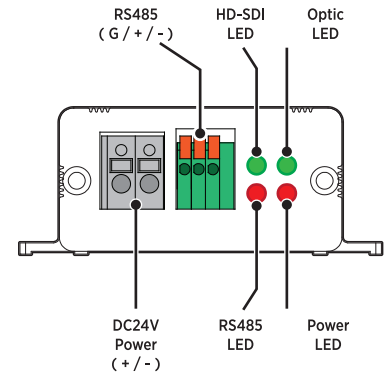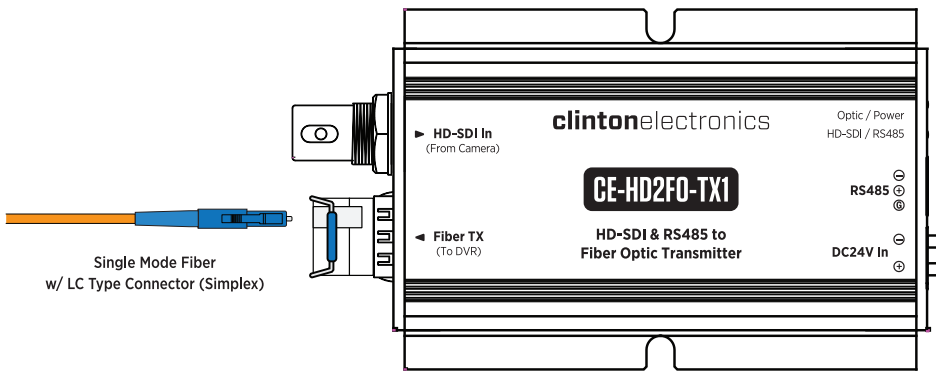# CE-HD2FO-TX1 User Guide

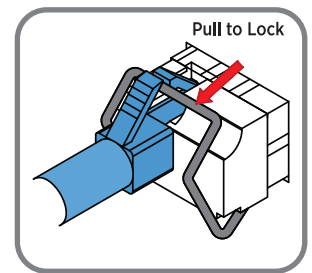## HD-SDI & RS485 to Fiber Transmitter

Use with an HD-SDI camera to transmit an HD-SDI signal (and RS485 data) up to 12 miles. Use in conjunction with the CE-HD2FO-RX1 Receiver (sold separately).

clintonelectronics

CE-HD2FO-TX1

HD-SDI & RS485 to Fiber Optic Transmitter

► HD-SDI In (From Camera)
◄ Fiber TX (To DVR)

Optic / Power HD-SDI / RS485
RS485 ⊖ ⊕ ⊚
DC24V In ⊖ ⊕

Single Mode Fiber w/ LC Type Connector (Simplex)

RS485 (G / + / -)   HD-SDI LED   Optic LED

DC24V Power (+ / -)   RS485 LED   Power LED
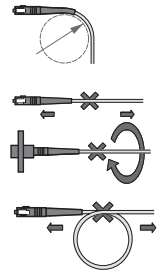
TRANSMITTER - (from the Camera side):

1. Connect HD-SDI output from camera into the connection marked **HD-SDI In**.
   - limit HD-SDI run from camera to transmitter to no more that 275 ft (using RG59 coaxial cable)
   - excessivly long runs of cable can cause video loss when using HD-SDI

2. Connect RS485 wires (optional).
   - observe correct polarity, if backwards PTZ control will not be possible

3. Connect Single Mode Fiber Optic cable with LC Type Connector (Simplex) into connection marked **Fiber TX**.
   - when making fiber connection insert connector fully until a 'CLICK' sound is made
   - after fully inserted pull the level to lock the fiber optical cable into the transmitter.

4. Make power connections using DC24V power, enusre correct polarity is used.
   Power Supply Sold Separately

5. Check the status of the LED indicators to confirm the correct connections:
   - Optic: Green LED will be lit if good connection between TRANSMITTER & RECEIVER
   - Power: Red LED will be lit if power is on & correct polarity
   - HD-SDI: Green LED will be lit with good HD-SDI video signal
   - RS485: Red LED will blink when data is being transmitted/received

6. Make connections to Receiver (CE-HD2FO-RX1), sold separately.

Pull to Lock

Fiber-Optic Cable Best Practices:
- At connection avoid tight bends.
- Don't pull cable from both ends.
- Don't spin the optical cable while connected to a device.
- Don't knot/kink the optical cable.

CONNECTION DIAGRAM

max 275Ft over Coax*

HD-SDI CAMERA

CE-HD2FO-TX1   RS485   DC24V

HD-SDI over SINGLE MODE FIBER

12 Miles

HD-SDI distance over coax will vary based on cable integrity

max 275Ft over Coax*

HD-SDI DVR

CE-HD2FO-RX1   RS485 IN   DC12V

HD-SDI over SINGLE MODE FIBER