

Broadcast Operations – Product Family

PSIScanner V1.5

PSIScanner V1.5

- ▲ Runs on a Win2K PC that has a TechnoTrend TTBudget Card (PCI card), using which it receives DVB transport streams from a so-called L-Band Multi-Switch (controlled by 13V/18V and 0Hz/22kHz)
- ▲ Decodes (incl. CRC_32 check) all of the following **MPEG-2/DVB/MHP*** (P)SI sub-tables (incl. repetition rate and bit rate):
 - AIT (Application Information Table)
 - BAT (Bouquet Association Table)
 - CAT (Conditional Access Table)
 - EIT P/F Actual/Other (Event Information Table Present/Following)
 - EIT Schedule 0.....15 Actual/Other
 - NIT Actual/Other (Network Information Table)
 - PAT (Program Association Table)
 - PMT (Program Map Table)
 - RST (Running Status Table)
 - SDT Actual/Other (Service Description Table)
 - TDT (Time and Date Table)
 - TOT (Time Offset Table)

* Ref: MPEG-2 ISO/IEC 13818-1
DVB ETSI EN 300 468 V1.5.1
MHP Spec 1.1.2



TTBudget



TTBudget_CI



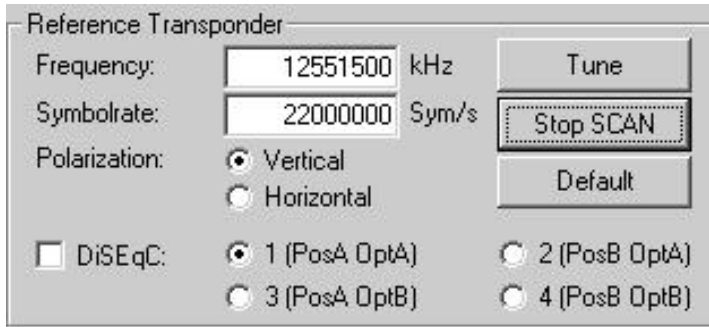
TTBudget Small



L-Band Multi-Switch

PSIScanner

PSIScanner V1.5 Features

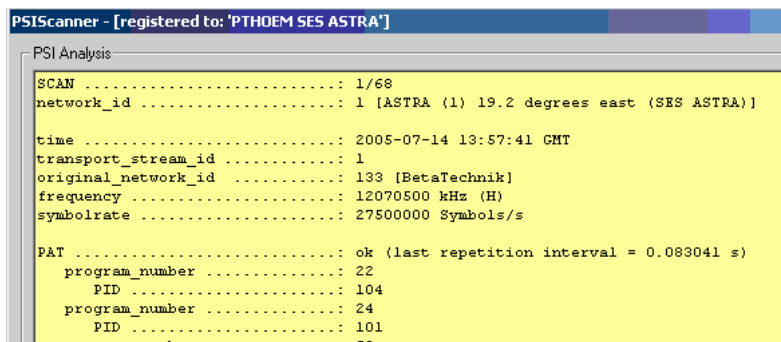


▲ User-friendly Graphical User Interface (GUI)

Easy to specify the frequency, symbol rate and polarization for the reference transponder whose NIT will be used to get the list of all transponders in the network.

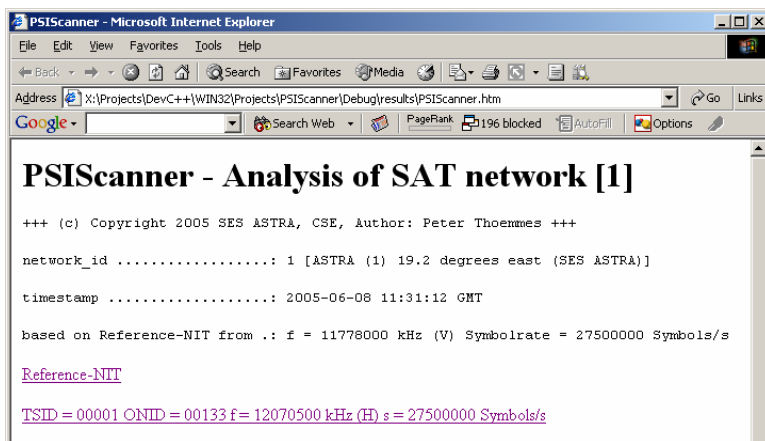
▲ Simple push-button start to begin scan of transport streams

Clicking on the Start SCAN button initiates an automatic scan of all of the transponders listed in the Reference Transponder NIT.



▲ Freeze button enables you to freeze the window content during the analysis

▲ Scan results output to HTML file, readable in any browser



▲ Time for a full scan of a single network depends upon:

- Repetition rate of the TDT (Time and Date Table), the table with lowest repetition rate (see ETSI ETR 211)

PSIScanner waits for max. of 40 secs. for each TDT, equals a max. of 80 secs. for two TDTs, needed to determine repetition rate. In practice, TDT may be sent every five seconds, giving minimum waiting time of 10 secs. to determine repetition rate.

- Number of transponders

So, for 60 transponders, full scan min. time is $60 \times 10 = 10$ mins. and full scan maximum time is 60×80 secs. = 80 mins.

Minimum Requirements for PC

- Pentium III 600MHz CPU
- 20 GB Disk / 256 MB RAM
- Windows 2000/XP
- TTBudget card

▲ Decoding of (P)SI tables includes these descriptors:

AC_3_descriptor
 application_descriptor
 application_icon_descriptor
 application_name_descriptor
 application_signalling_descriptor
 application_storage_descriptor
 bouquet_name_descriptor
 CA_descriptor
 CA_identifier_descriptor
 content_descriptor
 country_availability_descriptor
 data_broadcast_descriptor
 data_broadcast_id_descriptor
 delegated_application_descriptor
 dll_location_descriptor
 dvb_html_application_boundary_descriptor
 dvb_html_application_descriptor
 dvb_html_application_location_descriptor
 dvb_j_application_descriptor
 dvb_j_application_location_descriptor
 extended_event_descriptor
 external_application_authorization_descriptor
 frequency_list_descriptor
 ip_signalling_descriptor
 ISO_639_language_descriptor
 linkage_descriptor
 local_time_offset_descriptor
 logon_initialize_descriptor
 mosaic_descriptor
 multilingual_bouquet_name_descriptor
 multilingual_component_descriptor
 multilingual_network_name_descriptor
 multilingual_service_name_descriptor
 network_name_descriptor
 NVOD_reference_descriptor
 parental_rating_descriptor
 PDC_descriptor
 plugin_application_descriptor
 prefetch_descriptor
 private_data_specifier_descriptor
 S2_satellite_delivery_system_descriptor
 satellite_delivery_system_descriptor
 service_descriptor
 service_identifier_descriptor
 service_list_descriptor
 service_move_descriptor
 short_event_descriptor
 short_smoothing_buffer_descriptor
 stream_identifier_descriptor
 stuffing_descriptor
 subtitling_descriptor
 telephone_descriptor
 teletext_descriptor
 terrestrial_delivery_system_descriptor
 time_shifted_event_descriptor
 time_shifted_service_descriptor
 transport_protocol_descriptor

