



Features

- Extends the reach of Sony's High Definition Digital Triax Camera Chains
 - HXC100
 - HSC300
- Complete camera control
- Reach to 40 kilometers with no repeaters
- All 2-way triax signals
 - High-Def Digital Video
 - Return video & genlock
 - Audio, intercom & IFB
 - Control data & tally
- Portable, lightweight units
- Integrated Optical Power measurement tools (bi-di)
- Eliminates all EMF and RF interference, ground faults, hum
- Provides camera power with advanced cable-check interlock, insuring user safety.
- Drives long triax runs
- Fast, easy setup/teardown
- Uses one or two strands of fiber
- Multiplex up to eight camera chains onto a single fiber strand using Telecast TelePort system

Digital Triax-to-Fiber Camera

Extend Sony HXC & HSC digital triax cameras on standard optical fiber

The Cobra 2DT permits use of fiber cable to extend the link between the industry's new high definition "digital triax" cameras and their Camera Control Units (CCU's). It is compatible with the industry's first, and most popular digital triax camera chains: the Sony HXC100 and HSC300.

Simple to set up and use

The Cobra 2DT system uses a pair of fiber optic transceivers that convert the camera and CCU's digital RF signals seamlessly to optical signals, transmitting them on a fiber cable, using one or two strands to deliver all the bidirectional video, audio, intercom and camera control signals between your camera and base station. Simple, easy-to-read signal strength meters provide realtime status at each end of the link.

10x the Distance, 1/10th the Weight

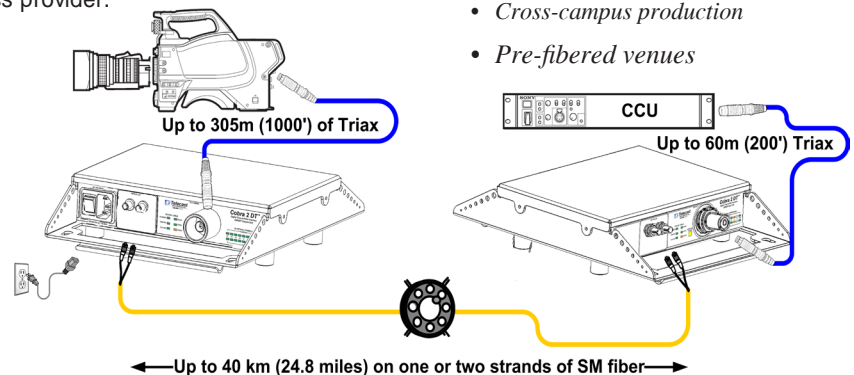
Use "dark" infrastructure fiber or durable, lightweight "tactical" fiber optic cable to extend the chain over 40 kilometers, with no repeaters. With Tac-2 fiber cable at 16 lbs per 1,000 feet, your setup and strike go faster and easier. Fiber also eliminates all electromagnetic and radio frequency interference, as well as ground faults and hum. The transceivers can be equipped with most standard fiber optic connectors, including, ST, LC, MX, OpticalCON, or SMPTE 304M.

Mussel Shell or Rack Mount

The Cobra 2DT transceivers are available in compact, robust, and weather resistant "Mussel Shell" style enclosures. The Camera Unit runs off of 100-240VAC, and powers your camera by reinserting power up to 300 meters (1000') of triax cable, depending on camera/CCU model.. The Base Unit is powered from the camera chain's CCU. One or two of the base units can be configured into a single 1RU rack-mountable enclosure.

Control Cross-Town or Cross-Campus Cameras

Share production facilities among several city-wide or facility-wide venues. Use fiber optic backbone cables in your building or campus, between your stadium and arena, or use metropolitan "dark fiber" from your carrier or access provider.



Applications

- Sports teleproduction
 - Golf, skiing, racing, etc.
- Remote Camera Links
- Metropolitan production
- Cross-campus production
- Pre-fibered venues

Ordering Information

Configuration Table

CBR2	S1	CA	MS	1	S2	F
Series	Model	Camera or CCU?	Enclosure	# of Units*	Fiber Connector	Triax Connector
CBR2	S1	CA BS	Mini Mussel MS Rack RM	Mini Mussel 1 Rack 1 2	S2 S1 L2 OC2 MX	F-Fischer KG-Kings DH-Damar-Hagen

Series	CBR2	Cobra2D Triax-to-Fiber
Camera Make	S1	Sony HSC/HXC
Camera or CCU End?	CA	Camera End
	BS	CCU end
Enclosure	MS	Mussel Shell
	RM	1 RU rack mount
Units	1	single
	2	Dual CCU End (Rack Mount only) (2 in BS-RM only)
Fiber Conns	S2	2 ST connectors
	S1	1 ST connector (WDM)
	L2	2 LC connectors
	OC2	OpticalCON connector (dry)
	MX	MX connector
Triax Conns	304	SMPTE 304M connector (dry)
	F	Fischer
	KG	Kings
	DH	Damar-Hagen

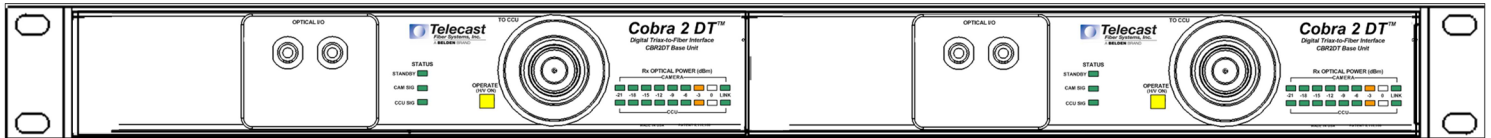
Typical Models

Model Number

Model Description

CBR2-S1-CA-MS-1-S2-F	Cobra2D, Model S1 (Sony HSC/HXC chains), Camera End, single Mussel Shell enc., fiber: 2 ST connectors, Fischer triax con.
CBR2-S1-BS-MS-1-S2-F	Cobra2D, Model S1 (Sony HSC/HXC chains), CCU end, single Mussel Shell enc., fiber: 2 ST connectors, Fischer triax con.
CBR2-S1-BS-RM-1-S2-F	Cobra2D, Model S1 (Sony HSC/HXC chains), CCU end, single 1 RU rack mount enc., fiber: 2 ST connectors, Fischer triax con.
CBR2-S1-BS-RM-2-S2-F	Cobra2D, Model S1 (Sony HSC/HXC chains), CCU end, dual CCU 1 RU rack mount enc., fiber: 2 ST connectors, Fischer triax con.

(change "-F" to "-K" for Kings triax connectors)



CCU transceiver in dual rack-mount enclosure

Specifications

Transmission

Data Rate.....	2.7Gb/s
Optical Source.....	Laser Diode
Fiber Type.....	Single Mode
Optical Output Power (typical).....	-7 dBm/0dBm
Optical Sensitivity (typical).....	>-20 dBm
Link Margin/ Distance (typical).....	20 dB/40 km (typ.)
Wavelength (from camera/to camera) 1-fiber version.....	1300/1550 nm
Input/Output Impedance.....	75 Ω
Available in 1-fiber or 2-fiber versions	

Mechanical/Environmental

Throw Down Mussel Shall: t(LxWxH).....	12" x 9" x 2.5"
1 RU Base Unit (single or double (LxWxH)).....	12" x 18" x 1.5"
Weight, Camera End.....	4.6 lbs
Weight, Base Station End (throwdown).....	3.6 lbs
Weight Base Station End (1RU unit): single/double.....	4 lbs/7 lbs

Connectors:

Triaxial connector.....	Kings Tri-Loc, Fischer, Damar Hagen
Optical.....	ST Single Mode (standard), ST(Single), ST(Dual), 304M(Dry), Neutrik OpticalCON, MX, LC
Input Voltage.....	100 VAC to 240 VAC
Output Voltage to Camera.....	DC
Standby.....	36VDC +/- 10%
Operate.....	180VDC +/- 10%
Triaxial range, Cobra to Camera, typical, CCU dependant.....	300 meters

Power Consumption :

Base Unit.....	<10 Watts
Camera Unit (excluding camera power).....	<30 Watts
Temperature Range, operating.....	-40 C to +55 C
Humidity Range.....	0 to 95% non-condensing



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Specifications subject to change without notice.

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