the IC is assembled as finished goods, programmer can operate the program as users commanded.

Program the downloaded or assembly finished Hex file (displayed at the bottom of the column) in the selected IC and verify the correctness of the programming content. If the selected IC is correct and the programming succeeds, message will appear at the information column, If "Enable Program Times" is ticked up, the enable program times will minus 1 and the program times left will be revealed in the message column as Figure 1-20 illustrated.



Message	
HAO Calibration OK HAO Clock = 2003 KHz Program Chip OK Program SBM OK	
Verify Chip OK Verify SBM OK Program Times Left 999 –	Show Program Times Left (If Program Times Function had been Enable
۲	Þ

Verify 🏪

The purpose to verify programming IC is to compare whether the code written into the IC OTP conforms to the program downloaded to programmer Flash Memory.

Verify programming IC content consistency with the downloaded or assembled finished Hex file (displayed at the bottom of the column). If the IC is protected by programmed, this verification is ineffective or the comparison failed.

If IC selection and program verification is success, a message will appear as Figure 1-21

Message	
Verify Chip OK	
Verify SBM OK	
•	•

Figure 1-7

If IC selection is incorrect or the program verification miscarries, a message will pop up as Figure 1-22.

Message	_ 🗆 🗵
Verify Chip Fail	
Error at 0x0000H	
•	Þ

Figure 1-8



The purpose to read the IC is to verify the consistency of OTP Checksum and programmed Hex file. To read IC content, the procedures are illustrated as Figure 1-23. The content will reveal at "Display Code" window.



W HYCON Burner V1.10								- 🗆 ×
File Show Windows Revision History	Dy De	Dy D						
OTP Model Type				•				
W Message	- D ×	Rogra	m Memory	_			Γ	- U ×
OTP Chip is 11P14			0	1	2	3	4	5
Read Checksum = 0×D2A0		000	0000	7903	0000	0000	D010	FOI
		001	16A2	16A3	B26D	7802	B226	781
		002	7895	A46D	7FFC	9E5E	0CFD	0C(
		003	B427	7FFC	8427	6461	66FC	068
Checksum		004	7FFC	8427	6461	6661	7FF8	068
		005	6461	66F8	6491	1890	A02B	78:
		006	7802	06A0	6691	36F8	7802	0CI
		007	6661	7FF1	06FF	6661	A26D	784
		008	7FFC	8427	06C1	6CFC	7803	64(
		009	7825	в427	7FFC	8427	6461	00(
		00A	6661	A26D	7813	в427	7 FFC	842
		00B	7FFC	8427	6461	7FF4	B26D	757
		00C	7838	8C26	D03B	F096	D03A	F09-
		•						
•	Þ							11.

1.5.5 Read BIE

Support Part No:HY11P32 、HY11P33 、HY11P35 、HY11P36 、HY11P41 、HY11P42 、 HY11P52、HY11P52B、HY11P54

For the chips that support BIE, while reading chip , you can see BIE information in last 64

word of Program Memory •

M Prog	ram Mem	ory														×
	0	1	2	3	4	5	6	7	8	9	A	в	С	D	Е	^
06B	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
06C	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
06D	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
06E	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
06F	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
070	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
071	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
072	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
073	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
074	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
075	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
076	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
077	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
078	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
079	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
07A	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
07в	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
07C	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
07D	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
07E	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	
07F	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	
080	9152	656F	FFFF													
081	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	
082	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	
083	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	FFFF	-
•															Þ	
																11.



1.5.6AUTO 躇

Auto integrates Blank Check, Program and Verify function. If user selects Auto, it will first check whether the IC is blank, then to program and verify.

After the execution succeeded, a message will be displayed as Figure 1-24. If the option, "Enable Program Times" is ticked up, the program permitted times will reduce 1 and the program times left will be shown in the message column.

T Message	_ 🗆 ×
HAO Calibration OK	
HAO Clock = 2003 KHz	
Chip Blank OK	
SBM Blank OK	
Program Chip OK	
Program SBM OK	
Verify Chip OK	
Verify SBM OK	
Program Times Left 999	
	Þ

Figure 1-10

If any function fails, the whole process will stop and display an error message in the message column.

2.Hex Loader Notice

2.1 Configuration Items

Pay attention to Notice 01 and Notice 03 when using Hex Loader programming software, or it would lead to error programming.

Notice 01: Please correctly choose programmers (WK01, WK02,WK05,WK06,WK07B). Notice 02: Please pick the right IC model number (chip type) that matches to the Hex Code. Note:this option function has no actual meaning,IC number selection doesn't influence programming result.

Notice 03: Mind the Programming limit time. Tick "Enable Program Times" to enable the function and input the programming times. If this function is not necessary, please do not tick.

When Hex Code was loaded to the programmer and the above 3 points were accurately set, the software will set up the programming environment that matched to your selected IC model number. Chip Type now support:

HY11P14/HY11P13/HY11P12/HY11P24/HY11P23/HY11P22/HY11P36/HY11P35/HY11P32 /HY11P33/HY11P42/HY11P41 and HY11P52



HYCON Burner V1.10			_ 🗆 🗵
File ShowWindows Revision Histor			
DownLoad To Flash Memory Read From Flash Memory			
Exit(Q) Ctrl+	0		
	<u> </u>		
	Please confirm that the burner version and chip.	_ 🗆 ×	
	Please confirm that the burner version and chip.		
Notice	01: Burner version WK05		
Notice	02: Chip type 11P14 (8K)		
	Burning limit need to manually enter		
Notice (ງ 🖸 Enable Program Times		
	Input Program T 1000		
	· · · · · · · · · · · · · · · · · · ·		
	ok		
D:\HexLoader\40 E.hex		Body on board	Checksum = 0xD2A0
p. (nexboader (40_E.nex		body on board	Checksum = 0xD2x0



The way to connect hardware programmer, please link

http://hycontek.com/e-page2.html for corresponding programmer manuals.

 When using online programming function, make sure 9V adapter is connected before connecting USB LINE. Do not unplug 9V adapter while PC connected or the PC may crash.Note:Programmer WK07B doesn't have input port Adapter 9V,only have port USB 5V.When WK07B is connected with USB 5V,OTP programming can be executed.

3 Offline Programming

3.1 Blank Function Options of Program Key

Notice: This function is only workable under offline programming and is only supportable to programmer after version of HY10000-WK02B

As Figure 3-1, when setting the software function, Program Key can set whether to switch on the blank function by selecting blank on or blank off. Then press the button of PBKUBPUT to write the setting into programmer.

If blank on is chosen: the procedure is Blank Check \rightarrow Program \rightarrow Verify.

If blank off is chosen: the procedure is Program \rightarrow Verify.

If "Program Protect" of Build Options was chosen before downloading the file to Flash Memory, the programmer will enforce to protect the file after it is verified. When the setting is finished, the setting status of the software can be read on each type of programmer's information.



ProgramKey function settings
C Blank ON
Blank OFF Blank Blank OFF Blank Bl
PBKINPUT

Figure 3-1

Notice: To observe LCM message on offline programmer, USB must be unplugged and the power line must be reconnected so as to display correct LCM message.

Please refer to correspond programmer manuals: <u>http://hycontek.com/e-page2.html for</u> <u>HY11</u>P series technical support.

Contrast documents below and refer to *Offline Programming Chapter*. WK01/02 Programmer: <u>http://hycontek.com/attachments/MSP/APD-HYIDE004_EN.pdf</u> WK05/06 Programmer: <u>http://hycontek.com/attachments/MSP/APD-HYIDE007_EN.pdf</u>

4 Information Button

Please refer to correspond programmer manuals: <u>http://hycontek.com/e-page2.html</u> for HY11P series technical support.

Contrast documents below and refer to Information Button Chapter.

WK01/02 Programmer: <u>http://hycontek.com/attachments/MSP/APD-HYIDE004_EN.pdf</u> WK05/06 Programmer: <u>http://hycontek.com/attachments/MSP/APD-HYIDE007_EN.pdf</u>

5 Error Message

Please refer to correspond programmer manuals: <u>http://hycontek.com/e-page2.html</u> for HY11P series technical support.

Contrast documents below and refer to Error Message Chapter.

WK01/02 Programmer: <u>http://hycontek.com/attachments/MSP/APD-HYIDE004_EN.pdf</u> WK05/06 Programmer: <u>http://hycontek.com/attachments/MSP/APD-HYIDE007_EN.pdf</u>



6 Revision History

Major differences are stated thereinafter:

Version	Page	Revision Summary
V01	ALL	First edition
V02	P.4	Add the supportable programmer model. (WK02B)
	P.18	Add the description of Program Key functions under offline programming.
V03	P.19	Add chapter 1.5.5 for Read BIE
V04	P6/P7/P17	Add description that programmer chip type selection(Chip Type) has no
	P8	Programmer Key executes blank function option, amend to support version after WK02B only, and apply offline programming only.
	ALL	Add information of programmer WK07B.