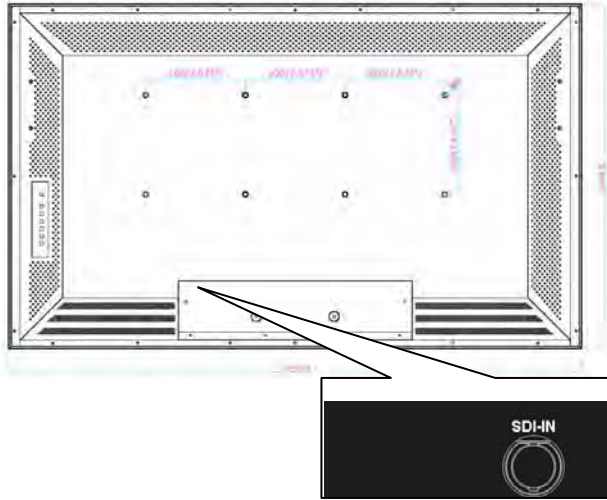


1. Scope and references

This document describes new signal- HD-SDI signal .

2. HD-SDI pin-connection configuration



No.	Name	Function
1 SDI-IN	BNC input terminal	SDI input Signal
2 SDI-OUT	BNC output terminal	SDI-loop through Signal

3. Key Features

- ▶ SMPTE 292M and SMPTE 259M-C compliant descrambling
- ▶ Auto-Configuration for HD-SDI, SD-SDI
- ▶ Serial loop-through for cable driver output. Selectable as reclocked or non-reclocked
- ▶ Supports native 10-bit resolution
- ▶ Dual serial digital input buffers with 2 x 1 mux
- ▶ Integrated serial digital signal termination
- ▶ Integrated reclocker
- ▶ Automatic or manual rate selection/indication (HD/SD-SDI input)
- ▶ Data rate from 270Mbps ~ 1.485Gbps.
Supports SDI, HD-SDI and dual-link HD-SDI digital video signals

4. Applications

SMPTE 292M serial digital interfaces

SMPTE 259M-C serial digital interfaces

5. Supported Video Standards

Video in/out: 10 bit-SD-SDI (SMPTE 259M-C) / HD-SDI (SMPTE 292M)

Resolutions

HD: 720P 50 /59 /60, 1080i 50 /59 /60

SD Resolutions: 480i (NTSC), 576i (PAL)

Pixel format: 4:2:2 YCbCr