



### Digital Frame Synchronizer

Digital Frame Synchronizer is designed to compensate variable delay paths of a synchronous digital video or to synchronize a non-synchronous digital video to the selected reference input signal.

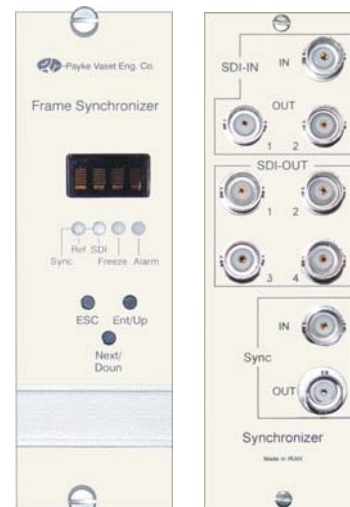
After equalizing, re-clocking, parallelized the serial digital signal SDI, written into a digital frames buffer, delay or freeze with respect to the selected reference timing, serialized, and then guided to four digital outputs according to BT656-3 270 Mbit/sec standard.

Selecting output sync reference, delay and freezing control handled via front panel together with alarm and status monitoring.

BNC connectors for SDI-in with active loop-through outputs, synchronized SDI outputs and sync in with passive loop-through are placed on rear panel.

#### Features

- Automatic Equalization and Re-clocking with P.L.L. of SDI Input with two Active loop-through
- Analog Reference Input with Auto Termination Passive loop-through
- Output Synchronization Based on Input SDI or Analog Reference Input
- Infinite Phase Adjust of Output SDI with 0.5 Pixel Resolution (37nSec)
- Auto Freezing When cutoff Input SDI
- Manual Frame and Field Freeze
- Installable in 3RU Digital Studio Subrack



#### Specifications

SDI Input and Output	
Standard	BT656-3 (625 Line), 270Mb/s
SDI input	BNC(×1), 75 Ω, 2 × active loop-through
Equalization	Automatic up to 40 dB @ 270 MHz
Return loss	>18 dB @ 270 Mb/s
SDI outputs	BNC(×4), 75 Ω, 0.8 Volt
Analog Reference Input	
Input	Composite sync,BT470
Connector	BNC (×1), 75 Ω
Amplitude	1 ~ 4 Vp-p
Output	BNC (×1), 75 Ω , passive loop-through

Overall Performance	
Operation	10 bit resolution
Freeze	Auto-freeze input signal loss, manual-freeze frame or field
Delay Adjust	37 nSec steps up to one frame
Phase Adjust	one pixel steps in one line
Synchronization	Internal SDI /External ref. inputs
General	
Power	±5 VDC , 1.2 A
Operating humidity	10 to 85%
Operating temperature	0 to +35°C
Dimensions	234 * 125 * 40