

Remote Camera Interface Systems Full-Line Summary

Live-Link Mini Series

Supports Two Paths of 3G Digital Video, Line/IFB Outputs, Party-Line Intercom, and 4-Wire Intercom

These versions interconnect using one strand of single-mode fiber-optic cable (not included) and provide support for the following:

- **Digital Video:** one 3G/HD/SD-SDI send (camera to truck) and one 3G/HD/SD-SDI return (truck to camera)
- **Line/IFB:** two analog line-level audio returns (truck to camera) and one 2-channel IFB output (camera) with 28 V beltpack power
- **Intercom:** integrated 2-channel system with party-line on all Camera End and Truck End units; single-channel 4-wire interface on Truck End Rack-Mount units
- **Powering:** Camera End and Truck End Portable powered by 12 Vdc or battery; standard version of Truck End Rack-Mount unit powered by 12 Vdc; advanced version of Truck End Rack-Mount unit powered by 100-240 V, 50/60 Hz or 12 Vdc
- **Embed Outputs:** Truck End Portable provides two analog outputs de-embedded from SDI group 1 audio; advanced version of Truck End Rack-Mount unit provides four analog outputs de-embedded from SDI group 1 audio

Camera End and Truck End Portable units include enclosure with Anton/Bauer battery mount system (contact factory for “V-Mount” availability), handle, and rubber feet. The standard and advanced versions of Truck End Rack-Mount units mount in one space (1U) of a standard 19-inch equipment rack. All units each use one ST fiber-optic connector. Camera End, Truck End Portable, and standard version of Truck End Rack-Mount unit also includes a universal input (100-240 V, 50/60 Hz)/12 Vdc output power supply.

Camera End Unit

Camera End Unit – Portable (*Order Code: LLM-CA-105*)

Truck End Units

Truck End Unit – Rack-Mount:

Standard Version (*Order Code: LLM-TE-105*)

Advanced Version (*Order Code: LLM-TE-107*)

Truck End Unit – Portable (*Order Code: LLM-TE-109*)

Typical Configurations

LLM-CA-105 (portable) with LLM-TE-105 (rack-mount, standard)

LLM-CA-105 (portable) with LLM-TE-107 (rack-mount, advanced)

LLM-CA-105 (portable) with LLM-TE-109 (portable)



Live-Link Mini Accessories

Replacement 12 Vdc, 5 A Power Supply (*Order Code: PS-DC-01*)

Universal input, 100-240 V, 50/60 Hz; 12 Vdc, 5 amps (60 watts) output power supply. IEC C14 mains inlet; cable-mounted 4-pin female XLR DC output. One included with each Live-Link Mini Camera End unit and standard Truck End unit. Order as spare or replacement only!



Replacement Audio Cable (XLR5F to Dual XLR3M) (*Order Code: 13684*)

Used with Live-Link Mini Truck End Portable unit to “break out” 5-pin XLR connector into two 3-pin male XLRs. Overall length approximately 3 feet (0.9 meters). One included with each Live-Link Mini Truck End Portable unit. Order as spare or replacement only!



Live-Link Jr. Series

Supports Two Paths of 3G Digital Video, Two Mic/Line Inputs, Line/IFB Outputs, Party-Line and 4-Wire Intercom, Data and GPI/GPO

These versions interconnect using two strands of single-mode fiber-optic cable (not included) and provide support for the following:

- **Digital Video:** one 3G/HD/SD-SDI send (camera to truck) and one 3G/HD/SD-SDI return (truck to camera)
- **Mic/Line Audio:** two analog mic/line sends (camera to truck) with selectable gain and 48 V phantom power
- **Line/IFB:** two analog line-level audio returns (truck to camera) and one 2-channel IFB output (camera) with 28 V beltpack power
- **Intercom:** integrated 2-channel system; party-line (PL) with 28 V beltpack power and auto nulling on Camera End and Truck End, single-channel 4-wire interface on Truck End
- **Data/Remote Control:** one RS-422 and one GPI/GPO
- **Powering:** Camera End powered by 12 Vdc, battery or 10-50 Vdc via a hybrid fiber/copper connector; Truck End powered by 100-240 V, 50/60 Hz or 12 Vdc

The Camera End units are portable and include an enclosure with Anton/Bauer battery mount system (contact factory for “V-Mount” availability), handle, and rubber feet. Also included is a universal input (100-240 V, 50/60 Hz)/12 Vdc output power supply. Available with opticalCON DUO or ST fiber-optic connectors. Truck End units mount in one space (1U) of a standard 19-inch equipment rack. Includes ST fiber-optic connectors.

Camera End with opticalCON® DUO Optical Connector

Camera End Unit: opticalCON DUO (*Order Code: LLJR-CA-101*)

Camera End with ST Optical Connectors

Camera End Unit: two ST Connectors (*Order Code: LLJR-CA-105*)

Truck End with ST Optical Connectors

Truck End Unit: two ST Connectors (*Order Code: LLJR-TE-101*)

Typical Configurations

LLJR-CA-101 with LLJR-TE-101

LLJR-CA-105 with LLJR-TE-101

Live-Link Jr. Accessories

Live-Link Jr. Hybrid Fiber/Copper Power Supply Installation Kit (*Order Code: HFCPSK-01*)

For use with Live-Link Jr. applications where camera end powering using hybrid fiber/copper cable assemblies is desired. Includes pre-wired opticalCON DUO bulkhead connector, LC-ST fiber-optic jumpers, power interface board, and 48 V, 2.5 A output/universal input (100-240 V, 50/60 Hz) power supply.



Replacement 12 Vdc, 5 A Power Supply (*Order Code: PS-DC-01*)

Universal input, 100-240 V, 50/60 Hz; 12 Vdc, 5 amps (60 watts) output power supply. IEC C14 mains inlet; 4-pin female XLR DC output. One included with each Live-Link Jr. Camera End unit. This power supply is for spare or replacement only!



Live-Link “04X” Series

Supports Four Paths of 3G Digital Video, Four Mic/Line Inputs, Line/IFB Outputs, and 2-Channel Intercom

These versions interconnect using two strands of single-mode fiber-optic cable (not included) and provide support for the following:

- **Digital Video:** two 3G/HD/SD-SDI sends (camera to control room) and two 3G/HD/SD-SDI returns (control room to camera)
- **Mic/Line Audio:** four analog mic/line sends (camera to control room) with selectable gain and 48 V phantom power
- **Line/IFB:** two analog line-level audio returns (control room to camera) and one 2-channel IFB output (camera) with 28 V beltpack power
- **Intercom – Camera End Unit:** 2-channel party-line (PL) interface with auto nulling and 28 V beltpack power
- **Intercom – Control Room Unit:** available with either 2-channel 4-wire interface or 2-channel party-line (PL) interface with auto nulling and 28 V beltpack power
- **Data/Remote Control:** 10/100 Ethernet, RS-232, RS-422, and GPI/GPO

Portable Version units include universal input (100-240 V, 50/60 Hz)/12 Vdc output power supply, Anton/Bauer battery mount system (battery not included), handle, and rubber feet. Rack-Ready Version units include universal input (100-240 V, 50/60 Hz)/12 Vdc output power supply and are normally installed in an optional Live-Link Rack Mounting Enclosure (see Accessories).

opticalCON® DUO Optical Connector (two fibers)

Camera End Unit – Party-Line (PL) Intercom:
Portable Version (Order Code: LL-3G-CA-041)

Control Room Unit – 4-Wire Intercom:
Portable Version (Order Code: LL-3G-CR-041)
Rack-Ready Version (Order Code: LL-3G-CR-042)

Control Room Unit – Party-Line (PL) Intercom:
Portable Version (Order Code: LL-3G-CR-043)
Rack-Ready Version (Order Code: LL-3G-CR-044)

Typical Configurations:

LL-3G-CA-041 (portable w/PL intercom) with LL-3G-CR-041 (portable w/4-wire intercom)

LL-3G-CA-041 (portable w/PL intercom) with LL-3G-CR-043 (portable w/PL intercom)

LL-3G-CA-041 (portable w/PL intercom) with LL-3G-CR-042 (rack-ready w/4-wire intercom)



ST Optical Connectors, Qty. 2 (two fibers)

Camera End Unit – Party-Line (PL) Intercom:
Portable Version (Order Code: LL-3G-CA-045)

Control Room Unit – 4-Wire Intercom:
Portable Version (Order Code: LL-3G-CR-045)
Rack-Ready Version (Order Code: LL-3G-CR-046)

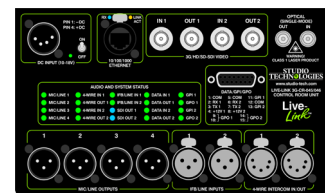
Control Room Unit – Party-Line (PL) Intercom:
Portable Version (Order Code: LL-3G-CR-047)
Rack-Ready Version (Order Code: LL-3G-CR-048)

Typical Configurations:

LL-3G-CA-045 (portable w/PL intercom) with LL-3G-CR-045 (portable w/4-wire intercom)

LL-3G-CA-045 (portable w/PL intercom) with LL-3G-CR-047 (portable w/PL intercom)

LL-3G-CA-045 (portable w/PL intercom) with LL-3G-CR-046 (rack-ready w/4-wire intercom)



Live-Link “05X” Series

Supports Five Paths of 3G Digital Video, Four Mic/Line Inputs, Line/IFB Outputs, and Party-Line Intercom

These versions interconnect using two strands of single-mode fiber-optic cable (not included) and provide support for the following:

- **Digital Video:** three 3G/HD/SD-SDI sends (camera to control room) and two 3G/HD/SD-SDI returns (control room to camera)
- **Mic/Line Audio:** four analog mic/line sends (camera to control room) with selectable gain and 48 V phantom power
- **Line/IFB:** two analog line-level audio returns (control room to camera) and one 2-channel IFB output (camera) with 28 V beltpack power
- **Intercom:** 4-wire (control room) to 2-wire (camera) with auto nulling and 2-channel party-line (PL) interface with 28 V beltpack power
- **Data/Remote Control:** 10/100 Ethernet, RS-232, RS-422, and GPI/GPO

Portable Version units include universal input (100-240 V, 50/60 Hz)/12 Vdc output power supply, Anton/Bauer battery mount system (battery not included), handle, and rubber feet. Rack-Ready Version units include universal input (100-240 V, 50/60 Hz)/12 Vdc output power supply and are normally installed in an optional Live-Link Rack Mounting Enclosure (see Accessories).

opticalCON® DUO Optical Connector (two fibers)

Camera End Unit:

Portable Version (*Order Code: LL-3G-CA-051*)

Control Room Unit:

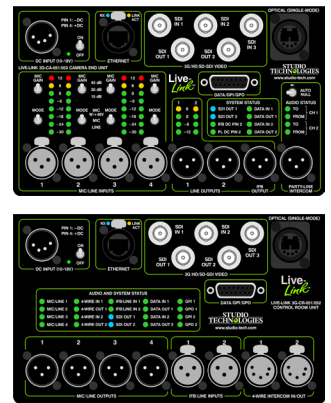
Portable Version (*Order Code: LL-3G-CR-051*)

Rack-Ready Version (*Order Code: LL-3G-CR-052*)

Typical Configurations:

LL-3G-CA-051 (portable) with LL-3G-CR-051 (portable)

LL-3G-CA-051 (portable) with LL-3G-CR-052 (rack-ready)



ST Optical Connectors, Qty. 2 (two fibers)

Camera End Unit:

Portable Version (*Order Code: LL-3G-CA-055*)

Control Room Unit:

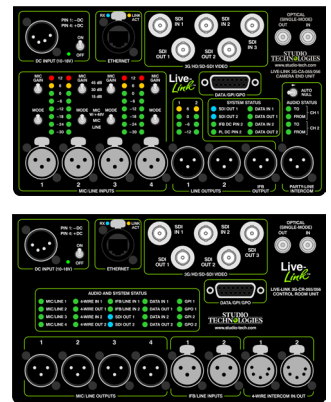
Portable Version (*Order Code: LL-3G-CR-055*)

Rack-Ready Version (*Order Code: LL-3G-CR-056*)

Typical Configurations:

LL-3G-CA-055 (portable) with LL-3G-CR-055 (portable)

LL-3G-CA-055 (portable) with LL-3G-CR-056 (rack-ready)



Live-Link “06X” Series

Supports Four Paths of 3G Digital Video, One Path of Analog Video, Four Mic/Line Inputs, Line/IFB Outputs, and Party-Line Intercom

These versions interconnect using two strands of single-mode fiber-optic cable (not included) and provide support for the following:

- **Digital Video:** two 3G/HD/SD-SDI sends (camera to control room) and two 3G/HD/SD-SDI returns (control room to camera)
- **Analog Video:** one analog (composite) return (control room to camera)
- **Mic/Line Audio:** four analog mic/line sends (camera to control room) with selectable gain and 48 V phantom power
- **Line/IFB:** two analog line-level audio returns (control room to camera) and one 2-channel IFB output (camera) with 28 V belt-pack power
- **Intercom:** 4-wire (control room) to 2-wire (camera) with auto nulling and 2-channel party-line (PL) interface with 28 V belt-pack power
- **Data/Remote Control:** 10/100 Ethernet, RS-232, RS-422, and GPI/GPO

Portable Version units include universal input (100-240 V, 50/60 Hz)/12 Vdc output power supply, Anton/Bauer battery mount system (battery not included), handle, and rubber feet. Rack-Ready Version units include universal input (100-240 V, 50/60 Hz)/12 Vdc output power supply and are normally installed in an optional Live-Link Rack Mounting Enclosure (see Accessories).

opticalCON® DUO Optical Connector (two fibers)

Camera End Unit:

Portable Version (Order Code: LL-3G-CA-061)

Control Room Unit:

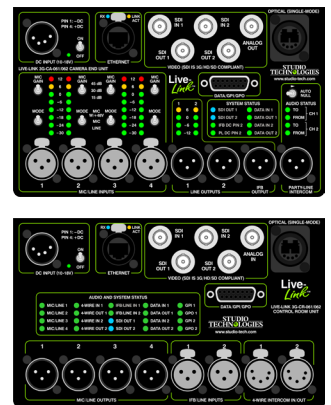
Portable Version (Order Code: LL-3G-CR-061)

Rack-Ready Version (Order Code: LL-3G-CR-062)

Typical Configurations:

LL-3G-CA-061 (portable) with LL-3G-CR-061 (portable)

LL-3G-CA-061 (portable) with LL-3G-CR-062 (rack-ready)



ST Optical Connectors, Qty. 2 (two fibers)

Camera End Unit:

Portable Version (Order Code: LL-3G-CA-065)

Control Room Unit:

Portable Version (Order Code: LL-3G-CR-065)

Rack-Ready Version (Order Code: LL-3G-CR-066)

Typical Configurations:

LL-3G-CA-065 (portable) with LL-3G-CR-065 (portable)

LL-3G-CA-065 (portable) with LL-3G-CR-066 (rack-ready)



Live-Link “07X” Series

Supports Six Paths of 3G Digital Video, Four Mic/Line Inputs, Line/IFB Outputs, and Party-Line Intercom

These versions interconnect using two strands of single-mode fiber-optic cable (not included) and provide support for the following:

- **Digital Video:** five 3G/HD/SD-SDI sends (camera to control room) and one 3G/HD/SD-SDI return (control room to camera)
- **Mic/Line Audio:** four analog mic/line sends (camera to control room) with selectable gain and 48 V phantom power
- **Line/IFB:** two analog line-level audio returns (control room to camera) and one 2-channel IFB output (camera) with 28 V beltpack power
- **Intercom:** 4-wire (control room) to 2-wire (camera) with auto nulling and 2-channel party-line (PL) interface with 28 V beltpack power
- **Data/Remote Control:** 10/100 Ethernet, RS-232, RS-422, and GPI/GPO

Portable Version units include universal input (100-240 V, 50/60 Hz)/12 Vdc output power supply, Anton/Bauer battery mount system (battery not included), handle, and rubber feet. Rack-Ready Version units include universal input (100-240 V, 50/60 Hz)/12 Vdc output power supply and are normally installed in an optional Live-Link Rack Mounting Enclosure (see Accessories).

ST Optical Connectors, Qty. 2 (two fibers)

Camera End Unit:

Portable Version (*Order Code: LL-3G-CA-075*)

Rack-Ready Version (*Order Code: LL-3G-CA-076*)

Control Room Unit:

Portable Version (*Order Code: LL-3G-CR-075*)

Rack-Ready Version (*Order Code: LL-3G-CR-076*)

Typical Configurations:

LL-3G-CA-075 (portable) with LL-3G-CR-075 (portable)

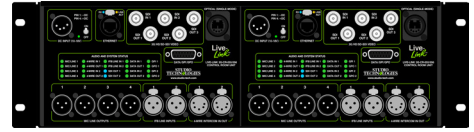
LL-3G-CA-075 (portable) with LL-3G-CR-076 (rack-ready)



Live-Link Accessories

Live-Link Rack Mounting Enclosure (Order Code: LL-RME-01)

For use with Live-Link rack-ready versions only. One or two Live-Link units can be mounted in this enclosure which is then mounted in three spaces (3U) of a standard equipment rack.



Live-Link Cover (Order Code: LL-COVER-02)

For use with Live-Link Rack-Ready units. Aluminum cover with no handle, battery bracket, or protective bumpers. For special-application use only.

Model 45A Interface (Order Code: M45A)

Use with Live-Link control room units to interface a 2-wire full-duplex party-line (PL) intercom circuit with the 4-wire intercom connections. Provides full-featured 2-channel interface with automatic nulling. Powered by PL intercom circuit or external source of 24 Vdc. Self-contained portable unit. Can be rack-mounted using optional one- or two-unit rack-mount front panel, purchased separately. Includes 24 V, 0.75 A output/universal input (100-240 V, 50/60 Hz) power supply.



Live-Link/Model 45A Bracket (Order Code: LL-BRACKET-01)

Allows a Model 45A Interface to be attached to top of Live-Link Portable Version units.

Model 32A Talent Amplifier (Order Code: M32A)

Self-contained amplifier module designed for use by talent or production personnel. A channel selector switch, along with level control, allows either IFB channel to drive talent earpiece or headset. Any combination of up to three Model 32A or Model 33A Talent Amplifiers can be supported by Live-Link's IFB output.



Model 33A Talent Amplifier (Order Code: M33A)

Advanced, self-contained amplifier module designed for use by production personnel. A channel selector switch, along with two level controls, allows either IFB channel, or a user-adjusted mix of the two IFB channels, to drive talent earpiece or headset. Any combination of up to three Model 32A or Model 33A Talent Amplifiers can be supported by Live-Link's IFB output.



Model 36 Talent Interface

Combination of self-contained headset/earpiece amplifier and microphone routing module. Up to three Model 36 units can be powered by Live-Link's IFB output. Select 5-pin XLR, 6-pin XLR (Switchcraft® pin arrangement), or 7-pin XLR headset connector.



Model 36 with 6-Pin Headset Connector Shown

Model 36 with 5-Pin Headset Connector (Order Code: M36-5)

Model 36 with 6-Pin Headset Connector (Order Code: M36-6)

Model 36 with 7-Pin Headset Connector (Order Code: M36-7)

Replacement 12 Vdc, 5 A Power Supply (Order Code: PS-DC-01)

Universal input, 100-240 V, 50/60 Hz; 12 Vdc, 5 amps (60 watts) output power supply. IEC C14 mains inlet; 4-pin female XLR DC output. One included with each Live-Link Camera End and Live-Link Control Room unit. This power supply is for spare or replacement only!



Replacement Audio Cable (XLR5M to XLR3F/XLR3M) (Order Code: 13662)

Used with Live-Link -04X, -05X, -06X, and -07X Control Room Unit's 4-wire intercom in/out connectors to "break out" 5-pin XLR connector into one 3-pin female XLR and one 3-pin male XLR. Overall length approximately 3 feet (0.9 meters). Two included with each Live-Link -04X, -05X, -06X, and -07X system. Order as spare or replacement only!



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