

Time Base Corrector / Frame Synchronizer

TBC100 is a broadband controller with time base correcting and frame synchronizing functions, and can provide more accurate and convenient solutions to the time base error created by non-standard television signals. With the help of this product, the problems such as video image distortion, dithering, asynchronies, instability, logo superposition will be no longer possible, and the signals can be Gen-Lock and switched without jitter. What is more, there will be no black burst when the signals were interrupted. It can be widely used in the television post-production, satellite TV receivers, live broadcasting, synchronous video broadcast systems and so on. Users may enjoy its full functionalities with stable performance and convenient updating & maintenance.

- Introduce digital adaptive comb.
- Special circuit design, search VTR image with high speed.
- External Gen-lock.
- Drop vertical blanking interval teletext information.
- With function of automatic gain controlling.
- Adjustable video brightness, contrast, chroma, horizontal position, H phase, SC phase.
- Support power off bypass.
- With touching switch.



Video Index

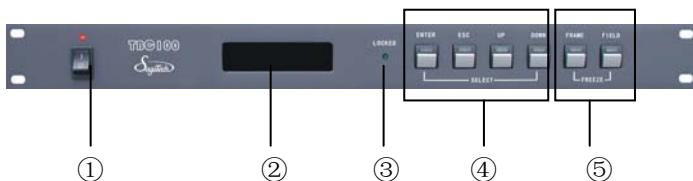
Input Signal	PAL composite video, 1Vp-p, 75 Ω BNC
Output signal	PAL composite video, 1Vp-p, 75 Ω BNC
Sample Frequency	13.5MHz
Video Processing	4:2:2
Signal to Noise Ratio	> 58 dB (weighted)
Differential Phase	< 0.6°
Differential Gain	< 1.3%
K Factor (2T pulse)	< 1.0%

Physical Features & Environmental Req.

Input Connector	4 Y/C & BNC
Output Connector	4 Y/C & BNC
AC Input	220V/50Hz
Power Consumption	20W
Operating Temperature	0~40°C (32~104 °F)
Moisture	5~95% (non condensing)
Dimension (W×H×D)	427mm × 44mm × 325mm
Weight	4 Kg



Front Panel Description



① Power & Power Light

② VFD display screen

Display the current status of the machine.

③ LOCKED: Indicates the current GEN-LOCK status

Light on: External Gen-lock signal input.

Light off: Non external Gen-lock signal input.

④ Function Setup Button (SELECT)

ENTER Confirm and enter into next steps.

ESC Cancel or correct the current command.

UP Add or step to the next command line.

DOWN Subtract or step to the previous command line.

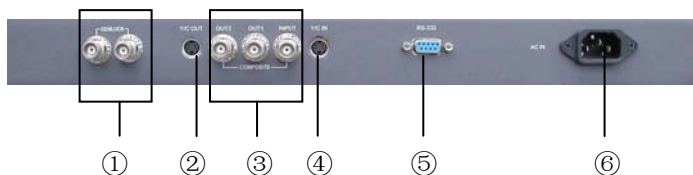
⑤ Special Functional Button (FREEZE)

FRAME Output freeze frame.

FIELD Output freeze field.

FRAME and FIELD are interlocking keys.

Back Panel Description



① Gen-Lock Interface for external Gen-lock input.

② Y/C OUT S-Video output.

③ COMPOSITE

OUT 2 Composite signal output without bypassing.

OUT 1 Composite signal output with bypassing.

INPUT Composite signal input terminal.

④ Y/C IN S-Video input.

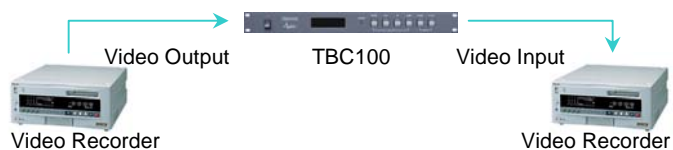
⑤ Remote Interface(options)

RS232 or RS422 remote control interface.

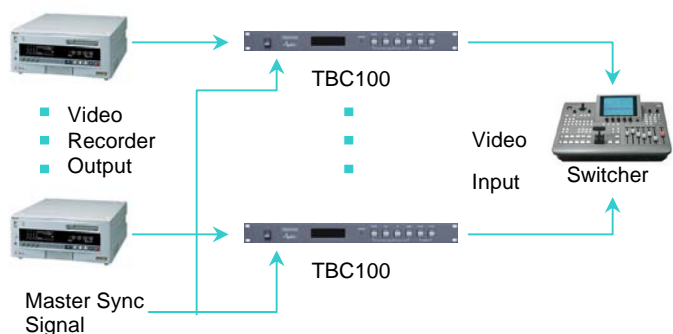
⑥ Power Supply Interface

Use TBC100 diagram

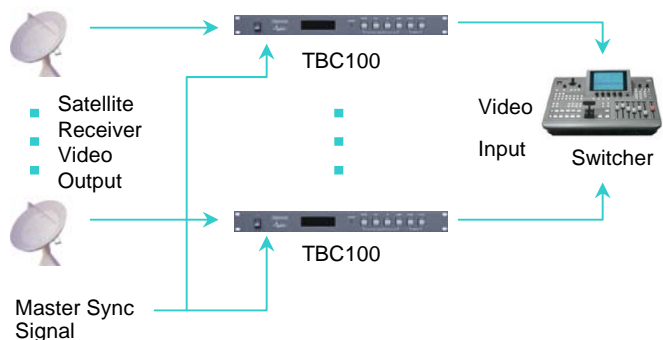
Program Copy



Program Synchronization Play



Satellite Receive



Ordering information

TBC100

Support time base correction and frame synchronization