

SDG-3000

使用操作手冊



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1. 硬體介紹

1.電源開關(綠色)

2.USB 連接埠(藍色)

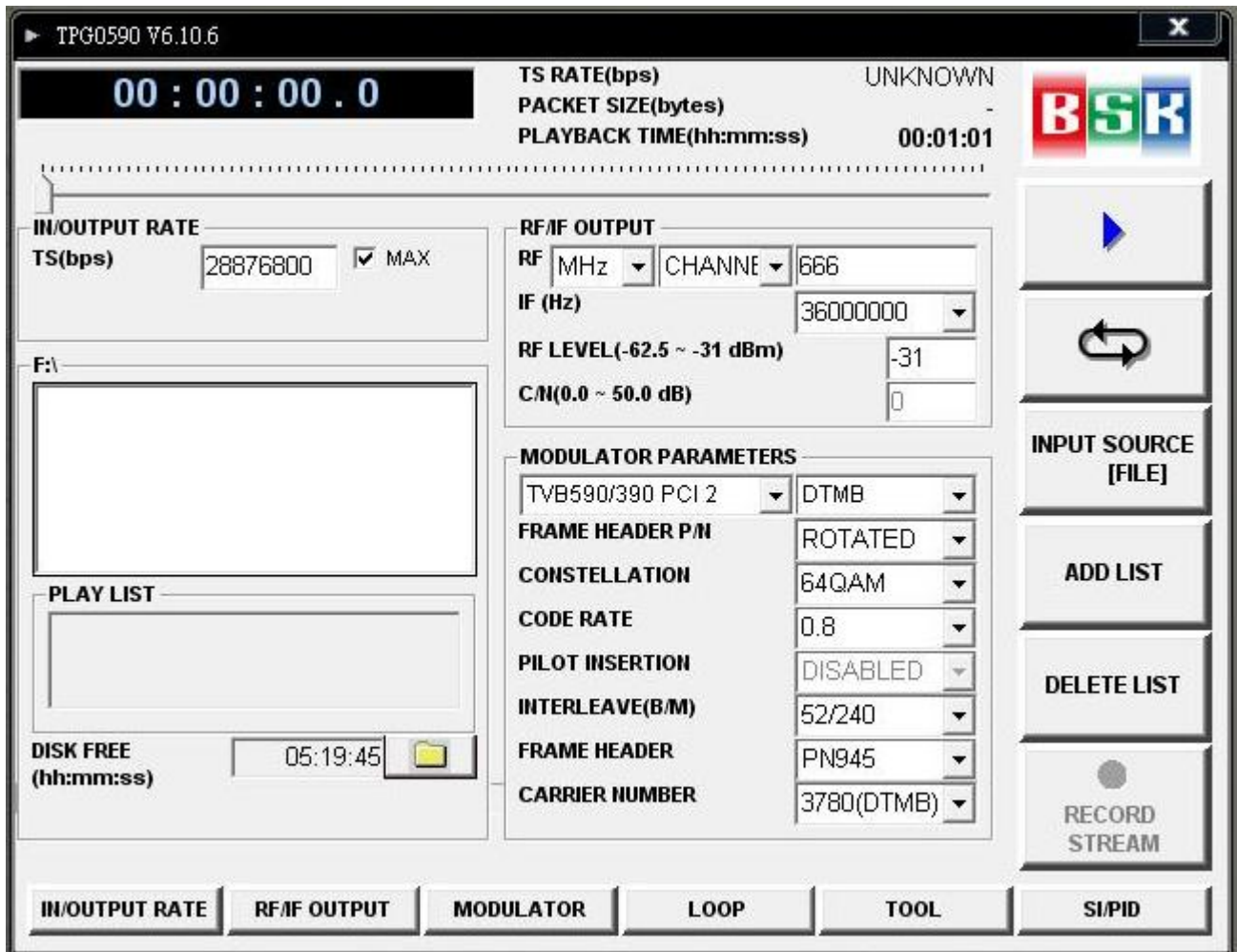
3.BNC 連接埠說明 (紅色)


RF Signal Output (**BNC 介面; 訊號輸出請連接此介面**)



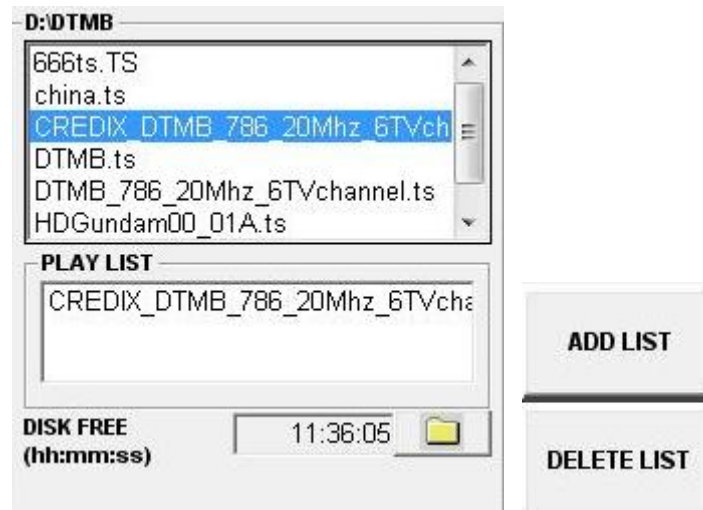
2. 軟體操作介紹

2.1：功能區塊介紹

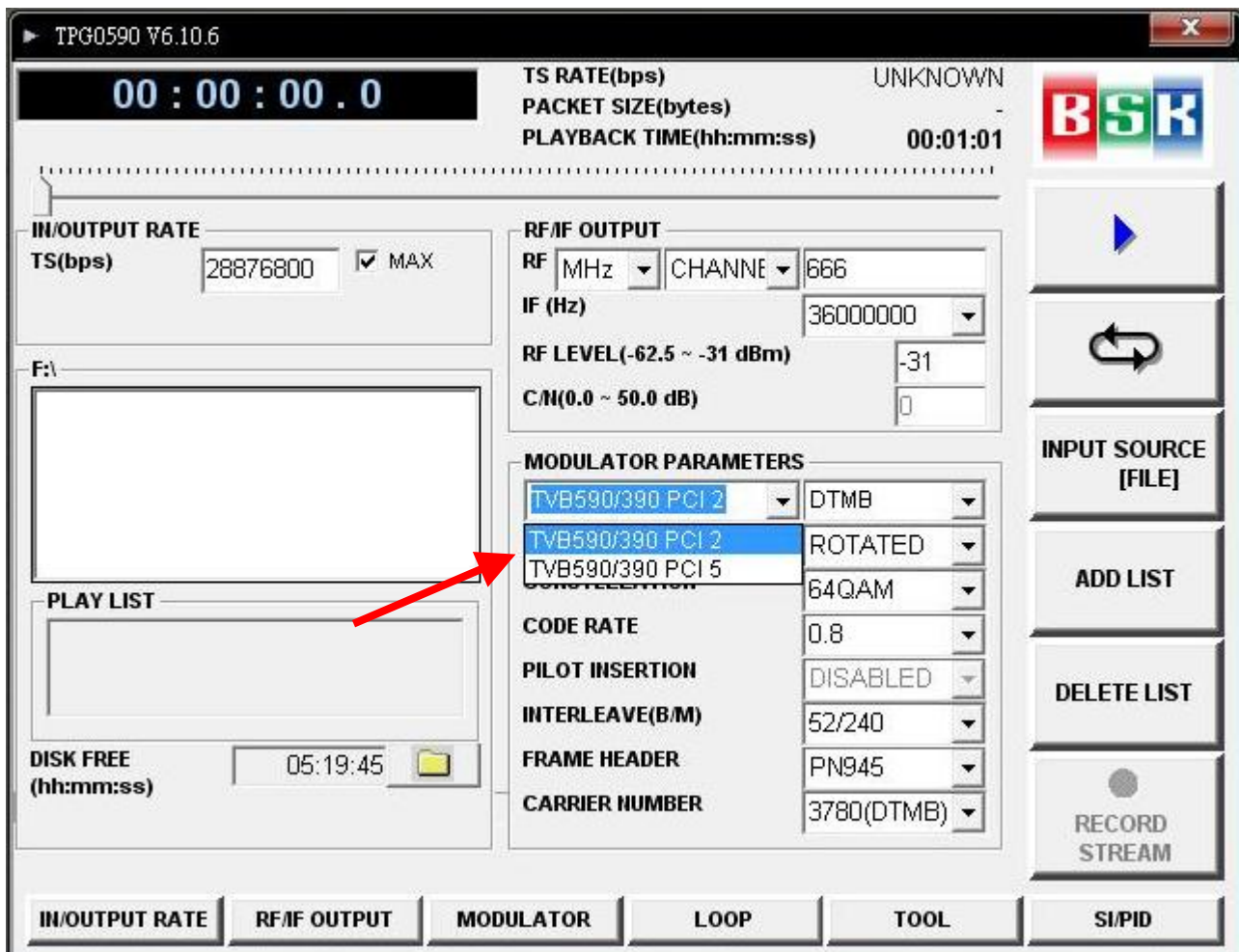


A、選擇 TS 檔案夾：

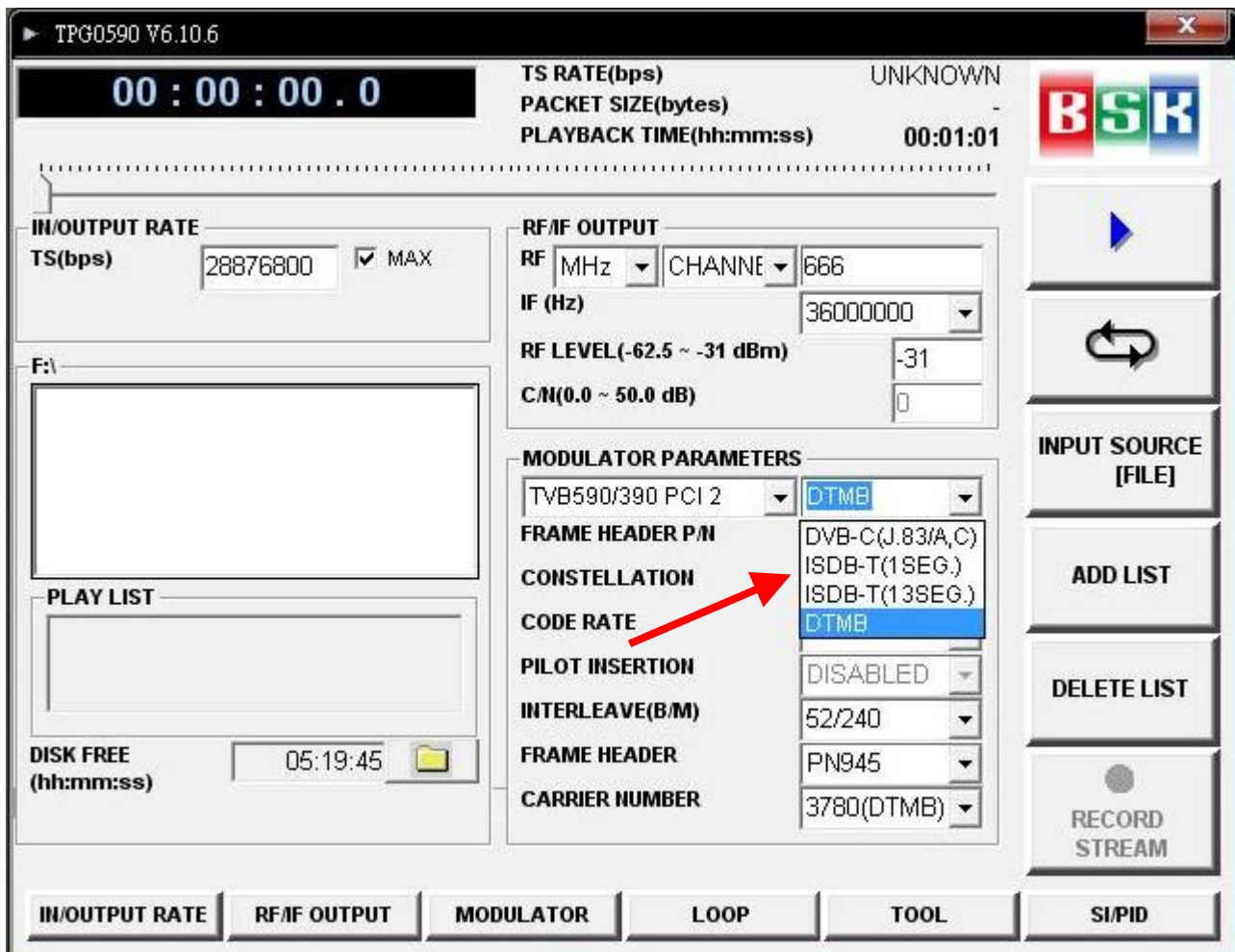
B、選擇播放 TS 檔案



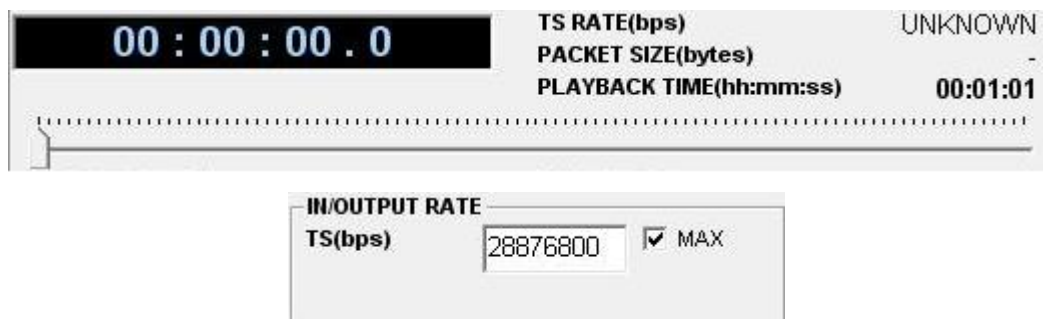
C、選擇使用 PCI 模組



D、選擇使用 Modulation



E、選擇使用 TS 之位元率及播放時間



F、調變參數設定區

The screenshot shows the TPG0590 V6.10.6 software interface. The window title is "TPG0590 V6.10.6". At the top, there is a large digital display showing "00 : 00 : 00 . 0". To the right of this display, the following information is shown: "TS RATE(bps) UNKNOWN", "PACKET SIZE(bytes) -", and "PLAYBACK TIME(hh:mm:ss) 00:01:01". A "BSK" logo is visible in the top right corner.

The interface is divided into several sections:

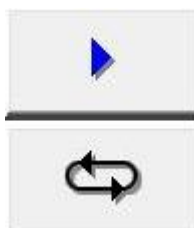
- IN/OUTPUT RATE:** TS(bps) is set to 28876800 with a checked "MAX" option.
- RF/IF OUTPUT:** RF is set to MHz, CHANNEL to 666, IF (Hz) to 36000000, RF LEVEL (-62.5 ~ -31 dBm) to -31, and C/N (0.0 ~ 50.0 dB) to 0.
- MODULATOR PARAMETERS (highlighted in red):**
 - TVB590/390 PCI 2 (selected) and DTMB (selected)
 - FRAME HEADER P/M: ROTATED
 - CONSTELLATION: 64QAM
 - CODE RATE: 0.8
 - PILOT INSERTION: DISABLED
 - INTERLEAVE(B/M): 52/240
 - FRAME HEADER: PN945
 - CARRIER NUMBER: 3780(DTMB)
- PLAY LIST:** A list box for managing the playback list.
- DISK FREE (hh:mm:ss):** 05:19:45 with a folder icon.
- CONTROL PANEL:** Includes buttons for "INPUT SOURCE [FILE]", "ADD LIST", "DELETE LIST", and "RECORD STREAM".
- TAB BAR:** At the bottom, there are tabs for "IN/OUTPUT RATE", "RF/IF OUTPUT", "MODULATOR", "LOOP", "TOOL", and "SI/PID".

G、訊號頻率及強度調整

This is a close-up view of the "RF/IF OUTPUT" section of the software interface. It contains the following controls:

- RF:** A dropdown menu set to "MHz" and a text input field set to "666".
- IF (Hz):** A dropdown menu set to "36000000".
- RF LEVEL (-62.5 ~ -31 dBm):** A text input field set to "-31".
- C/N (0.0 ~ 50.0 dB):** A text input field set to "0".

H、撥放檔案及循環播放



I、選擇輸入源

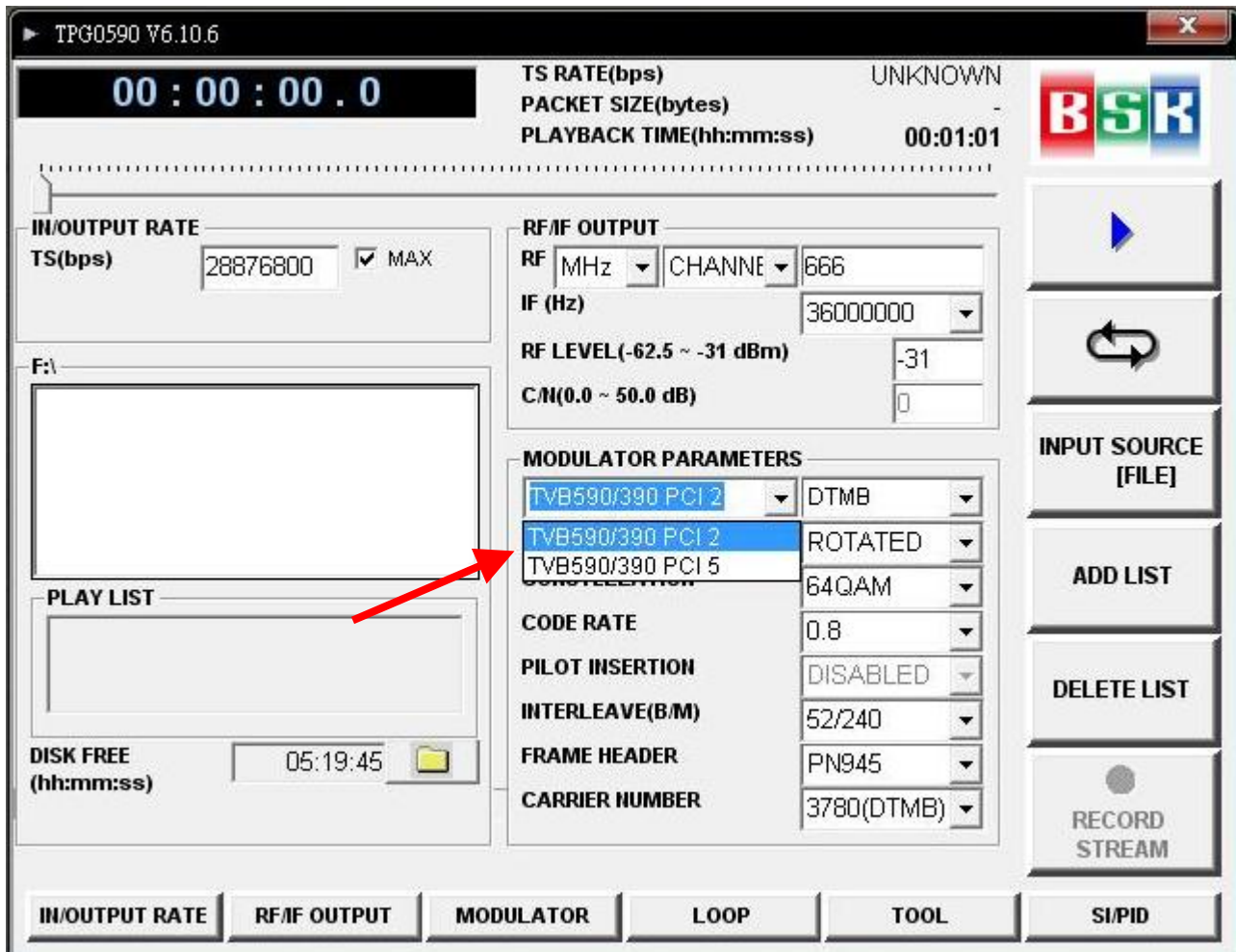


J、錄製 TS 檔案

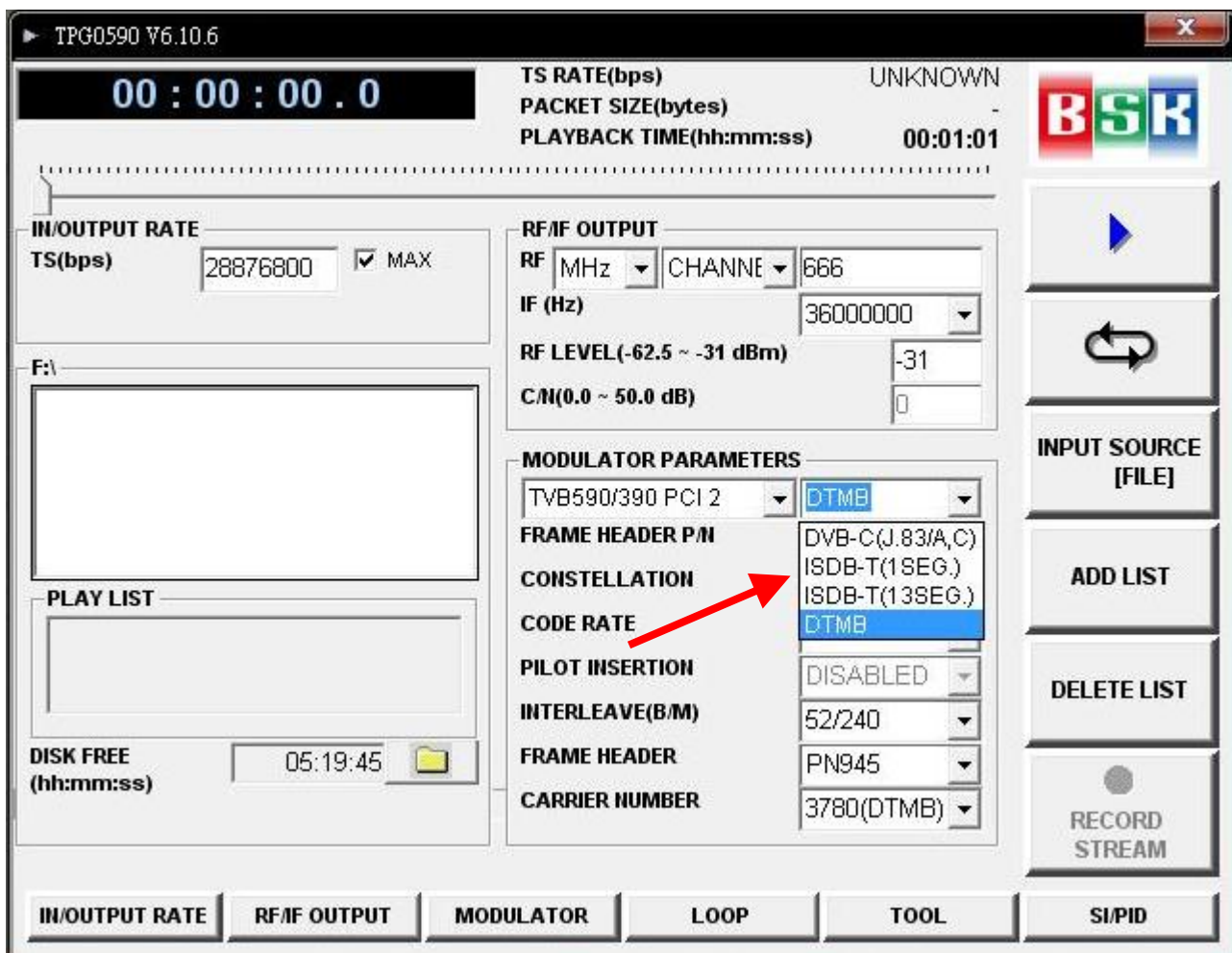


2.2：操作流程介紹

A、選擇欲使用之 PCI 模組



B、選擇欲使用之 Modulation



DVB-T ----- 歐洲數位電視地上波

DVB-C ----- 歐洲數位電視有線電視

ATSC ----- 美國數位電視地上波

QAM-B----- 美國數位電視有線電視

QAM-C----- 日本數位電視有線電視

T-DMB ----- 韓國數位移動電視

QPSK ----- 數位衛星電視

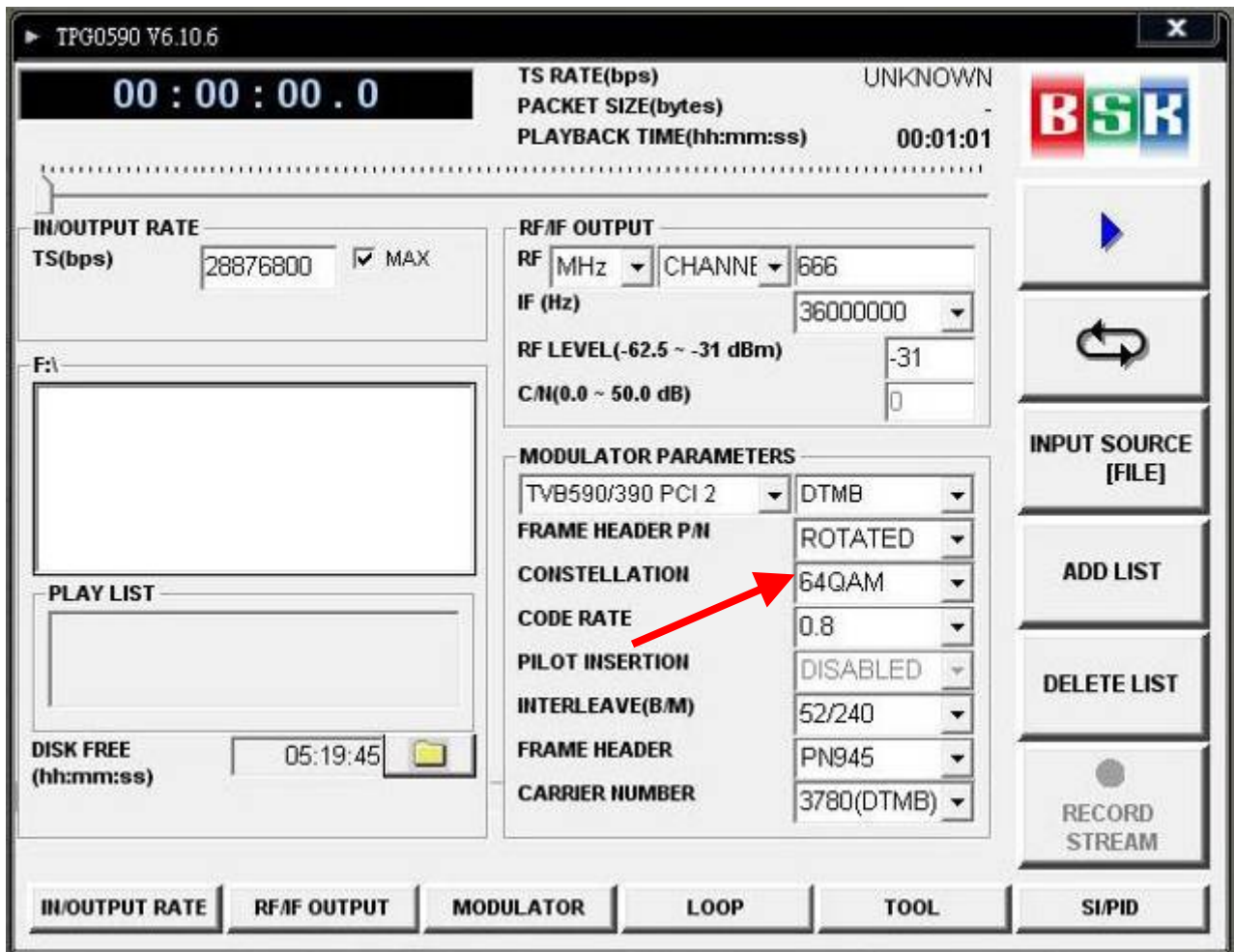
DVB-S2----- 新一代數位衛星電視

B、選擇相對應規格之 TS 檔案

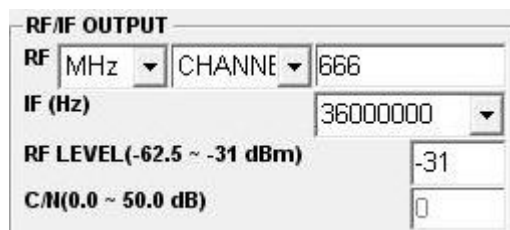
The screenshot displays the TPG0590 V6.10.6 software interface. At the top, the window title is "TPG0590 V6.10.6 [D:\DTMB\CREDIX_DTMB_786_20Mhz_6TVchannel.ts]". The main display area is divided into several sections:

- Top Status Bar:** Shows a timer at "00:00:05.6", "TS RATE(bps)" at 21657597, "PACKET SIZE(bytes)" at 188, and "PLAYBACK TIME(hh:mm:ss)" at 00:09:27. A BSK logo is visible on the right.
- IN/OUTPUT RATE:** "TS(bps)" is set to 28876800 with a "MAX" checkbox checked.
- D:\DTMB:** A file list shows "666ts.TS", "china.ts", "CREDIX_DTMB_786_20Mhz_6TVch" (highlighted), "DTMB.ts", "DTMB_786_20Mhz_6TVchannel.ts", and "HDGundam00_01A.ts".
- PLAY LIST:** Contains "CREDIX_DTMB_786_20Mhz_6TVche". A red arrow points to this list.
- DISK FREE:** Shows "11:36:05" and a folder icon.
- RF/IF OUTPUT:** Includes "RF" (MHz), "CHANNE" (666), "IF (Hz)" (36000000), "RF LEVEL(-62.5 ~ -31 dBm)" (-31), and "C/N(0.0 ~ 50.0 dB)" (0).
- MODULATOR PARAMETERS:** Includes "TVB590/390 PCI 2", "DTMB", "FRAME HEADER P/N" (ROTATED), "CONSTELLATION" (64QAM), "CODE RATE" (0.8), "PILOT INSERTION" (DISABLED), "INTERLEAVE(B/M)" (52/240), "FRAME HEADER" (PN945), and "CARRIER NUMBER" (3780(DTMB)).
- Right Panel:** Features a blue square button, a refresh button labeled "[0]", "INPUT SOURCE [FILE]", "ADD LIST", "DELETE LIST", and "RECORD STREAM".
- Bottom Panel:** Contains tabs for "IN/OUTPUT RATE", "RF/IF OUTPUT", "MODULATOR", "LOOP", "TOOL", and "SI/PID".

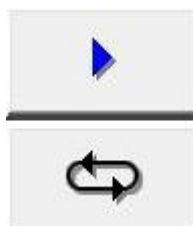
C、選擇調變參數之設定



D、調整使用訊號頻率及訊號強度



E、選擇是否循環播放及開始播放



3. 注意事項:

- 3.1 : 欲使用歐規 TS 請至 D:/TS/DVB 目錄底下使用
- 3.2 : 欲使用美規 TS 請至 D:/TS/ATSC 目錄底下使用
- 3.3 : 欲使用陸規 TS 請至 D:/TS/DTMB 目錄底下使用
- 3.4 : 欲使用日規 TS 請至 D:/TS/ISDB 目錄底下使用
- 3.4 : 選擇與規格不符合之 TS 檔案會產生無法正常解調之情況
- 3.5 : 訊號強度一般設定為 -30 dBm