

CE-SDIGEN

USER GUIDE

THE CE-SDIGEN is an HD-SDI Signal Generator, that when used with the CE-SDITEST (HD-SDI Cable Tester) can test existing coax cable to see if it is capable of supporting HD-SDI video.

Included Items:

- HD-SDI Signal Generator
- 9 Volt Battery

Optional Items:

- CE-SDIEXT (HD-SDI Extender)
- CE-SDITEST (HD-SDI Cable Tester)

OPERATION

From either the head end (DVR or Monitor) location or the location where a camera will be installed, connect the coax cable into the INPUT of the HD-SDI signal generator.

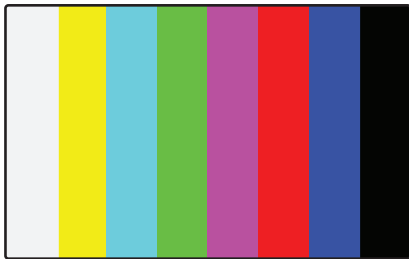
Move the power switch into the 'ON' position. A blue LED will indicate that the signal generator is functioning properly.

From the opposite end of the cable as the CE-SDIGEN, plug a HD-SDI cable tester (CE-SDITEST) into the coax cable.

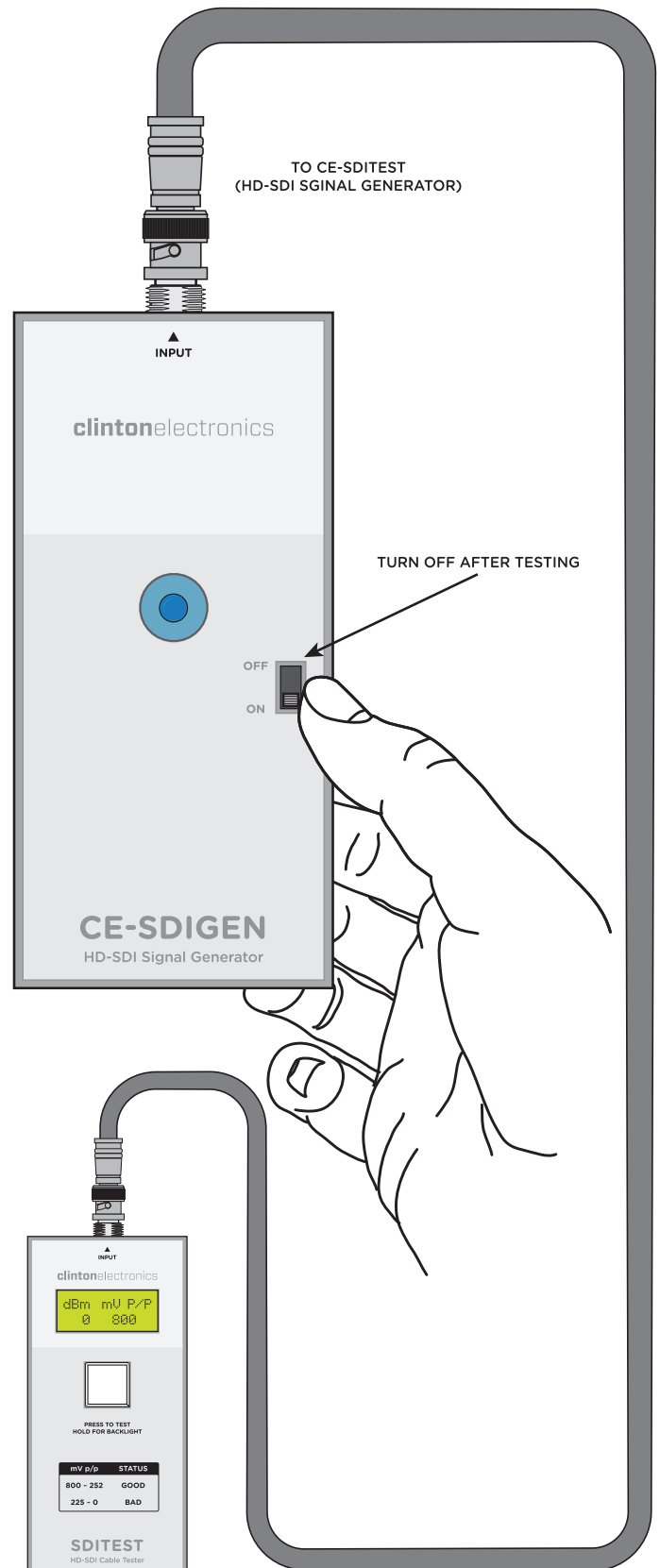
With the CE-SDITEST, measure the reading of the HD-SDI signal. A minimum value of 252 mVp/p should be displayed on the HD-SDI cable tester for optimal HD-SDI video signal.

A poor connection will result in no video signal or a signal that cuts in and out.

As a general rule, we recommend keeping coax cable runs at a maximum of 250'-275'. For longer runs of coax cable, we recommend using a CE-SDIEXT every 275' to extend the video signal.



HD-SDI VIDEO SIGNAL OUTPUTED FROM CE-SDIGEN WHEN VIEWED ON AN HD-SDI TEST MONITOR



CE-SDITEST READINGS

*CE-SDITEST Sold Separately

OUT OF RANGE
LOW

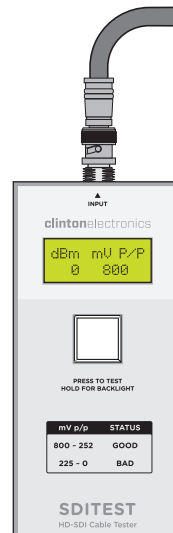
- NO POWER AT CAMERA
- SDIGEN NOT TURNED ON
- BAD COAX CABLE
- BAD BNC CONNECTIONS

dBm mV P/P
-10 252

- MINIMUM FOR GOOD CONNECTION

dBm mV P/P
-11 225

- BAD CONNECTION
- KEEP COAX CABLE LENGTH AT OR BELOW 250'-275'
- USE SDIEXT (EXTENDER) EVERY 250'-275' FOR LONGER INSTALLATIONS OF COAX CABLE
- INSPECT CABLE AND CONNECTIONS FOR DEFECT
- REPLACE CABLE AND/OR BNC CONNECTIONS

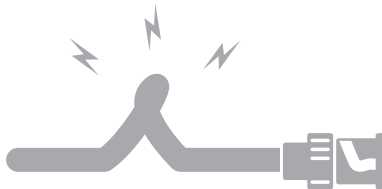


HD-SDI INSTALL TIPS



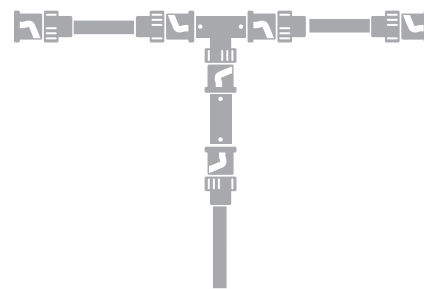
Existing Coax:

Coax cable that once worked fine for analog may not be suitable for HD-SDI installations. HD-SDI is a digital signal that has a different transmission method than analog. It is important to test the cable before committing to using the existing coax cable for your installation.



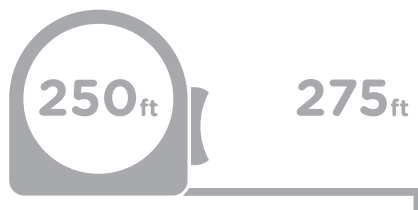
Coax Cable Integrity is Critical:

Do not kink or bend the coax cable at an extreme angle. The integrity of the outer shielding of coax is very important to the HD-SDI signal. Damaged cable reduces the signal strength and could even cause no video.



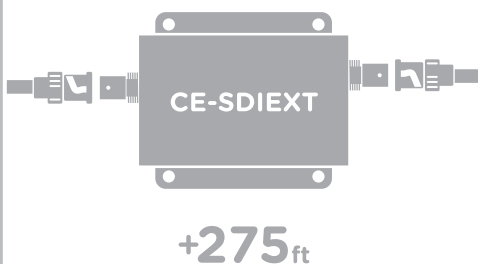
Avoid Splices:

Splices and poor quality connectors are not suitable for a HD-SDI system. Avoid splices at all costs and only use high quality compression style BNC connectors.



Typical Distance:

The typical distance with Clinton CE-CB1000 or CE-CW1000 Siamese cable range from 250-275 feet.



Longer Distances:

If you plan to run the coax longer than 275 feet, we strongly recommend that you use an HD-SDI extender like the CE-SDIEXT.



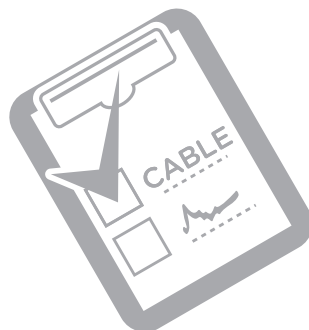
Coax Cable Testing:

It is advised to use a signal generator (CE-SDIGEN) and a cable tester (CE-SDITEST) to check the cable to see if it will be OK for an acceptable HD-SDI signal.



Analog and HD-SDI are not interchangeable.

While HD-SDI and Analog share the same type of cable and connectors, that is where the similarities end. Analog cameras will not work on HD-SDI DVRs and HD-SDI cameras will not work on Analog DVRs.



When in doubt test the cable:

Before you suspect the HD-SDI camera or DVR is defective please check the device with a short piece of coax cable to make sure it is not the cable run causing the trouble.



We are here to help:

If you need further help call Clinton Electronics Technical Support at 800-549-6393.