

HD-SDI Input for USB-3

- ❑ HD-SDI input with full frame access
- ❑ Optional hardware scaling 1/4 or 1/16
- ❑ Support for HD-SDI and SD-SDI

GENERAL DESCRIPTION

The DTU-351 is a versatile USB-3 device for getting HD-SDI signals into a laptop, tablet or PC. The unit is bus-powered, so no power supply is required.

FEATURES

- All 10-bit data words from the full SDI frame can be read
- Separation of HANC, VANC and video
- All 16 audio channels can be read
- Scaling by 1/4 or 1/16 in hardware; scaling factor can be switched on-the-fly
- DirectShow filter available
- Free SDK for easy programmatic access to video, audio channels and auxiliary data



APPLICATIONS

- With *SdEye*: HD-SDI waveform analysis
- With *VF-Rec*: HD-SDI recording
- Input for DirectShow-enabled applications that process uncompressed video
- HD-SDI input for your application

KEY ATTRIBUTES

Parameter	Value
Physical layer	SD-SDI: SMPTE 259M HD-SDI: SMPTE 292M
SDI connector	75-Ω BNC
Return loss	≥ 12dB @ 0 to 1.5GHz
DekTec Matrix API features	8/10/16-bit conversion Audio/video/ANC extraction Hardware scaling: 1/4 or 1/16 Multiple unit synchronization
SDK	DTAPI with DekTec Matrix API

SYSTEM REQUIREMENTS

Parameter	Value
USB speed	USB-3*
OS	Win7/8/10 Linux ≥ 2.6.31/3.x/4.x

* The port has to be a real USB-3 port, the DTU-351 will not work with a USB-2 port.

SUPPORTED FORMATS

Formats
525i, 625i
720p23.98, 720p24, 720p25, 720p29.97, 720p30, 720p50, 720p59.94, 720p60
1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30
1080i50, 1080i59.94, 1080i60

ORDERING INFORMATION

Type	Description
DTU-351	DTU-351 with drivers and DirectShow filter, for writing your own application that needs input of an HD-SDI signal
DTU-351-SY	DTU-351 with <i>SdEye</i> waveform monitoring and analysis
DTC-351-VR	DTU-351 with VF-Rec stream recorder software