

ASI & MIP ANALYZER BROADCAST INSTALLATION TOOL



RO.VE.R, thanks to long experience in the portable field instruments sector, and its special attention to the needs of professional users in the broadcast world, has developed this unique measuring portable field tool.

The BIT-1 is a portable, light weight and battery operated Broadcast Installation tool. With this new product engineers can now simply verify the quality of 3 important signals present in almost any DVB-T/T2 transmitting site and key digital television facility: ASI, 10 MHz and 1PPS, and perform MIP analysis.

The BIT-1 provides an USB 2.0 port that can be used to interface the BIT-1 to a computer for recording, advanced Transport Stream Analysis and audio/video decoding. In order to maintain the cost of this field tool at an acceptable level, we provide the driver for a scalable and well known product: TSreader. The driver is available free of charge for registered users from our web site.

Thanks to its ergonomic design, a bright intuitive display and an essential User Interface the Bit-1 is very simple to use even for non experienced engineers. It has five different direct operating modes: Auto, ASI, 10MHz, 1pps and MIP, to ensure that operators and maintenance users have immediate full control of the quality of these signals.

The USB interface combined with the TSreader program, gives the BT-1 additional value, giving advanced users the possibility of connecting this tool to a PC for deeper TS analysis, debugging and/or Audio video decoding. For SW features and analysis/decoding details please refer to the TSreader web page.

PARAMETER	
Operating Modes	
AUTO MODE	
<ul style="list-style-type: none"> Input Signal Type indication: ASI, 10 MHz or 1pps The p-p Amplitude of the signal through a graphical indicator 	
ASI MODE	
Indicates the following values / measures:	<ul style="list-style-type: none"> Total Bit rate Peak to Peak Signal Level in dBV MIP detection (presence indication)
<ul style="list-style-type: none"> Ts ID Network ID Network Name 	
MIP MODE	
Indicates the following values / measures:	<ul style="list-style-type: none"> structure_synchronization_time_stamp MIP CRC error MIP position indicator error Periodic MIP error periodicity_MIP_Pointer_not_constant Maximum timing deviation error Bitrate not consistent error
<ul style="list-style-type: none"> SFN Synchronization errors (ref. TR 101290 par. 9.20). Megaframe with more than one MIP error Megaframe without MIP error MIP TS Header structure error Non consistent field length error Max Delay out of range error 	
10MHz MODE	
Indicates the following values / measures:	<ul style="list-style-type: none"> Signal presence (frequency locked in range of 10.000 MHz +/- 500Hz) Signal amplitude in dBV
1pps MODE	
Indicates the following values / measures: Signal presence	
General Characteristics	
Display	Backlight LCD
Control	Keyboard
Input Connector	BNC Female 75 Ohm
USB Connector	Type B
Battery	NiMH, Battery autonomy : up to 8 hours, Full-charge time: 3 hours
Power Connector	3mm
External Power adapter	In: 100-240V , out: 12V 1A