

## HD-SDI Input for USB-3

- HD-SDI input with full frame access
- Optional hardware scaling 1/4 or 1/16
- Support for 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 *DtGrabber+*: 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<br>HD-SDI: SMPTE 292M                                                                               |
| SDI connector              | 75-Ω BNC                                                                                                               |
| Return loss                | ≥12dB @ 0to1.5GHz                                                                                                      |
| DekTec Matrix API features | 8/10/16-bit conversion<br>Audio/video/ANC extraction<br>Hardware scaling: 1/4 or 1/16<br>Multiple unit synchronization |
| SDK                        | DTAPI with DekTec Matrix API                                                                                           |

### SYSTEM REQUIREMENTS

| Parameter | Value                                |
|-----------|--------------------------------------|
| USB speed | USB-3*                               |
| OS        | Win7, Win8/8.1<br>Linux ≥2.6.31, 3.x |

Please review the application note on system requirements which can be downloaded at [www.dektec.com/Products/USB3/DTU-351](http://www.dektec.com/Products/USB3/DTU-351)

\* 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-DP    | HD-SDI input for USB-3 with <i>DtGrabber+</i> recording software                                |
| DTU-351-DP-SY | DTU-351-DP with <i>SdEye</i> waveform monitoring and analysis                                   |
| DTU-351       | DTU-351 without software, for writing your own application that needs input of an HD-SDI signal |

Please refer to [www.dektec.com](http://www.dektec.com) for the latest pricing and a list of distributors and resellers.