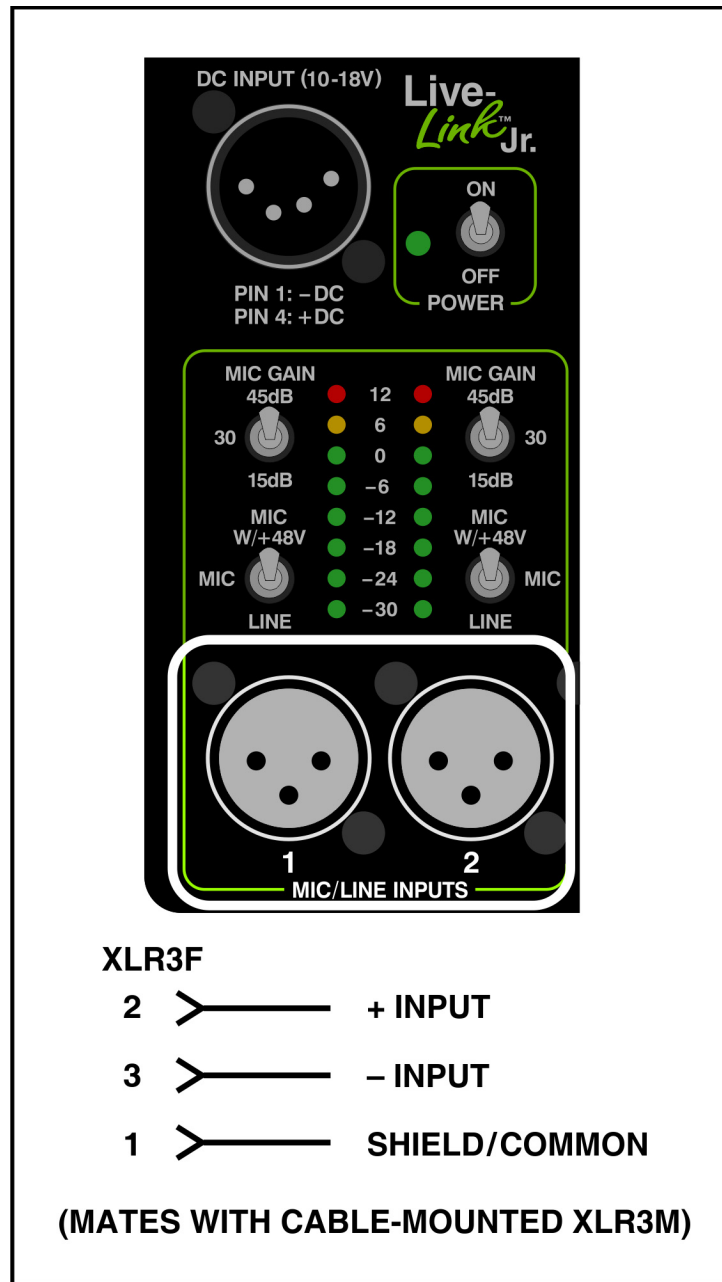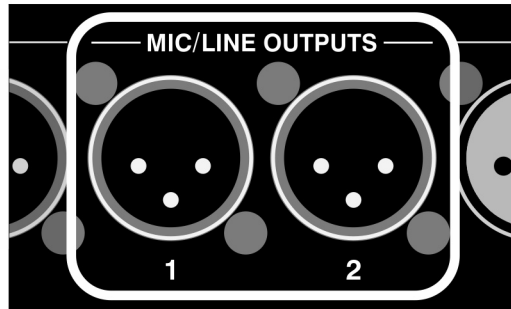# Connection Details for:

Live-Link™ Jr. Camera End Units
Order Codes: LLJr-CA-101/105/106

and

Live-Link Jr. Truck End Units
Order Codes: LLJr-TE-101/106

Mic/Line Inputs 1-2 – Camera End Units
(CA-101/105/106)

DC INPUT (10-18V)

Live-Link™ Jr.

ON

OFF
POWER

PIN 1: – DC
PIN 4: +DC

MIC GAIN
45dB

30

15dB

MIC
W/+48V

MIC

LINE

12
6
0
−6
−12
−18
−24
−30

MIC GAIN
45dB

30

15dB

MIC
W/+48V

MIC

LINE

1   2
MIC/LINE INPUTS

XLR3F

2 >——— + INPUT

3 >——— – INPUT

1 >——— SHIELD/COMMON

(MATES WITH CABLE-MOUNTED XLR3M)

Mic/Line Outputs 1-2 – Truck End Units
(TE-101/106)

MIC/LINE OUTPUTS

1   2

XLR3M

2 ⟵⟶ **+ OUTPUT**

3 ⟵⟶ **– OUTPUT**

1 ⟵⟶ **COMMON**

(MATES WITH CABLE-MOUNTED XLR3F)

XLR3M

2 ⟵ + OUTPUT

3 ⟵ – OUTPUT

1 ⟵ COMMON

(MATES WITH CABLE-MOUNTED XLR3F)

IFB Output – Camera End Units
(CA-101/105/106)

XLR3M

2 ⟵ **+28 Vdc w/CH1 AUDIO @ –10 dBu**

3 ⟵ **CH2 AUDIO @ –10 dBu**

1 ⟵ **COMMON**

(MATES WITH CABLE-MOUNTED XLR3F)
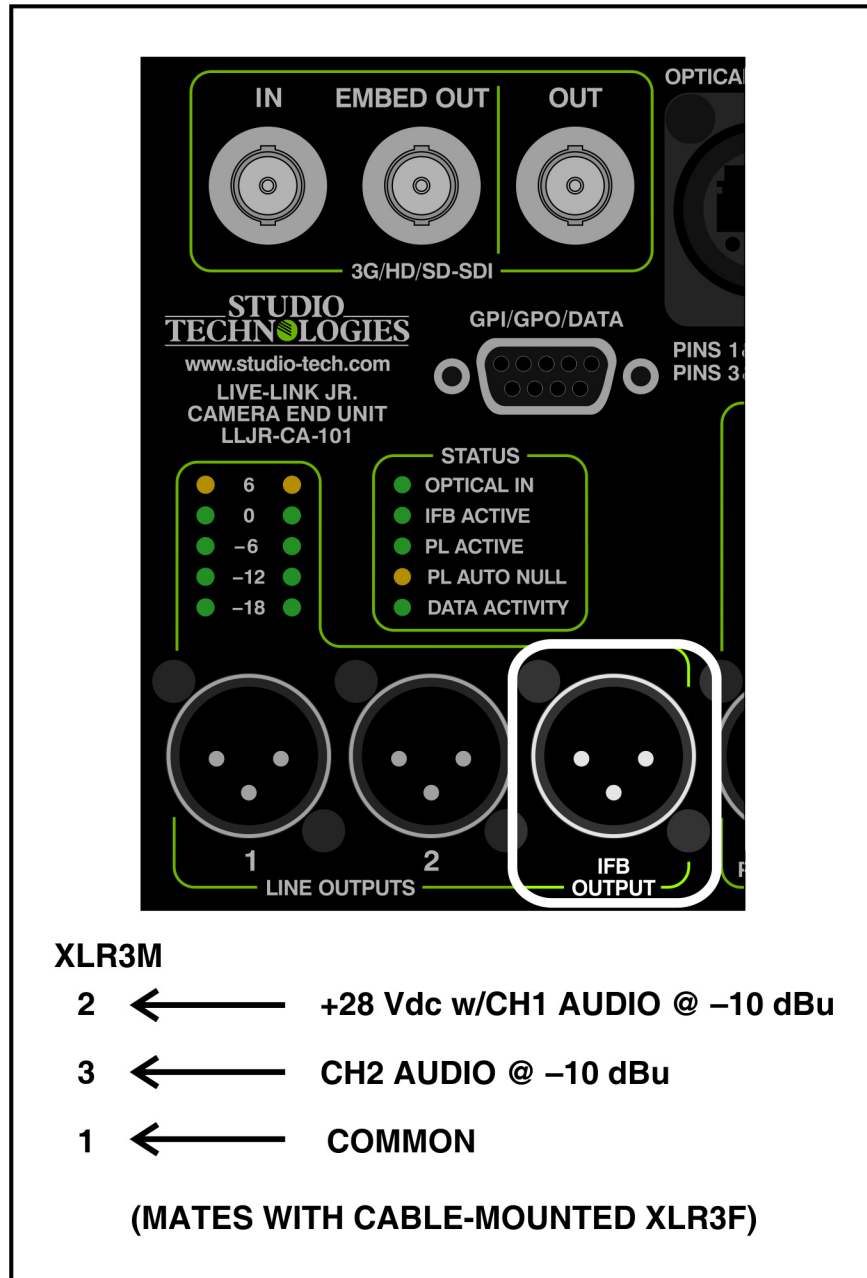
Line Inputs 1-2 – Truck End Units
(TE-101/106)

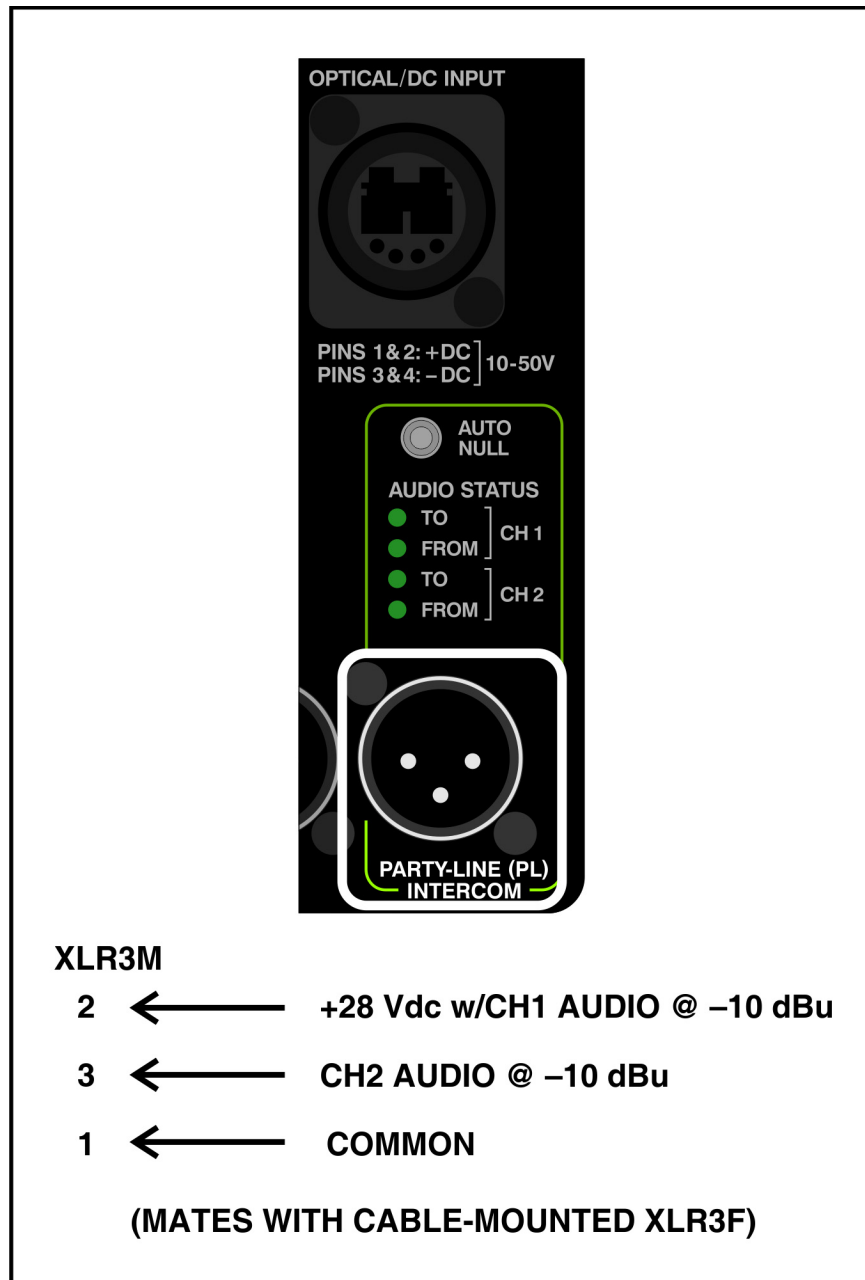**LINE INPUTS**

1   2
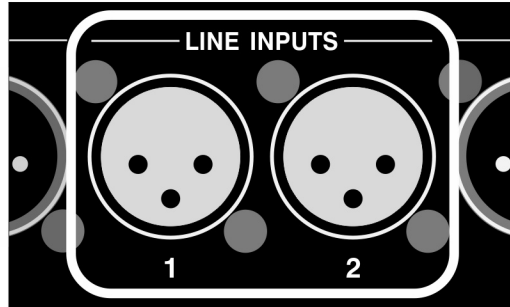
XLR3F

2 >——— + INPUT

3 >——— – INPUT

1 >——— COMMON

(MATES WITH CABLE-MOUNTED XLR3M)

2-Wire Party-Line (PL) Intercom – Camera End Units
(CA-101/105/106)

OPTICAL/DC INPUT

PINS 1 & 2: +DC ⎤ 10-50V
PINS 3 & 4: – DC ⎦

AUTO
NULL

AUDIO STATUS
● TO ⎤ CH 1
● FROM ⎦
● TO ⎤ CH 2
● FROM ⎦

PARTY-LINE (PL)
INTERCOM

XLR3M

2 ⟵⟶ **+28 Vdc w/CH1 AUDIO @ –10 dBu**

3 ⟵⟶ **CH2 AUDIO @ –10 dBu**

1 ⟵⟶ **COMMON**

(MATES WITH CABLE-MOUNTED XLR3F)

2-Wire Party-Line (PL) Intercom – Truck End Units
(TE-101/106)

PL INTERCOM

CAUTION:
+29VDC ON PIN 2

XLR3M

2 ⟵——— **+29 Vdc w/CH1 AUDIO @ –10 dBu**

3 ⟵——— **CH2 AUDIO @ –10 dBu**

1 ⟵——— **COMMON**

(MATES WITH CABLE-MOUNTED XLR3F)
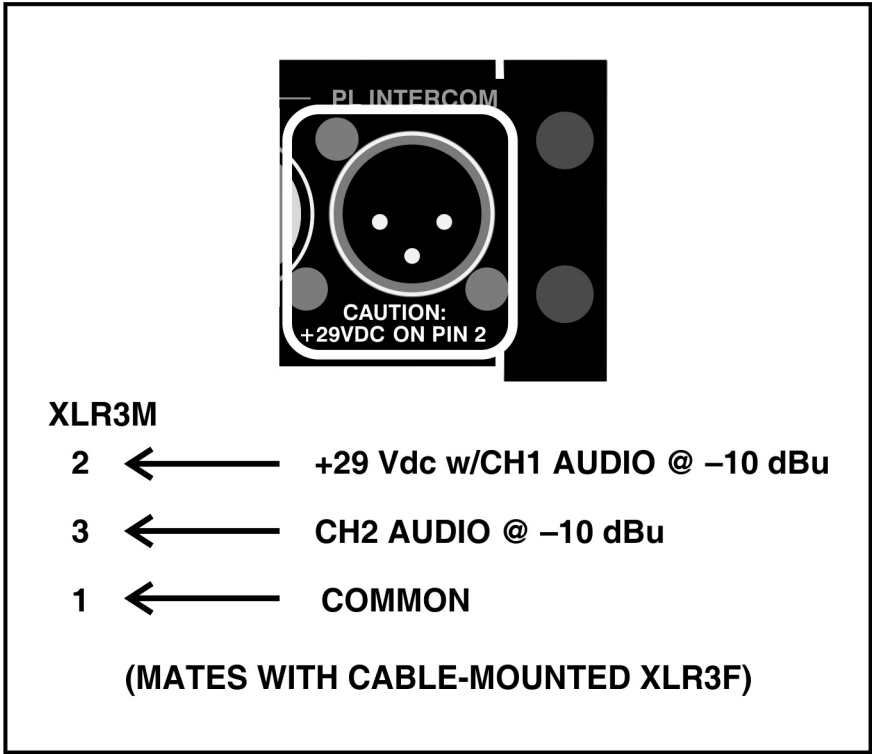
4-Wire Intercom Output and 4-Wire Intercom Input– Truck End Units (TE-101/106)

XLR3M

2 ⟵——————— **+ OUTPUT**

3 ⟵——————— **– OUTPUT**

1 ⟵——————— **COMMON**

(MATES WITH CABLE-MOUNTED XLR3F)

XLR3F

2 ⟩——————— **+ INPUT**

3 ⟩——————— **– INPUT**

1 ⟩——————— **COMMON**

(MATES WITH CABLE-MOUNTED XLR3M)
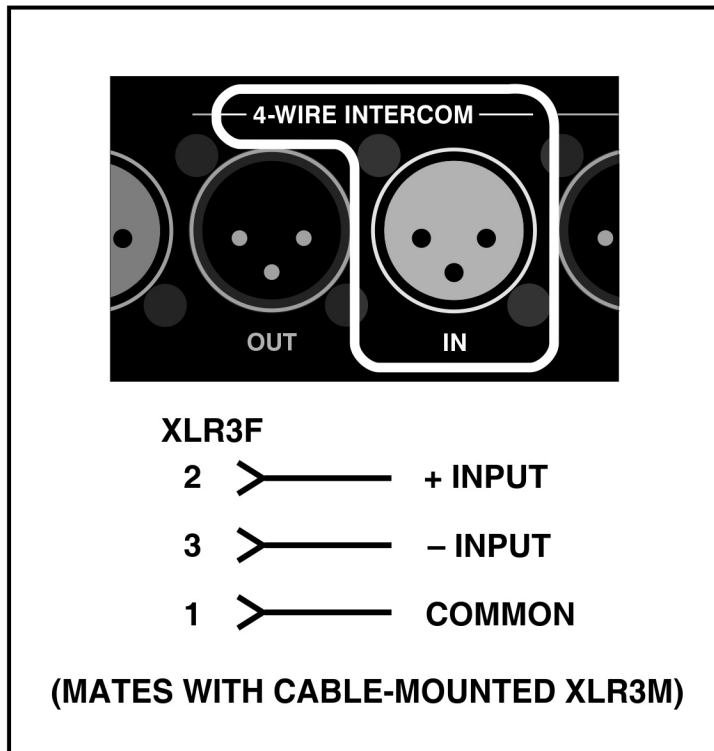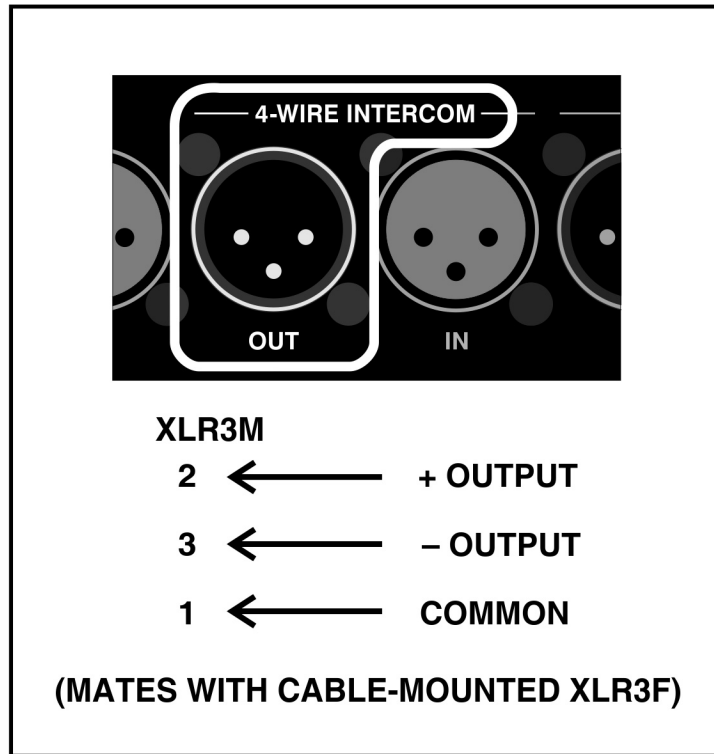
Optical/DC Input – Camera End Unit
(CA-101)

opticalCON DUO

FIBER B: ⟵——— **OPTICAL OUTPUT**

FIBER A: ⟩——— **OPTICAL INPUT**

1 ⟩———•——— **+DC INPUT**

2 ⟩——| **10 - 50V**

3 ⟩———•——— **−DC INPUT**

4 ⟩——|
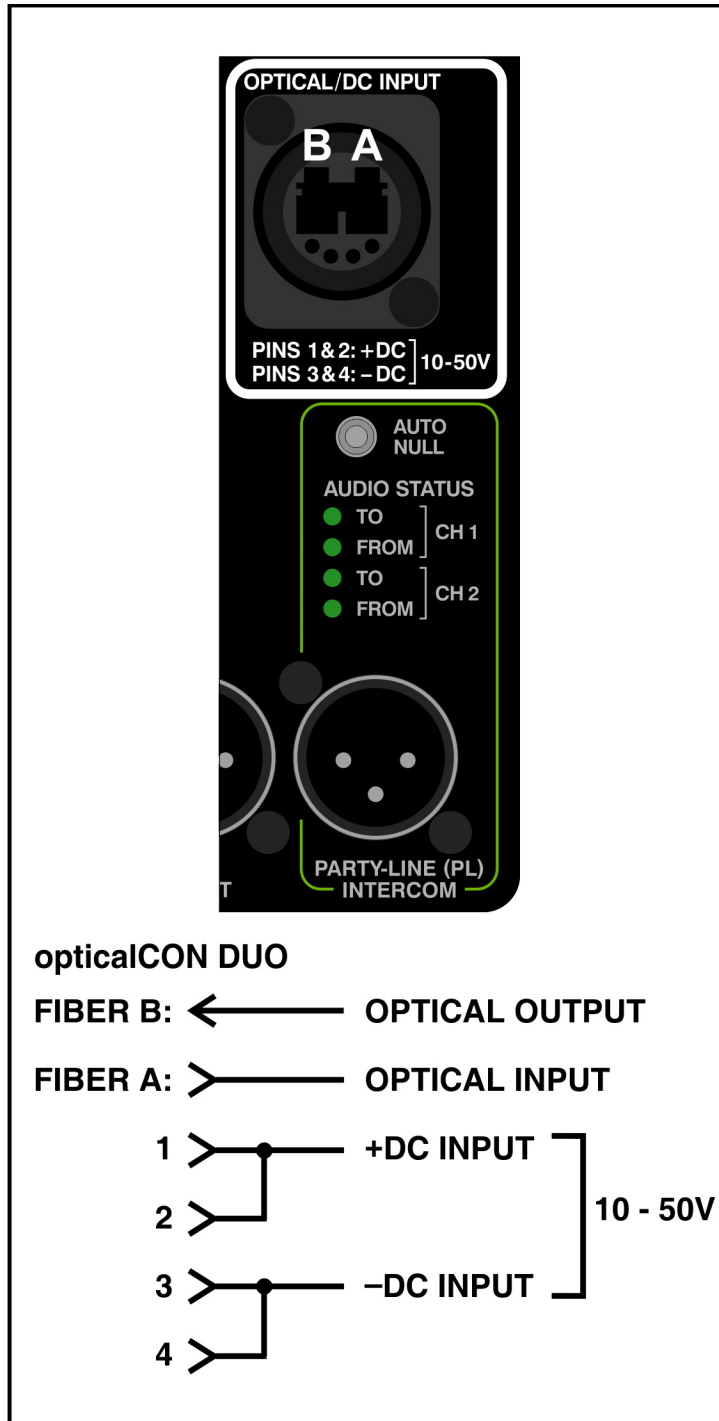
Optical – Camera End Unit
(CA-105)

OPTICAL (SINGLE-MODE)

OUT   IN

LIVE-LINK JR.
CAMERA END UNIT
LLJR-CA-105

AUTO
NULL

AUDIO STATUS

TO ⎤
        ⎥ CH 1
FROM ⎦

TO ⎤
        ⎥ CH 2
FROM ⎦

PARTY-LINE (PL)
INTERCOM

ST OPTICAL CONNECTORS

OUT: ⟵————   OPTICAL OUTPUT

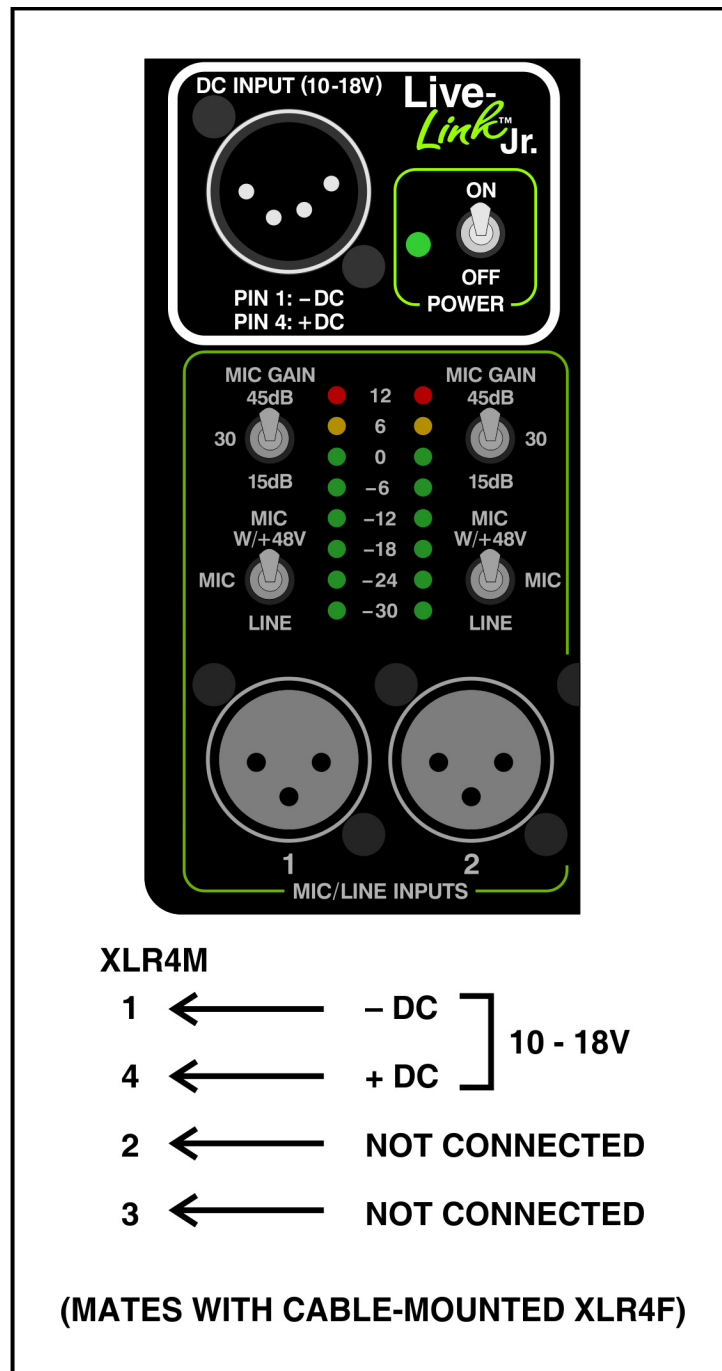IN: >————   OPTICAL INPUT
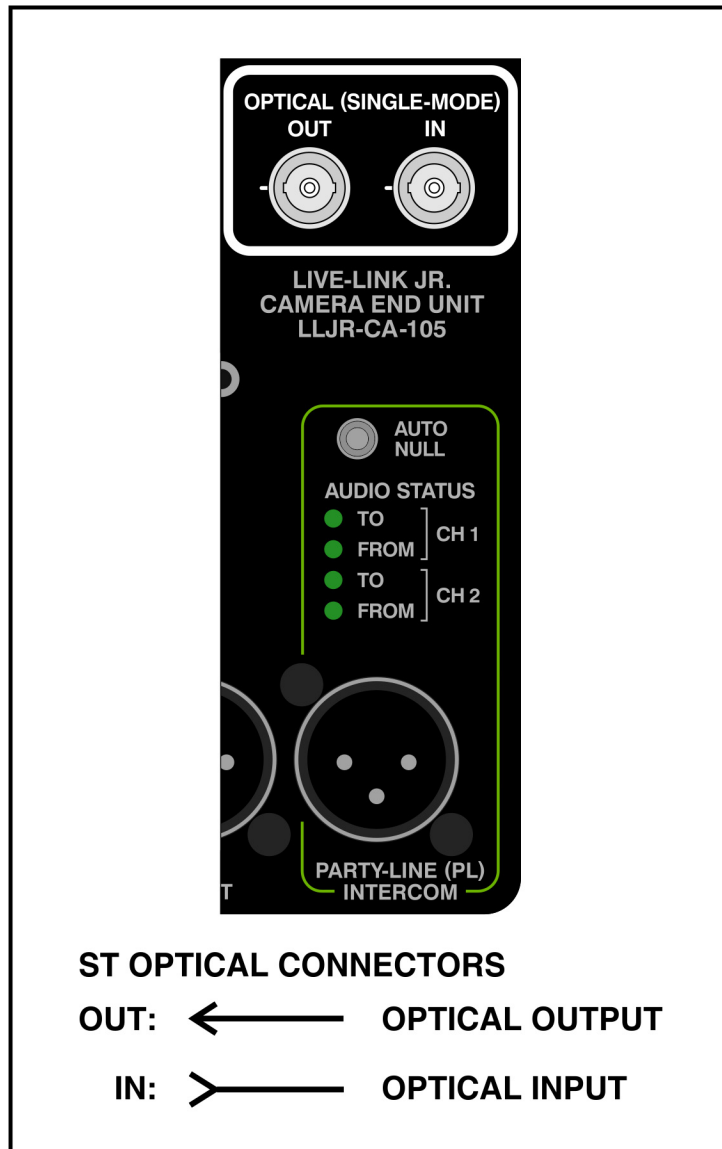
DC Power Connections – Camera End and Truck End Units

Camera End Unit (CA-101) shown. Connections are the same for Camera End Units (CA-105/106) and Truck End Units (TE-101/106).

DC INPUT (10-18V) Live-Link™ Jr.

PIN 1: – DC
PIN 4: +DC

ON
OFF
POWER

MIC GAIN
45dB

30

15dB

MIC
W/+48V

MIC

LINE

12
6
0
−6
−12
−18
−24
−30

MIC GAIN
45dB

30

15dB

MIC
W/+48V

MIC

LINE

1   2
MIC/LINE INPUTS

XLR4M

1 ⟵ – DC ⎤
                       ⎬ **10 - 18V**
4 ⟵ + DC ⎦

2 ⟵ **NOT CONNECTED**

3 ⟵ **NOT CONNECTED**
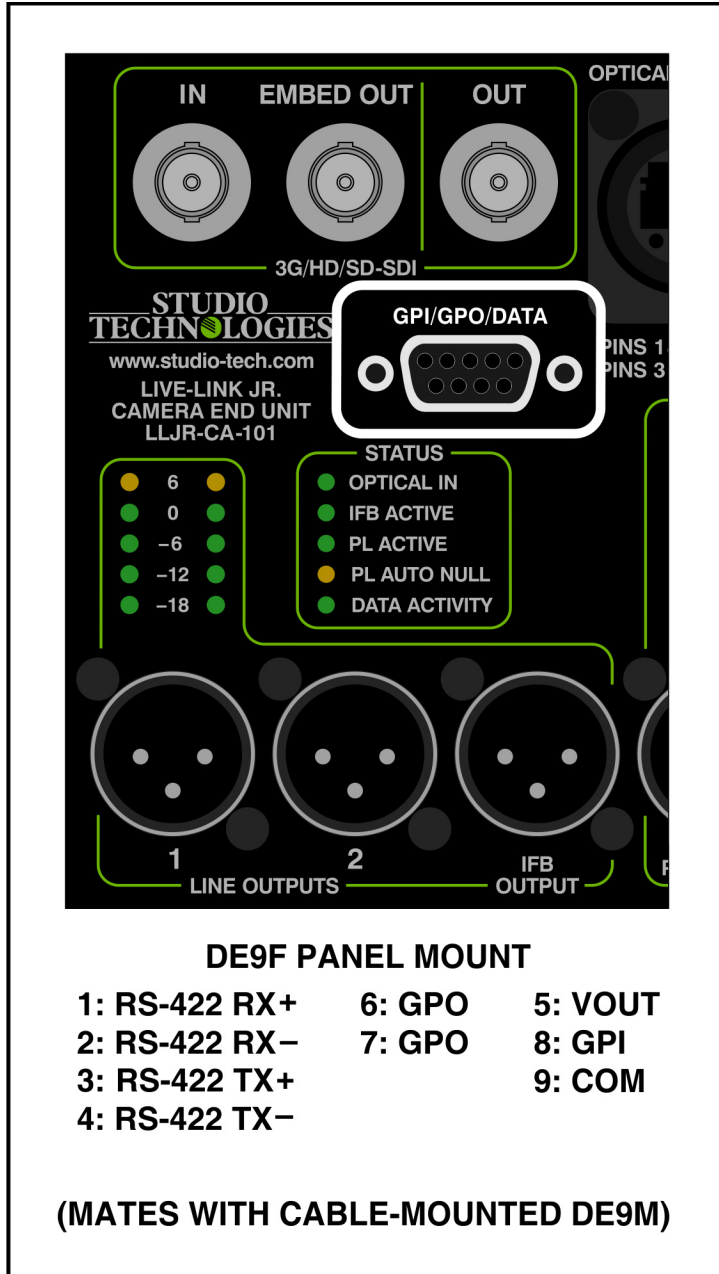
(MATES WITH CABLE-MOUNTED XLR4F)

Data/GPI/GPO Connections – Camera End and Truck End Units

Camera End Unit (CA-101) shown. Connections are the same for Camera End Units (CA-105/106) and Truck End Units (TE-101/106).

DE9F PANEL MOUNT

1: RS-422 RX+	6: GPO	5: VOUT
2: RS-422 RX−	7: GPO	8: GPI
3: RS-422 TX+		9: COM
4: RS-422 TX−		

(MATES WITH CABLE-MOUNTED DE9M)

Notes:

1. The RS-422 port supports data rates of up to 115.2 kb/s when SDI 1 is operating at HD and 3G rates. The port supports data rates of up to 57.6 kb/s at SD rate. The port is automatic rate sensing.

2. VOUT is a general purpose auxiliary output of 5.5 Vdc, 40 mA maximum. It can be used for powering a variety of applications including data converters (e.g., RS-422 to RS-232) and talley LEDs.

3. GPO is a general-purpose output which responds to the state of the GPI at the other end. It is a normally open (not shorted) solid-state relay contact. The contact rating is 60 Vdc maximum, 400 mA maximum.

4. GPI is a general purpose input that controls the state of the GPO on the other end. GPI is "pulled" to 3.3 Vdc via a 10 k resistor. Connecting (shorting) GPI to common causes GPO to close (short) at the other end.

5. The common connection (pin 9) is used by the RS-422, GPI, and VOUT functions.

6. The connector on the Live-Link Jr. units is a DE9 female: D-subminiature, "E" shell, 9 pins, female. Requires installer-supplied DE9M for interconnection.