Roland Richter

SPS - Programming

Software Development

Internet

WinTSC 70p
Software for the TSC 70p

WinTSC 70 developed of the company Tasco in co - operation with Roland Richter, DL8LZM, particularly for the SSTV converter TSC 70.

TSC 70 is a product of the company Tasco. The selling in Germany takes place via the company:

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> Tel. + 49 37605 - 5580

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Configuration of the TSC 70

After you the TSC 70 to have switched on can start you the program.
Now you can adjust your desired interface over the menu setup.
Please you examine the appropriate configuration of the jumper in the TSC 70 before.
(Communication for the serial interface RS 232).

Condition for System

WinTSC 70 version 3.0 runs exclusively under Windows 95/98 and for modern equipped computers with appropriate resources was developed. Minimum requirement is a pentium II with 100 MHz clock frequency. The ram should at least one size of 16MB amounted to (32MB is recommendable).

On the non removable disk 20MB should be free at least.

A true color graphikcard with at least 64k colors should be used.

The depth of shade asks in attitudes/system control/announcement/attitudes on rear-color (24 o.32bit) or true color, small character font adjust - 256 colors are not sufficient!!

One achieves an optimal representation of the program with a dissolution of diagram of 1024 x 728 pixel.

The transmission rate of the interface amounts to 115,2bps.

Operation of the Programms

The version WinTSC 70 is suitable only for the use with the TSC 70p and successors well known DOS program EB232VP.
Before the sstv program is called, the converter must be switched on, since it is initialized when starting. A treatment of pictures is possible during the receipt of and/or sending.

Hint 1

Switch always only the current supply on to the converter, before you start the program. Only like that a correct initialization of the converter is ensured by the program. Otherwise it comes to malfunctionings with the enterprise (No connection to the TSC 70).

Hint 2

Select please a character font, a character size and a writing color. If you would like to represent the letters diagonally or with shade, select please the options.

Hint 3

A small on-line assistance is available that is called, moves one the mouse on a autton or a field appears a small yellow assistance sign.

Hint 4

Select the appropriate SSTV RX o.TX Mode. Martin M1 is preset. In order to stop the free run mode, you use please the button RX Stop.

Stop the sstv transmission with the RX Key on the remote maintenance.

Hint 5

Very many functions can be implemented with the help of the Drag & Drop of procedure and the left and right mouse button. Their pictures can work on and mark you, use you the intermediate file and use you your existing plot routine.

Hint 6

Only pictures in the picture format 420 x 256 pixel are supported.

Hint 7

If the receipt of the picture is broken off, use please only the button RX Stop, in order to ensure a new correct start of the new picture.

Hint 8

You can select the function Auto Save, if you liked that your picture is stored automatically by the TSC 70 into the pc in the listing of the memory.

If a picture is received automatically, the button RX Stop changes into the color green. You see in the statusbar receipt or the appropriate sstv mode simultaneous in the status announcement. If the picture is to end, the button RX Stop changes into the color red and in the status indication you see Ready to receive.

With the Button 341 x 256 can pictures from the RX Window in a dimension of picture area by 341 x 256 pixels in the picture format * bmp be stored.

Messages and Errors

"No Connection to TSC 70p. Control please the interface (Setup) and the Jumper in the TSC 70p"

Control whether the TSC 70 is correctly adjusted switched on and the jumper in the TSC 70. (Interface).

"No responce from the interface "

Control the adjusted interface in the software.

"Can' t create distination file "

The listing exists not or damages.

"Can' t open source file'"

The file is missing any longer or is damaged.

"Can' t file C:\Wintsc70\Kleinbilder\Bild1.bmp create"

The listing of small pictures existed not or is wrongly written.

"System resources exhausts"

The picture can not be loaded, loads you please this picture over a graphic program and uses it the windowsroutine copying and inserting over the intermediate file.

"Picture is not correctly loaded into the TX/RX window (display format)"

The picture does not have the appropriate size of (420x256 pixel).

Character font define

After the start of the software you can define the following options:

- with the button "Font" and in the same menu with the button Shade, the shade color select writing the character font/character type,

- in the field "Turn" can you turn the text , (positive value - > left to turn, negative value - > right to turn) auf reason of the many different character fonts, is to be turned it not possible these

- with the check box "Shadow" can they the shade in the text activate,

- with the check box "Italic" can be represented the letter diagonally,

- with the button "Color" can be changed the writing color,

- accordingly to it you know character size change (Value of 20-60),

The desired writing is represented in a window as writing example.

Standard text select

They have to define the possibility according to text the buttons.

- with the button "Add…" you add a new text,

- with the button "Cultivate" a selected text,

- with the button "Delete" is deleted the selected text,

- with the button "Under Entry" can insert you a under entry to a text,

- with the button "OK" is copied the selected text into the text input field,

- with the button "Save" is stored the defined texts in a file.

Texte input

Over the field you have text input the possibility ,

- to insert selected text (from the dialogue standard text), insert with the help of the right mouse button. (Windows clipboard).

- Text in the text input field to enter (16 letter max.length) and with enter to confirm a framework appears with the mouse is placed in the TX Window.

- to transfer text with the help of the Drag & Drop procedure from the text input field to the appropriate text buttons 1- 8. Here button another font (Size, Style) can be defined, for each text.

- desired text button, it appears now the text framework in the TX Window and you click can this with the mouse place (left mouse button).

Other inscription possibilities

If you would like to insert a contestnumber, then you click please on the field contestnumber
It begins with number 001 and as framework in the TX Window is represented.
You can change the number, by clicking several times with the left mouse button, number more largely or with the right mouse button click number smaller.

If you terminate the program, the last number is stored and called with a restart again. If you would like to insert a rapport RSV, then you click please on the field rapport and enter the numbers, confirm you with the left mouse button and place the framework in the picture.

If you would like to enter the call signal, click to the appropriate button on or activate the colored representation of the call signal in the right lower corner. They have the possibility of mark-using their pictures themselves in any diagram program you the intermediate file to and/or-insert in order to copy your picture.

If you activate the checks box insert callsign, the call signal with a firmly defined front and color are faded in in the right lower corner in the TX Window.

Picture store

TX Window   (Store in the picture format *.bmp)

They have the possibility this picture in the main window with the help of the Drag & Drop of procedure into the intended picture 1 - to transfer picture 16. This picture is stored as file with a sequential number (Bild1.bmp) and loaded with each restart of the program again with (listing of small pictures).

If you would like to delete individual pictures from this overview, ask only the waste-paper basket to use.

There is further the possibility of storing a picture over the button save. This picture is stored automatically into the TX catalog as file with sequential designation (Bild1.bmp).

Over the save button have you the possibility of storing the picture under a name of your choice.

RX Window   (Store in the picture format *.jpeg and *.bmp)

They have the possibility of storing this picture over the button save into the RX catalog as file with sequential label (Bild 1.jpg).
If you clicked the Auto Save Pic function (automatic storing of the received pictures), then these pictures in the listing become memory in the format z.B.270599_160055.jpg (DateTime.jpg).

Over the save button have to store you the possibility the picture under a name of your choice.

Picture load

They can load a picture,

- from the miniature picture 1 – picture 16 with Drag & Drop into the TX Window,

- over the button open in the TX Window,

- in the picture catalog you can select a picture by a simple click
  (TX and picture catalog 1-18),

- over the clipboard from any graphic program,

Picture print

If you would like a picture from the TX or RX Window expressions, select over the menu the appropriate function. The picture is printed out in the format 341 x 256 pixels.

Picture Catalog

It the possibility stored pictures

- in the RX catalog picture 1 - picture 12 (picture format *.jpeg),

- in the TX catalog picture 1 - picture 5 (picture format *.bmp), in the picture catalog 1-18
  (display format cat0.bmp) to select in the listing Im0-Im17,

- to delete (shift into the paper basket),

- to insert from the TX or RX catalog into the head picture catalog 1-18 with the help
  of the Drag & Drop procedure,

- through simple click on a picture (TX and / or main picture catalog) to select,

- if you would like to send the pictures from the RX catalog, transfer the picture into the TX catalog!

  They have the possibility of marking the individual catalog Buttons and the pictures in pictures the catalog over the text input with Drag & Drop. The selected catalog is fat represented in the style of font.

Miniature of Picture

At the lower edge is a miniature picture. It ensures clarity and control of the pictures which one from the TX window over Drag & Drop inserted or in the RX window received. These pictures can be inserted again over Drag&Drop in the TX and RX window.

To call of the program these pictures are loaded with. You would like to delete one of the received pictures. Use the waste-paper basket and select the picture which can be deleted or delete the appropriate file in the windows explorer (picture 1 - picture 16.bmp). The received pictures in the RX window are stored automatically in the thumbnails in the listing of small pictures and memory.
If all 16 pictures are occupied, begins that store again with picture number 1.

Further the possibility exists to put pictures down from the TX window into this border.

Note: If a picture from the thumbnails on a picture loaded in the TX window is put, this can with one singleclick (left mouse button) on the picture to be again removed. The original picture becomes again visible. In the RX window does not function this procedure!

Picture in picture function

This function is fundamental only in the TX window possible that is called, one selects over the appropriate Button at the RX window this function. Now the picture appears as frameworks in the TX Wndow and you can do it with one doubleclick in the picture to place.

Beaconfunktion

Before you activate this function, adjust the desired picture catalog, from which the pictures are loaded.
You know the beacon function over the button Setup in the main menu select.
Afterwards you stop the interval time, as well as the desired SSTV mode and press start button.
Now the picture is loaded into the TX Window, after into the TSC 70 and send in the mode
Robot 36 or Martin 1.In the status indication you see the beacon time and the number.
Would you like to deactivate the beacon, do set you the interval time with the check box set on zero.

Repeaterfunction

The Repeaterfunktion can switch you on / off over the menu Special.
This function is possible for all 6 SSTV Modies.

After the program recognized the appropriate SSTV mode, to 2s the received picture in the memory of the TSC 70 in the same mode is again send.

Spectrumanalyzer (Tune)

WinTSC 70 contains a SSTV spectrumanalyser useful for the frequency tuning, over the button tune to be called can. A condition for the function is that map of sound of one is present, at whose Mic entrance the NF signal by the receiver or by the TSC 70 SP IN is fed. The enterprise of the spectral announcement offers additional comfort, is not however not compellingly necessary. During correct frequency tuning constructs itself on the left of the points for the synchronous impulses (1200 Hz) rhythmically, right beside it extends the remaining SSTV spectrum (1500Hz to 2300 Hz).

Speciale Function

Pic/Tx	Please select the sstv mode. Picture in the TX Window loading, before sending automatically into the TSC 70
Save Pice Auto	Picture in the RX Window loading from TSC 70 and store automatically (picture format *.jpeg)
Digitize	Picture from hand digitizes
Self - timer	Picture after 2s one digitizes automatically
Self -timer 10	Picture after 10s one digitizes automatically
Memory 1	Select memory 1 in theTSC 70
Memory 2	Select memory 2 in theTSC 70 (only is the second memory on board from the TSC 70)
Rx Stop	Receive stopped
TSC -> PC	Load picture from TSC 70 into the pc (RX Window) and store in the picture format *.bmp
PC->TSC	Load picture from pc (TX Window) into the TSC 70
Catalog	Select picture catalog
Standardtext	Selcet standardtext
Tune	Announcement of the SSTV signal and co-ordination assistance
Setup	PC interface and beacon setup configuration
Testpicture	Select Testpicture
Callsign	Insertion of the call signal, into the right lower corner of the picture
341 x 256	Picture from RX Window store in the format 341 x 256 Pixel (*.bmp)

TX Window

TX Mode	Send in Mode R36 / 72, M1 / M2, S1 / S2
Load picture	Load the picture into the TX Window (picture format *.bmp,*.jpeg)

Save picture	Store picture from the TX Window in the picture format *.bmp
Copy picture	Copy the picture from the TX Window into the clipboard
Paste picture	Paste the picture from clipboard into the TX Window
Save as...	Picture under a desired name store (picture format *.bmp)

RX Window

RX Mode	Start picture from hand in the mode R36 / 72, M1 / M2, S1 / S2 (Free Run Mode)
Save picture	Store picture from the TX Window in the picture format *.jpeg
Copy picture	Copy the picture from the RX Window into the clipboard
Picture in picture	Selecet picture in picture funktion
Save as...	Picture under a desired name store (picture format *.bmp)
Rx Stop	Receive ist stopped
TSC -> PC	Load picture from TSC 70 into the pc (RX Window) and store in the picture format *.bmp

Use conditions

Adhesion and copyright regulations:

The copyright and the selling exclusively are with the author and the company Loescher- electronics.

The program, the sharewareversion beta 3.0 and the full version can become with the company Loescher-electronics registered.

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I do not take over any adhesion for direct, indirect or as consequence occurring damage, which could result from the use of this program.

The program is in the development stage, therefore it is not impossible that still some errors are discovered.

Purchase of the program

The current in each case purchase prices, for the sharewareversion beta 3.0 and the full version can under the address

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Further a support for WinTSC 70 is under

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Information about the Software

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TSC 70 is a product of the company Tasco. The selling in germany takes place via the company:

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