

Zxx Image Downloader

ETS APP

Application program version: [3.0] User manual edition: [3.0]_a

www.zennio.com

CONTENTS

Сс	ontent	S	. 2
1	Int	roduction	. 3
2	Ins	tallation	. 4
3	Fur	nctionality	. 5
	3.1	Screensaver	. 6
	3.2	lcons	. 8
	3.3	Special Characters	10

1 INTRODUCTION

Zxx Image Downloader is an ETS application which offers the user to customise some visual aspects of **Z35**, in addition to extending support for certain alphabets.

Its main features are:

- Selection of a **custom image** to be used as a **screensaver**.
- Selection of images to **customize the icons** of controls and indicators.
- Download the complete set of characters of the Arabic and Hebrew alphabets.
- Auto-detection of special characters inserted in any of the text type parameters.

2 INSTALLATION

The installer file can be obtained for free at my.knx.org, in the Shop, in the <u>ETS Apps</u> section, <u>All ETS Apps</u>.

After the purchase process, the download file will be available in the **My Account** area, in the **Products** section.

Next step is to install the application in ETS:

1. In the ETS main window, at the right bottom, select the "Apps" checkbox. A pop-up similar to the following will appear:

Apps	+ Ċ		0 active	/ 9 installed
	Install App	Vendor	Version	License
*	Compatibility Mode App	KNX Association	5.7.743.36956	A
9	Device Compare	KNX Association	5.7.743.36956	•
G.	Device Templates	KNX Association	5.7.743.36956	•
-	EIBlib/IP	KNX Association	5.7.743.36956	•
	Extended Copy	KNX Association	5.7.743.36956	•
	Labels	KNX Association	5.7.743.36956	•
	Project Tracing	KNX Association	5.7.743.36956	•
	Replace Device	KNX Association	5.7.743.36956	•
	Split and Merge	KNX Association	5.7.743.36956	•
	ETS Version ETS 5.7.	2 (Build 743) Lie	cense ETS5 Lite	Apps 0 activ

Figure 1. Installation

Once the application is installed, it will appear in the list of applications as shown in Figure 2, and will be available in the **Apps** tab of the toolbar of any project.



Figure 2. Complete installation

3 FUNCTIONALITY

Once the application is installed, it is accessed from an additional tab called DCA. This tab appears when Z35 device is selected: **Device** \rightarrow **Z35** \rightarrow **DCA**.

Devices	1.0.245 Z35 > Main Configuratio	on > General	
 Dynamic Folders 1.0.245 Z35 	- Main Configuration General	INPUTS THERMOSTATS Heartbeat (Periodic Alive Notification)	
	Translations Backlight Security	Show Time	✓ Internal Temperature Probe ▼
	nternal Temp. Sensor	Button Box Style	Black frame
	+ Display	First Weekday	Monday Sunday
		Weekdays Initials Time of Day Update Request Delay	MTWTFSS
		Update Objects Screensaver	Disabled
		Time to Consider Inactivity	1 ÷
	Group Objects Channels P	Proximity Service arameters DCA	

Figure 3. Project >> Device >> Z35 >> DCA Access

When clicking on DCA tab, the **Zxx Image Downloader** application opens the workspace window with three additional tabs: "Screensaver", "Icons" and "Special Characters" explained in the following sections.



Figure 4. Zxx Image Downloader

3.1 SCREENSAVER

"Screensaver" tab offers the possibility to select a custom picture to be used as a screensaver in Z35.

Screensaver Icons Special Characters	
Open Image	
•*Zennio [*]	The dimensions of the image must be 320x240 pixels. The supported image formats are: .png, .jpg, .jpeg and .bmp

Figure 5. Screensaver

First, next to the picture loaded in the DCA by default, the tab shows a warning message informing about the format required for a picture to be downloaded correctly to the device. The "**Open image**" button, meanwhile, will enable the desired image to be imported.

As long as the selected image has dimensions of **320x240 pixels** and its format corresponds to one of the supported ones (**.png, .jpg, .jpeg and .bmp**), a preview of it will be showed as well as a message indicating that the image has been loaded correctly.



Figure 6. Screensaver – Valid imagen.

After a valid image has been loaded, it will be downloaded when programming from ETS.

If the image does not meet the conditions described above, *Zxx Image Downloader* will display the default image with an informative message:

Open Image	
	Δ Incorrect image format. The dimensions of the image must be 320x240 pixels
•*Zennio [®]	

Figure 7. Screensaver – Incorrect image format.

3.2 ICONS



The "Icons" tab enables choosing the images to be displayed on the Z35 custom icons.

Figure 8. Icons

In the area marked with the number (1), the images for the 24 available custom icons must be selected and imported individually by clicking on the "Add Icon" button associated with each icon or by dragging the file to the row relative to the icon.

As detailed in the warning message available in area (2), in order for the imported images to be downloaded and displayed correctly on the device, they must meet the following requirements:

- Dimensions between 50x50 and 500x500 pixels, always with 1:1 aspect ratio.
- Formats must be .png, .jpg, .jpeg or .bmp.

- It is recommended that the images be in **grayscale** (4bpp without indexing), in positive (the application will invert it for representation on a black background) and with a white background.

In the area marked with the number ②, the icons will be imported as a set. For that, clicking on the "**Add Icon Set**" button and importing the *.zip extension file containing all the images will be necessary. These images must be named as "*custom_icon_1*", "*custom_icon_2*", ..., "*custom_icon_24*", corresponding to the custom icons C1, C2, ..., C24.

The area marked with the number ③ will preview, for the proper resolution of controls and indicators, the custom icons correctly loaded (both from area ① and from area 2), informing also of those whose format is not supported by the application.

lcon	Control	Indicator	
C1	\checkmark	\checkmark	lcon parameter properly set
C2			▲Incorrect icon format

Figure 9. Icons - Preview

3.3 SPECIAL CHARACTERS

"Special Characters" tab enables downloading complete character sets of the Arabic and Hebrew alphabets to the Z35 for subsequent recognition. In addition, it will enable the search and analysis of all special characters included in the text parameters of the device.

Screensaver Icons Special Characters	
Download additional character sets:	
Arabic	
Hebrew	
Search for special characters	
Analyze texts	

Figure 10. Special Characters.

Z35 is able to recognize characters belonging to the Latin, Extended Latin, Greek, Coptic and Cyrillic alphabets. The installation of *Zxx Image Downloader* will add to these, the characters belonging to the Asian font set simplified Chinese and Regular Thai, which will be considered and included in the list of special characters when a text analysis is carried out from the DCA.

In addition to the special characters indirectly included in the DCA, the user may make use of the special characters from the **Arabic** and/or **Hebrew** set. They must be selected in this tab.

Download additional character sets:
✓ Arabic
✓ Hebrew

Figure 11. Special Characters – Download addition character sets.

<u>Note:</u> See the <u>Noto Sans</u> source files for each of the alphabets mentioned for more information.

The user will be able to include any of the characters of the above mentioned sets in the text type fields or parameters of the device, but carrying out a previous search for them through the DCA will be necessary so that they can be downloaded to the device.

After clicking on the "**Analyze texts**" button, the DCA will perform a search, analysis and conversion of the characters found so that they can be displayed on the Z35 screen:

Se	earch for special characters
	Analyze texts

Figure 12. Special Characters – Search.

At the end of the analysis, the DCA will list the characters that will be downloaded in Z35 and those that it does not recognize because they are not among the characters in the downloaded sets:

Download additional of	haracter sets:	
Arabic		
Hebrew		
Search for special char	acters	
Analyze texts		
The following charact	ers will be downloa	ded:
กตล๚土努伏搊懼沦滅		
The following charact	ers are not recogni	zed:
טכת∛بعڵ		

Figure 13. Special Characters – Text analysis.

Additionally, if the number of characters parameterised in the text fields of the Z35 project exceeds the number of characters supported in memory, *Zxx Image Downloader* will indicate which of these characters will be excluded from the download:

Downlo	bad additional character sets:
✓ A	rabic
√ H	ebrew
Search	for special characters
Ar	nalyze texts
The fo	llowing characters will be downloaded:
กขขดต	ฆงจฉชชฌญฏฏฐฑฒณดตกทรนบปมฝพฟกมยรฤลฦาศษสหท้ออฯะื⊙
	၅๏୦๑๒๓๔๕๖๗๘๙๚๛欣欯獸秌焐褧煌豥燑熱熃煌鲞煟惣煝猷蛁燛煤媊燷保焢熐煡
	:煂糓拯焣傆溄燛煷燛熯婱燌逹熍嶈哅蓔爋燛褎燸熑熼爗煂鲛墲藀焟壉憸癦爑婱點儕幯媁儧
	嬏爠擨攝廢難爨罜舀看爮爼睂孿磐粱牊牉脂脁駯臇黱艜艬⊽霢朻忓钏斩柨把牣料袉粚
	蛣栶犚洉将挲埃桻梖梕莐 悖 椋掔搫櫦楤橝楬摮榞槯鎀槰樀镙壒楶樲檏襓橿蕐犦欀檽橬
	汦伒 抰 豘胘鉫袳抾茳招鉠牰 <mark>挳</mark> 狦羠挭 獀 洦烌硄狔孷揊挭挳誔鮲猊狭涾躷η獇揝獔惣湽
	掶臒獕糓猐樧溓笶猜邍漅縿漻獖獡襎擨潬穛復澾馵撌殟猰忂溛礰瀖擨瀸瀺壣籯玌刵玣 ┶覂乭侸囜垥놱垥玜趮恖虳鳿迼漝侸聑垬逬婰虴赺盕娦忎焿斏潱擨瀸瀺壣籯玌刵玣
	钙兲犻盌炄攱犾欥阧秫蝹珘珇昁珿还哬洍迧跰蛗跿涻琑硂狧踄硗踈硢璅痜焛鋑摴圕踙 髺蛼璄翢掦踨揦揙遀湙牃揓揕萡黋瓼嬵瑿擃譍瑻癛猈濄謯踸熢鬳鎆臱儑擸瀻쪌蒥麔嶎
	菳萍珟珈埦狔溂繥鴱涋祩暆壏咰壛禞祩蟚墲墂燡摴埣殜嚤瓂煡瓇溂瓄橗壦瀮裮篕筺濲 曯摙遘舋璅灉窹孾蒪躧沊쇅郆餰萂陖釰龥薊臄嵰斸劏欚胘瓵咓瓬揯宭甇粚皈吰趆瓹砙
	渪 <i>禐嶶亖噅澋瘨霮阀墔瓝匸咰ᇞ袧昽奺爴襒瓟嚑凾噑颹肞峈嘫껞尦</i> 斍斍忛呁繎檆赿睵 勈甈砤娍甈菿硰齀蛦蛓鼚頸鏥騉瓺鏥鼦甐瓶蔍硰甀娫勴齫酁麘鈪蘱嬱貾顪甇黫豒剱奱
	噅酟ᇭ凂颒袑廴韷笍ಇ鳦颒甋佔兝甋甋礛礛恖娊閷樕勴剱熋婸鶅۔廴戝葝覍 襘榺旜貹雥奜甹劰閄貥阭圼眗眢銐罜酹脥豍睶晠睕騥畨賹暛贂譄斖諨曐贘 <i>땞疻疠疦</i> 洝
	流度疲疲有活症愈寒疾痛疮疮痢疾痢痛痢疾疾疾病病症患痢疮痢痹痒痢疾;
_	
	Illowing characters are not recognized:
ݞݠݤݥݩ	719 ف تكبي مُعْطَسُوا أَخْرَّرْ سَعَ
The fo	llowing characters will be excluded (not enough memory space):
痛痤瘦	瘒庮荹躻啣娕痊痓瘖癛瘏槀噾癑痻痳揘痮痸襓瘷痠痓廍蔳瘊鳸痶廌窷兣瘎鶱癰瘒黀廗
	<i>璯癕遀瘄澟籡癬庴瘒遃癨雟靋灜癎瘇痲噾痶廲澟</i> 狺叧竓岶絖臰譻暍睶睳睯嬦曪嶫肒踥
	虠髲햾艡毓颇覫鞁鰻繨糓盂莁盆宝⊆溫 淔 寪囨寍捦齹薀盬罿灐 繵衋 魐眕訍盰旫眣詽聈
	酙昲钼貼眣郰 謍跞聐 晎甛眳胻跲跧踜貥晡輍艂矃眱踁饓誏勓矕鿃篬睓脤鯅鬠齭晜賩鬠
	뉹讆睝睝騽曗眱晠諪騕碤踼睈騣鰀腛畻暟鰩暥瞁蹗鴖謍謍艖隒熌嫙隯蹢讈睻暯鎆螰螹 玂踚頺婃曞蠂荶鐕蔳煭 礛
	矒瞗蹞膮躀隦譠擐敶謍譨隦曎鱳睲矘踜髾鏕嚵躣睭壨韑敄扭赨鞣獞穝禶妱炪兟娮婗緈 - 伮矹砐矷硸弤雬妿矤斫硋咃硔碮诊碂禉峉褤
溶白铊	,以仰奴切好氏以木石灰虹吟嘶削防哆弥相借像

Figure 14. Special Characters – Enough memory space.



Join and send us your inquiries about Zennio devices: https://support.zennio.com

Zennio Avance y Tecnología S.L.

C/ Río Jarama, 132. Nave P-8.11 45007 Toledo. Spain

Tel. +34 925 232 002.

www.zennio.com info@zennio.com

