

Instructions to download a screen saver/idle screen logo to the Smart Touch display

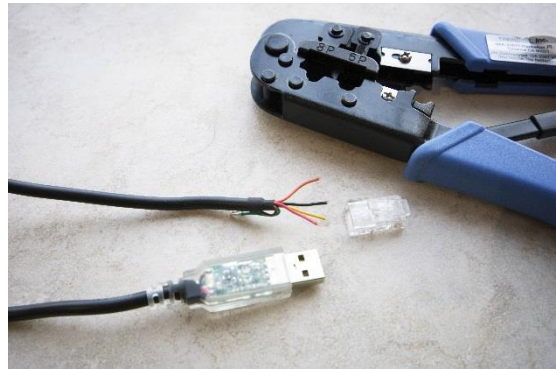
For use with Dometic P/N 222200400 with software version A22 and 222200404 with software version A23. These instructions were updated August 2017.

Items needed:

1. Smart Touch downloader software application. This is a program that allows to download custom graphics on the Smart Touch display while it is on Sleep or Idle Mode. This software works only on Window Computers (no Apple.) You can download the latest version of the program at this link: http://microair.net/downloads/SmartTouch_Downloader.zip or <http://apac.dometic.com/stcabincontrol>.

2. USB to TTL Serial Cable. This 5V cable is used to connect the PC to the Smart Touch display to download the graphics. For this cable to work, an RJ-45 end must be crimped on.

- Manufacturer part number for this 5V USB cable is TTL-232RG-VSW5V-WE.
- One source to buy this cable is at Digikey.com and their part number is 768-1096-ND.
- To buy this 8-pin cable complete with the RJ-45 crimped on, order part number SUB-082-X00 from Microair.net.
<https://www.microair.net/products/easytouch-custom-logo-programming-cable?variant=29191313803>



3. RJ-45 connector and crimper. This will need to be crimped on the end of the cable per instructions under Procedure.

4. Cable driver. A driver must be installed to the PC for the cable to operate. In some case, the driver will install automatically by simply plugging the cable into the USB socket. If not, then visit FTDICHIP.com for drivers. <http://www.ftdichip.com/Support/Documents/InstallGuides.htm>

5. Image. Image must be saved as a 24-bit BitMap (BMP) file to download to the Smart Touch. To resize your image, use a program such as Microsoft Paint (included on most Windows computers) or getpaint.net. Click 'Resize' or 'Image > Resize', enter the sizes, then save as a BMP file. If the compressed bytes are still too large, see the TIPS section of this document. The maximum size of the image file in pixels and bytes are as follows.

Width <= 310

Height <= 240

Bit Depth = 24

Compressed Bytes <= 11776

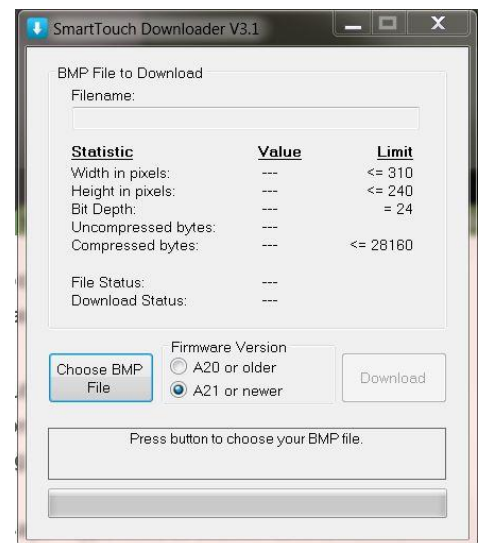
Procedure:

1. Install the cable drivers.
2. Skip this step if you bought the complete cable from Microair.net. Crimp RJ-45 to end of USB to TTL cable following this pinout. Pins are from left to right with the clip facing down.
Pin 2 = Orange
Pin 4 = Black
Pin 7 = Yellow
Pin 8 = Red



Note: the wires of the cable will not fit through the channels in the RJ-45, so first stretch the insulation on the wires with your finger. Trim and insert, pushing the wires to the end of the RJ-45. DO NOT STRIP THE WIRES. This is an easy way to cause shorts within the RJ-45.

3. Insert the RJ-45 connector into the back of Smart Touch display.
4. Install the Smart Touch Downloader software. Follow the prompts to complete the installation.
5. Connect USB side of cable to USB port of Windows PC.
6. Open the Smart Touch downloader program.
7. Put Smart Touch in Download mode.
 - a. Select Main Menu.
 - b. Select System Setting.
 - c. Select Sleep Mode Settings.
 - d. Select second page of Sleep Mode Settings.
 - e. Select Download Custom Logo. This button will light up only when the Smart Touch detects that it is connected to the downloader program on the PC via the USB cable.
 - f. Smart Touch should show a display where it says that it is waiting for PC program to start downloading the file.
8. On the PC program, click Choose BMP File to select the file to download.
9. Click on Accept if the file size is within the limits.
10. Click on Download.
11. A Success status should show on PC program and Smart Touch itself.
12. Once the download is completed, select Back on the display.
13. On the Sleep Menu, press Down to go to the first page of the Sleep Menu page.
14. Select Sleep Mode Display.
15. Using the arrows, select the Custom Logo option.
16. Press the Save button.
17. To test it, go to Main Screen and press on the Dometic logo at the top to force Sleep mode.



TIPS

- An alternative way to crimp the RJ-45 end is to use an “EZ-RJ-45”, which allows you to pass the conductors through the front of the plug (after stretching) and then trimming them off (automatically) with the associated crimp tool.
- If in the downloading program you see the error message, "Acknowledgement from SmartTouch not received within 5 seconds," it means that either your SmartTouch was not on the download screen, or your RJ-45 end has an internal short due to incorrect crimping. This is a common code when wires are stripped prior to inserting into the RJ-45 end.
- If the compressed byte size of the image or logo is still too large, either make the image size smaller or try to compress the image further using programs such as Photoshop. Complex images like color photos need to be shot in the lowest resolution possible, compressed and saved as a JPEG, then resaved as a 24-bit BMP. Even then there's no guarantee that your color photo can be compressed small enough to fill the screen. The images may have to be sized smaller than 310x240. It's a bit of a trial & error process. Keep in mind that smaller images do move around the idle screen.