

# relook 510 Series

**Personal Video Recorder with Linux and Built in MPEG 4 HD and MPEG 2 HD**

**Capable to two room service with DGS' Client**

**Satellite/Terrestrial/Satellite+Terrestrial/Cable**

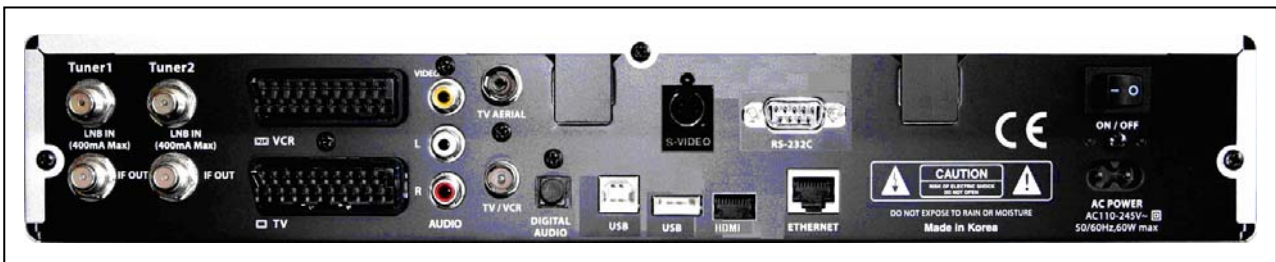
## Twin Tuner PVR + Ethernet + Linux OS + Client

DGStation is now developing this highly advanced product for the future trend of digital market. The product can support not only basic function of PVR but also Internet Protocol based interactive broadcasting service including NVOD and VOD services, Home shopping, Home banking, email etc. 2 different channels at 2 room at the same time can be viewed by different users. We are focusing on both open and closed market in Europe, Middle East, and North America.

## Front



## Rear



## DGS' Client



## Features

- Linux OS : Kernel version 2.6.9
  - Capability for Porting Various User Applications
- *MPEG-2 digital and fully DVB-S, DVB-S2, DVB-T compliant*
- Two tuners : One Channel Watching and Two Channel Recording
- Two Channel Recording and One File Playback Simultaneously or watching one another channel
- Multi-Time Shifting Function with a Live Channel
- Bookmark Function with commercial skip Supported
- Recoding capacity : for example, 44 hours for 4Mbps stream with 80GB HDD
- Playback of the selected region repeatedly
- *Photo Album Function*
- *USB 2.0 supported for HDD, USB memory stick, Keyboard*
- USB 1.0 supported for PC
- Network Interface Supported( high speed Ethernet)
- VFD Display : Capability for display of various information
- SCPC and MCPC receivable from C/Ku-band satellites
- 10,000 channels TV & radio programmable
- Channel list editing
- Favorite channel list editing
- True-color On-Screen Display (OSD)
- *Full Picture In Graphic (PIG) function*
- Electronic Program Guide (EPG) for on screen channel information
- Subtitle & Teletext Subtitle supported
- Parental lock facility by channel and program event
- *supported Real PIP with two MPEG 2 Decoder*
- *Can be supported to IP advertising by MPEG 4 streaming*
- *Supported VOD through the IP depends on availability of supports on operator*
- *Two room service with DGS's Client*

## Specifications of relook 510S

Part	Type	Specifications	
CPU	Type	CPU core 300MHz	
	Data/Instruction Cache	32KB/16KB	
Satellite Tuner(DVB-S2) & Channel	Input Connector	2 x IEC 169-24 Female(F-type)	
	Input Signal Level	-65 to -25dBm	
	Frequency Range	950MHz to 2150MHz	
	LNB Control	Vertical	13V(400mA Max)
		Horizontal	18V(400mA Max)
	Waveform	QPSK, 8PSK(C/KU band compatible)	
	22KHz Tone	Frequency	22±4KHz
		Amplitude	0.6±0.2V
	Symbol Rate	QPSK( up to 45MS/s), DVB-S2 :QPSK(up to 36MS/S), 8PSK(up to 30MS/s)	
DiSEqC Control	Version 1.0/1.1/1.2/USALS Compatible		
MPEG Transport Stream & A/V Decoding	Transport Stream	ISO/IEC 13818-1 Specification	
	Profile & Level	MPEG-2 MP@ML, MP@HL, MPEG4 <a href="#">AP@HL/H.264</a> , WMV9, WMA 9 and Pro	
	Input TS Data Rate	64Mbit/S max.	
	Aspect Ratio	4:3, 16:9 with pan/scan vector	
	Video Resolution	720 x 576(PAL), 720 x 480(NTSC), 1080i, 720P, 480i, 480P	
	Audio Decoding	MPEG-1 Audio Layer 1,2, Musicam	
	Audio Mode	Stereo, Dual Channel, Joint Stereo, Mono	
	Sample Rate	32, 44.1, and 48KHz	
Memory	Flash Memory	8MB + (expandable and user's option)	
	DDR SDRAM	160MB (32MB+128MB)	
Storage	HDD	Serial ATA 80/120/160/200GB and over (User Selectable)	
	Digital interface for HDTV	HDMI	
	SCART I/F	VCR & TV(2 Ports)	
	CVBS & Audio R/L Out	RCA(3 Ports)	
	S-video	Din	
	RF modulator	470-860MHz(IEC169-2 Female/Male)	
	Digital Audio	S/PDIF via Optical	
Data In/Out	USB Host Interface	USB A-Type Female (USB 2.0)	
	USB Device Interface	USB B-Type Female (USB 1.0)	
	RS232C	9 Pin D-Sub	
Network	Ethernet	RJ-45( 100BT )	
Conditional Access	Common Interface	2 PCMCIA-Cards Slots	
	Smartcard Interface	2 Slots	
Front Display	VFD	Vacuum Fluorescent Display as Dot matrix style	
Power Supply	Input Voltage	AC110-245V, 50/60Hz	
	Type	Linear PWM	
	Power Consumption	50W	
	Protection	- Separate Internal Fuse and Chassis	
Physical Specification	Size (W x H x D)	375mm x 60mm x 280 mm	
	Weight	3.5Kg	
Environment	Operating Temperature	5 - 55°C	
	Storage Temperature	-40°C ~ +65°C	

Specifications of relook 510T

Part	Type	Specifications
Terrestrial Tuner (Twin) & Channel	Input Connector	2 x IEC169-2 female
	Loop through Connector	2 x IEC169-2 male
	Frequency Range	50MHz to 870MHz
	Loop through Out Impedance	75 ohms nominal
	Band Width	7/8 MHz
OFDM Modulation	Carrier Mode	2k & 8k hierachical/non-hierachical mode
	Constellation	Auto(QPSK, 16/64 QAM)
	Mode Rate	Auto(1/2, 2/3, 3/4, 5/6 and 7/8)
	Guard Interval	Auto(1/4, 1/8, 1/16 and 1/32)
	Transport Stream	ISO/IEC 13818-1 Specification

Specifications of relook 510TS

Part	Type	Specifications	
Satellite Tuner(DVB-S2) & Channel	Input Connector	IEC 169-24 Female	
	Input Signal Level	-65 to -25dBm	
	Frequency Range	950MHz to 2150MHz	
	LNB Control	Vertical	13V(400mA Max)
		Horizontal	18V(400mA Max)
	Waveform	QPSK, 8PSK(C/KU band compatible)	
	22KHz Tone	Frequency	22±4KHz
		Amplitude	0.6±0.2V
	Symbol Rate	QPSK( up to 45MS/s), DVB-S2 : QPSK(up to 36MS/S), 8PSK(up to 30MS/s)	
DISeqC Control	Version 1.0/1.1/1.2/USALS Compatible		
Terrestrial Tuner & Channel	Input Connector	IEC169-2 female	
	Loop through Connector	IEC169-2 male	
	Frequency Range	50MHz to 870MHz	
	Loop through Out Impedance	75 ohms nominal	
	Band Width	7/8 MHz	
OFDM Modulation	Carrier Mode	2k & 8k hierachical/non-hierachical mode	
	Constellation	Auto(QPSK, 16/64 QAM)	
	Mode Rate	Auto(1/2, 2/3, 3/4, 5/6 and 7/8)	
	Guard Interval	Auto(1/4, 1/8, 1/16 and 1/32)	
	Transport Stream	ISO/IEC 13818-1 Specification	

Specifications of relook 510C

Cable Tuner & QAM	Input Connector	IEC169-2 female
	Loop through Connector	IEC169-2 male
	Frequency Range	47MHz to 862MHz
	Loop through Out Impedance	75 ohms nominal
	IF Bandwidth	8MHz
	QAM mode	16, 32, 64,128,256QAM
	Symbol rate	0.87Mbaud~ 7Mbaud Max.

