

DSP-7-PA

Controller for amateur radio power amplifiers with large 7" TFT touch color display

and many measurement functions, sensors and WiFi webinterface

User defined images

The DSP-7 controller has many images, mainly for the selection menu, some buttons and others. These images are stored in the flash memory. The user can update this with their own images by writing compressed images to an SD card. This SD card is inserted into the SD slot of the display. During boot-up, the images are written from the SD card to the flash memory.

The original images are available [HERE](#). You can change all images or just a few.

The creation of images is done in five steps:

Step 1: Draw images with these names and this resolution (x / y):

Filename (case sensitive):	Resolution (x, y):	Description:
a1	310 x 120	Antenna/Band menu, antenna-1
a2	310 x 120	Antenna/Band menu, antenna-2
a3	310 x 120	Antenna/Band menu, antenna-3
adcvals	96 x 96	menu icon: ADCVALS
antsw	96 x 96	menu icon: ANTENNA
arrdnpr	64 x 64	Arrow down pressed, for value entry
arrowdn	64 x 64	Arrow down not pressed, for value entry
arrowup	64 x 64	Arrow up not pressed, for value entry
arruppr	64 x 64	Arrow up pressed, for value entry
attentio	48 x 48	Warning symbol
bridge	96 x 96	menu icon: BRIDGE
bt_off	200 x 60	Emergency OFF button: normal (German)
bt_on	200 x 60	Emergency OFF button: off (German)
bt_off	200 x 60	Emergency OFF button: normal
bt_on	200 x 60	Emergency OFF button: off
calib	96 x 96	menu icon: CALIB
gn48x48	48 x 48	green button
greenbut	32 x 32	green (+) button
history	96 x 96	menu icon: HISTORY
limits	96 x 96	menu icon: LIMITS

overview	96 x 96	menu icon: OVERVIEW
pmeter	400 x 280	photo realistic Power/SWR meter
powerbar	96 x 96	menu icon: POWERBAR
rd48x48	48 x 48	red button
redbut	32 x 32	red (-) button
results	96 x 96	menu icon: RESULTS
splash	200 x 111	graphic in power-op screen
status	96 x 96	menu icon: STATUS
switch	96 x 96	menu icon: SWITCH
swrmeter	96 x 96	menu icon: SWRMETER
system	96 x 96	menu icon: SYSTEM
touchcal	96 x 96	menu icon: TOUCHCAL

Step -2

Save the image as a bitmap in 5-6-5 format. Many graphics programs (i.e. GIMP) can export 5-6-5 bitmaps. The file extension of the bitmap must be .bmp

Step -3:

Compress the bitmap files. This will only work in a Linux console. Copy all bmp files into a separate folder. Also copy

this program

into this folder and give it executable permissions (chmod 755 bmp2cmp). Then run the program (./bmp2cmp), it will convert all BMP files to CMP files.

Step -4:

Copy the CMP files to an SD card (normal size SD card, FAT32 formatted).

Step -5:

Insert the SD card into the SD slot in the display.... Turn on the DSP-7. The screen shows the copying process of the graphic files into the flash. When done, remove the SD card!

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Some of the original images are from <http://www.iconarchive.com>

At the time of download (October 2017), these images are marked as "free for commercial use". Licensed images are not used. Images I have drawn myself are also free for other purposes.

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