

DT850 DIGITAL TERRESTRIAL PVR RECEIVER



FEATURES

Easy Menu Installation

Digital Tuner with Loop-through out (or RF out)

MPEG-2 Main Profile at Main Level (MP@ML)

RS232C Port for Updating Control Software (PC to STB)

Multi-language Function (Menu Audio)

Double SCART Connectors

OSD: 256 Palette Colors

Games

EPG (weekly) for Onscreen Channel Information

Teletext Function

Front Panel Buttons & Full Function IR Remote Controller User Interface

Recall Function

LED Real Time Clock Display

Disposes of Favorite Channel Lists

Channel and Receiver Lock

1000 Channel Memory

NTSC/PAL Identification and Converting Automatically and Manually

PVR Function

Screen Format: 4:3, 16:9

Frequency Range: 47MHz to 862MHz (VHF~UHF)

Bandwidth: 8MHz (or 7MHz or 6MHz)

Wave Form: COFDM

SPECIFICATIONS

Tuner & Channel	Type	IEC 169-2 Female
	Frequency Range	47MHz to 862MHz (VHF~UHF)
	Bandwidth	8MHz or 7MHz or 6MHz
	Input Impedance	75 Ohm Unbalanced
	Signal Level	-78 ~ -20dBmV
Modulation	Modulation	COFDM

	Constellation	QPSK, 16QAM, 64QAM
	Transmission Mode	2K , 8K
	Guard Interval	1/4, 1/8, 1/16, 1/32
	Code Rate	1/2, 2/3, 3/4, 5/6, 7/8
System & Memory	Main Processor	STi5518
	Flash Memory	2Mbytes
	SDRAM	8Mbytes
	Hard Disk	40G/80G
	Channel Memory	Up to1000 channels
	Multi-Language Menu	English/Italian/Germany/Spanish/Chinese
	Front	7 Keys, 4-Digit 7-Segment Display
	Remote Controller	42 Keys, IR Remote Control
MPEG Transport Stream & A/V Decoding	Transport Stream	MPEG-2 ISO/IEC 13818
	Profile Level	ISO/IEC 13818-2 MPEG-2 MP@ML
	Input Rate	Max.60Mbits/S
	Aspect Ratio	4:3 , 16:9
	Frame Rate	PAL: 25Hz; NTSC: 30Hz
	Video Resolution	720 x 576(PAL), 720 x 480(NTSC)
	Teletext	DVB-TXT ETSI/EN 300 472
	Audio Decoding	MPEG/MusiCam Layer 1 & 11, MP3, AC3
	Frequency Response	20Hz ~ 20KHz, <+/-2dB 60Hz ~ 18KHz <+/-0.5dB
	Sampling Rate	23,44.1,48KHz
	Recorder Time	40G:20Hours; 80G:40Hours
A/V & Data In/Out	TV Scart Output	RGB, CVBS, L, R Output with Volume Control
	VCR Scart In/Out(Optional)	CVBS, L, R In CVBS, L, R Out
	RCA Output	CVBS, L, R Output(yellow, White, Red Jack) with Volume Control
	S/PDIF	Digital Audio Output
	Data Interface	RS-232, Bit Rate: 115200baud Connector : 9-Pin D-Sub Male Type

	S-Video	S - Video Output
RF-Modulator	RF-Connector	75W IEC 169-2, Male/Female
	Frequency	470 ~ 860MHz
	Output Channel	CH 21 ~ 69
	Audio Output	Mono with Volume Control
	Preset Channel	CH 38(or TBD), Software Changeable by Menu Screen
Power Supply	Input Voltage	AC 90~240, 50Hz~60Hz
	Power Consumption	Max. 20W
	Stand-by Power	<=5W
	Protection	Separate Internal Fuse The Input Shall have the Lighting Protection
Physical Specification	Size(WxHxD)	380 60 275mm
	Weight	4.0kg
Environmental Conditions	Operating Temperature	0 ~ 40 ° C
	Storage Temperature	-30 ° C ~ 80 ° C
	Operating Humidity Range	10~85% RH, Non-Condensing
	Storage Humidity Range	5~90% RH, Non-Condensing

DT810PVR TWIN-TUNER PERSONAL VEDIO RECORDER



MAIN FEATURES

<CI Part>

Embedded two CI (Support Viaccess/ Irdeto/ Nagravision/ Crypto Works/ alphaCrypt/ Aston Crypt and more)

<Digital Part>

Over 4900 channel memory capacity for over 64 pre-programmed satellites

4 separate Favorite lists for TV and Radio programs

Games (Tetris, Socoban & Snake)

Multi lingual support on screen Menu

Easy to use 256 colors graphic menu with PIG (Picture In Graphic), adjustable colors, transparency and brightness

Full Electronic Program Guide for on screen program information

Automatic channel scan options

Edit functions for TV or Radio program name, Favorite Group name, PID and Transponder information

Power on function with last viewed or user defined channel

Software update and Program list edit functions via PC with RS 232 connector

Parental lock functions selectable per channel

Teletext via TV (VBI)

Full DVB subtitling support

Advanced timer and calendar functions

Full menu access by Remote Control Unit or by 7 front panel buttons

User friendly Remote Control Unit with 4 colored function buttons

Front Panel LED display

DisEqC 1.0, 1.2, USALS

Satcodx Data Format Supported

OTA Function

SPECIFICATIONS

Demodulator	Demodulation	2-QPSK
	Input Symbol Rate	2 to 45 Ms/s
	SCPC and MCPC signals	from C/KU band satellites
	SCPC and MCPC	signals from C/ KU band satellites
Video decoder	Profile Rate	MPEG-2 Main Profile @ Main Level
	Input Rate Max	60Mbit/s
	Video Resolution	720 x 576 (PAL), 720 x 480 (NTSC)
	Video output level	1.0Vp_p, 75 Ohm
Audio decoder	Audio Decoding	MPEG/MusiCam layer I & II, MP3, AC 3

	Audio Mode	Stereo, Dual channel, Joint stereo, Mono
Tuner	Input Frequency Range	950MHz to 2150MHz
	RF input Signal Level	-25 to -65 dBm
	LNB Power	13.5 / 18.5Vdc (+/- 5%), 500 mA Max
	Overload	Protected
	DiSEqC Version	1.0 , 1.2 , USALS
CI slot:	2 Slots type	I / II PCMCIA
	Standard DVB Common Interface compliant baud rate	(Compatible Viaccess, Nagravision, Seca, Irdeto, Cryptoworks, Betacrypt, Conax, etc.)115Kbps
PVR(Personal Video Recorder)	HDD	Seagate (40/80/120G)
	Recorder/Play	Simultaneous recording of two channels and viewing third channel live (of different transponders)
	Content Protection	DES encryption/decryption
USB Interface	USB2.0 Device	High and full speed
	Application Function	Software upgrade supported Files transfer between STB hard disk and PC hard disk supported
RF Modulator	Output channels	PLL CH 21 - 69
	TV Standard	NTSC-M, PAL G/I/K
Remote Control	Number of Keys	42 Keys
	Batteries 2 Size	AAA
Summary of connectors	LNB IF	Input 1 Female F Type, IEC169-24
	LNB IF loop through output	1 Female F Type, IEC169-24
	Scart connectors	TV Scart: RGB, CVBS, Audio L&R output with Volume Control. VCR Scart: CVBS, Audio L&R output. RGB, CVBS, Audio L&R in

	RCA Jack	CVBS Out, Audio L&R Outputs, 0/12V DC 150mA Out
	Serial Port	RS-232
	Connector	9-pin D-sub type
	RF Connector	75W
	IEC169-2	Male/Female
System and Memory	Main Processor	STi5514
	Flash Memory	2 or 4 Mbytes
	SDRAM	24 Mbytes
	EEPROM	64 Kbits (Option)
General Data	Operating Temperature	0 to 40
	Storage Temperature	-10 to +50
	Input Voltage Range	90 VAC to 240 VAC (SMPS)
	Power Consumption	Max 40W
	Weight	4 Kg
	Size (W*H*D)	380mm*65mm*280mm

DT800PVR DIGITAL COMMON INTERFACE SATELLITE RECEIVER WITH 40G HDD



MAIN FEATURES

- Up to 30 hours of digital video recording
- Interrupt your live program and restart watching at the same scene (time shifting function)
- Watch your favorite movie while recording another
- Compliant with all DVB encryption systems
- Digital audio optical output (SPDIF)
- Easy to use recording and play functions
- Replay mode in 3 different speeds

40 Gbyte hard disk drive (up to 30 hours of recording)
 Time shifting function (Pause of live signal)
 Extended Program Sorting and Grouping functions
 4 separate Favorite lists for TV and Radio programs
 Dual common Interface slots for Viaccess, Nagravision, Seca, Irdeto,
 Cryptoworks, Betacrypt, Conax
 Multi lingual support on screen Menu
 Automatic future software upgrades via satellite
 Software update and Program list edit functions via PC with RS 232 connector
 On Screen Games
 Over 4000 channel memory capacity for over 64 pre-programmed satellites
 Easy to use 256 colors graphic menu with PIG (Picture In Graphic)
 Full Electronic Program Guide for on screen program information
 Automatic channel scan options
 Edit functions for TV and Radio program name, Favorite Group name
 Power on function with last viewed or user defined channel
 Parental lock functions selectable per channel
 Teletext via TV (VBI)
 Full DVB subtitling support
 Advanced timer and calendar functions
 Full menu access by Remote Control Unit or by 7 front panel buttons

SPECIFICATIONS

Input Connector	F-type, IEC 169-24, Female
Frequency Range	950MHz to 2150MHz
Input Impedance	75ohm unbalanced
Signal Level	-25 to -65dBm
IF Bandwidth	55MHz
LNB Power	Vertical +13V / Horizontal: +18V
LNB Current:	Max 500 mA
Polarization	3V/18V or Skew Control
22kHz Tone Frequency	22+4kHz / Amplitude: 0.6 ± 0.2V
DiSEqC Control	Version 1.0 or 1.2 Compatible
Demodulation	QPSK
Input Symbol Rate	2-45 Ms/s
FEC	1/2, 2/3, 3/4, 5/6, and 7/8 with
Constraint Length	K-7
System & Memory	
Main Processor	STi5518 (ST-LOGIC)
Flash Memory	2 Mbytes
SDRAM	86 Mbytes
EEPROM	64Kbits

Hard Disk Drive	40 Gbytes
Channel Memory	Over 4000 Channels
Multi-Satellite	Up to 64
Multi-Language:	
Menu in	English/German/French/Spanish/Italian/ Slavic/Russian/Swedish/Dutch/Turkish
Available on our website are:	Portugeese/Greek/Romanian/Hungarian/ Chech/Polish and Chinese.
Front Panel	7 Keys
Remote Control	31 keys, IR Remote Control
Specifications	MPEG Transport Stream & A/V Decoding
Transport Stream	MPEG-2 ISO/IEC 13818 Transport Stream Specification
PrOffie Level	MPEG-2 MP@ML
Input Rate	Max.60Mbit/s
Aspect Ratio	4:3, 16:9
Frame Rate	25Hz for PAL, 30Hz for NTSC
Video Resolution	720x576(PAL), 720x480(NTSC)
Teletext	via OSD
Audio Decoding	MPEG/MusiCam Layer I& II, MP3, AC3
Audio Mode	Single channel/Dual channel Joint stereo/ Stereo
Frequency Response	20-20kHz, <+/-2dB / 60Hz - 18kHz <+/- 0.5dB
Sampling Rate	32, 44.1, 48kHz
4. A/V & Data In/Out	
TV Scart Output	RGB, CVBS, L, R Output with Volume Control
VCR Scart In/Out	CVBS, L, R In / CVBS, L, R Out
0V/12V	RCA Jack Output (Black Jack),
Max Current	150mA
Data Interface	RS-232, Bit Rate: 115200baud
Connector	9-pin D-sub type
Digital Audio Output	(S/PDIF)
5. RF-Modulator	
R F - Connector	75W IEC 169-2, Male/Female
Frequency	470MHz to 860MHz
Output Channel	CH 21-69 for the Demodulator
TV Standard	PAL G/I/K Selectable by Menu Setting
Audio Output	Mono with Volume Control

Preset Channel CH 38. Software changeable by Menu screen

6. Power Supply

Input Voltage AC90 to 260V, 50Hz/60Hz

Type PWM Regulator

Power Consumption Max. 40W

Protection Separate Internal Fuse

7. Physical Specification

Size (W x H x D) 380 x 55 x 235 mm

Excluding the foot. Foot height is 6mm

Weight 2.0 Kg

8. Environmental Condition

Operating Temperature 0 - 40

Storage Temperature -10 - + 50

Operating Humidity Range 10 - 85% RH, Non-condensing

Storage Humidity Range 5 - 90% RH, Non-condensing