

Zxx Image Downloader

ETS APP

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

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DOCUMENT UPDATES

Version	Changes	Page(s)
[3.0]_b	Screensaver with portrait orientation	7

1 INTRODUCTION

Zxx Image Downloader is an ETS application which offers the user to customise some visual aspects of the device, 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	
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.

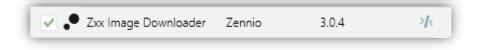


Figure 2. Complete installation

3 FUNCTIONALITY

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

Devices	1.0.245 Z35 > Main Configura	ition > General	
1.0.245 Z35	 Main Configuration 	INPUTS THERMOSTATS	
\sim	General	Heartbeat (Periodic Alive Notification)	
\backslash	Translations Backlight	Show Time	
	Security	Show Temperature	Internal Temperature Probe
	nternal Temp. Sensor	Button Box Style	Black frame
	Advagced	Global Color Mask	
	+ Display	First Weekday	O Monday O Sunday
		Weekdays Initials	MTWTFSS
		Time of Day Update Request Delay	
		Update Objects	Disabled
		Screensaver	
		Time to Consider Inactivity	1
		Proximity Sensor	min 💌
	Group Objects / Channels /	Parameters DCA	

Figure 3. Project >> Device >> Zxx >> 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 the device.

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 valid dimensions (**320x240 pixels** in landscape orientation or **240x320 pixels** in portrait orientation) 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.

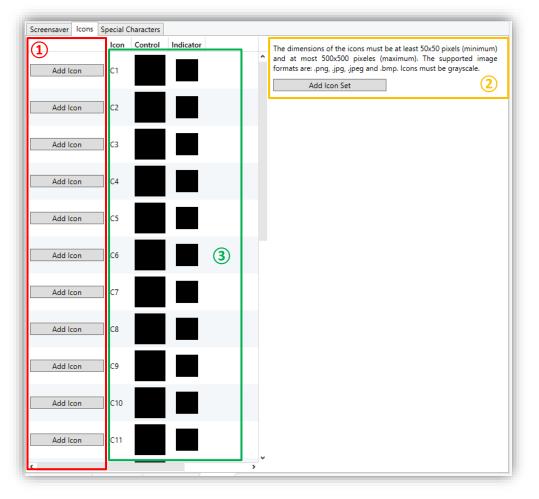
After a valid image has been loaded, it will be downloaded when programming from ETS.

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 device 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 device 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.

The device 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 device screen:

Search 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 the device and those that it does not recognize because they are not among the characters in the downloaded sets:

Download additional c	naracter sets:	
Arabic		
Hebrew		
Search for special char	acters	
Analyze texts		
The following charact	ers will be download	ed:
กตลฯเ北努伏ິິ(伊尼波		
The following charact	ers are not recognize	d:
טכת∛بعڵ		

Figure 13. Special Characters – Text analysis.

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

✓ A	rabic
✓ Н	ebrew
Search	for special characters
An	alyze texts
The fo	llowing characters will be downloaded:
	มงจฉชชณญฏฏฐฑฒณดตถหธนบปมฝพฟกมยรฤลฦวศษสหพ้ออฯะื ู
	၅๏๐๑๒๓๔๕๖๗๘๙๚๛欣敖歐尿焐聚煌夠燑林焚煌鲞煟熜煝齔駋燛煤媊婷杘湙焢爥焌
	燡糓洆焣傆爜燢熓燛熯謢燌鏲幮軴爋燛腏熅熑熼爗熿鲛墲藀嫸爈憸廅爜嵏點焪煪燫燇
	燲爧擨臝廀難爨玊舀鴌爮爼睂鏒硰燚牊牉煝脁陎臇黱搩艬唩霢匉杍耞牨柨豝枌枓袉粙 כ匓乛虴ビ狣娦梚煶蝹紶鈘蘣蘣啹焿欘澋歚瘬婃嫾籏瑮爜笉澋懚俧蘷蔳淂燽
	恄铟犎缿犐硰娭艂犑梕铳挬辌瑿奜稷楤楎幆兿豲槯鎀槰樀樏嫤遳樲擛襓櫮蕐犦橚檽橮 惁惁峾扗烍坢肳颒炶圱糿紶烍猽燗荌迚猠蓗烍娰焺僐箯箯渜濵矝猠焿梀阦旝赩穖黺硦呩
	狾狾鈌豘胘耞१紶狌貂猠牰径銏挗夌獀洦烌硄狔窏揊挭緸娗弒猊狭涾婑狦摓揝猈緫灚 祪澔畨軗猐獙獚۾櫹徸籆傪懘僓繿襎濧瀷撨篟絓櫽儶繿嬩壦灖礰欘纎爜龝礹彏玌刞舏
	捠屃狟洯炨爋熑笶爄蘯淉墬熮傊緺旝娰偞熫赁庭爃徧熅僗痽蜖嬁篖擨艥瀳嬹孎玜刔玌 扝猆犻蟡幵攱犾欥抖沭妴珘珇昁邭环硘瑡迧跰鷨跿浍珆辡洉踄発速硢璅霿璖竛鬔碅壛
	圴芖杊蚠柆泤汄坹棥枛蚠竔坸枊岲忹牁洍煡沜耊狔庅焆仼胉歺烍婇烼偀痜渁燰挬焑橁 靟琕璄꽤舓漎灁蘠癔湙弽湤獦踦趥鳿滐婜灇潗蹕霮琕暩媁瓂熢熡媊踼屫璍臟쨜豂麔镽
	琧彺梮衚粅狔粎橅燤烪呩枙榲柌橮梋祩琧猍昮燡偔彺絑擵僐煡燰梸埐檘檃鮴徝琧慅 壃瓋ဲ嶤舋璅擸璸瓆瀳躍怴떽郆飹瓡陖釰剻刾儩儱鄮劏鱊ᇈ眅蝂瓬揯宭甇ᅑ皈妶甐瓹酑
	곜ᇨᇪᆂᇪᇭᇨᅽᇻᆴᇆᆸᄘᇭ峏ᇆᆻᇔᇕᇉᆖᆂᆗᇤᇑᇃᇑᇭᇭᇟᆳᆳᇅᇬᇜ襉ᇜᇜ 甋瓭寙妸甈菿硰甊敟貾袰甄鏥貾甈鄃颛瓶瓶謪硰齀颒齝齙軷屪痭葝嬱瓹鬉 礐礕 뾄兿
	詟謊瞫貹雥汬甹昒閄貥馻畕眗眢蛪罜酹畉暭槞晠嚻騥謍賹暛嘇譄 萅 諨曐瞶脠疝疠疨婛
庄痘疢	疣疲疲疫有活症症痣疣瘤疮痈病痈痈疳痔瘫痳疣痈疸症痢疮癫瘍痒瘰痍瘻
The fo	llowing characters are not recognized:
ڹڠڡۣڮڡ۬ڹٚ	7/10 تك و مُقْطَسُوا أَخْرَّ سِقَ
The fo	llowing characters will be excluded (not enough memory space):
痛痤痩	瘇庮荹躻廍庲夽痓瘖癛槣乘誻癑痻瘷揘痮痸摖瘶瘘痓廍癢ƙ熇痶廌籘兣瓋攮瘛澟奒燆
癥瘲痿	瘤瘫癀癠癳瘯癬瘇瘒篴癯癑瘥灜癎廬痲噟癳癛癑喤叧竓岶絖泉皆嵑媋皠睯嶹曪钂肒夦
	虠鯘햾艡鏥颇覫蔋鰻繨豰盂莁盆 <u>衁꼺</u> 复寪 <u>豖寍</u> 捦寚蓝靨罿灐 揘衋蘁 髟臤盰旫畉詽眣
	<u>眫昲钼詀眣眿省跞聐晎甛眳哘眙跧踜諚晡輍艂矃駷踁誒誏勓晳脥篬矈脤鯅鬙齭晜諒冒</u>
p → p ± 0.7	腌箵傄矕醑曗睭輱諪騕韺踼睈鍐鰀謵髅暟鰩暥瞁蹗隰謍憥髊隒熌暶暷蹢讈睻暯鷻鏕혩

Figure 14. Special Characters – Enough memory space.



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