HARRIS

HARRIS TRIAX CABLE SYSTEM

- **Easily added to any TC-85 or TC-80 series camera in the field**
- **Extends range of camera operation up to 5,000 feet**
- **Maintains all operational features of Harris' TC-85/80 color cameras, including the ASU-85 computer setup unit**
- **Reduces camera cable costs for remotes**
- **Triax cable is easier to transport, install, repair and use on remotes**
- **Allows camera use in previously inconvenient locations for better coverage**

The Harris Triax Cable System provides versatility and flexibility for field operation of Harris' TC-85 and TC-80 cameras. Easily added, with no special tools or camera modifications, the Triax system eliminates bulky, multi-conductor camera cable, and greatly extends the camera's range of operation.

Careful development of the Triax system has allowed Harris to offer this modern camera convenience with all of the basic TC-85 and TC-80 cameras' fine automatic features. The Triax system itself is fully automatic and has no operational controls of any kind. The system automatically compensates for any change of Triax cable length.

Additional Triax advantages include a significant cost reduction in long cable runs. And, since the system operates with smaller cable, not only will there be less weight to carry, but the cable will take up less space in storage. There will also be sizeable cost reductions in permanent cable installations such as sports arenas, college campuses or industrial complexes.

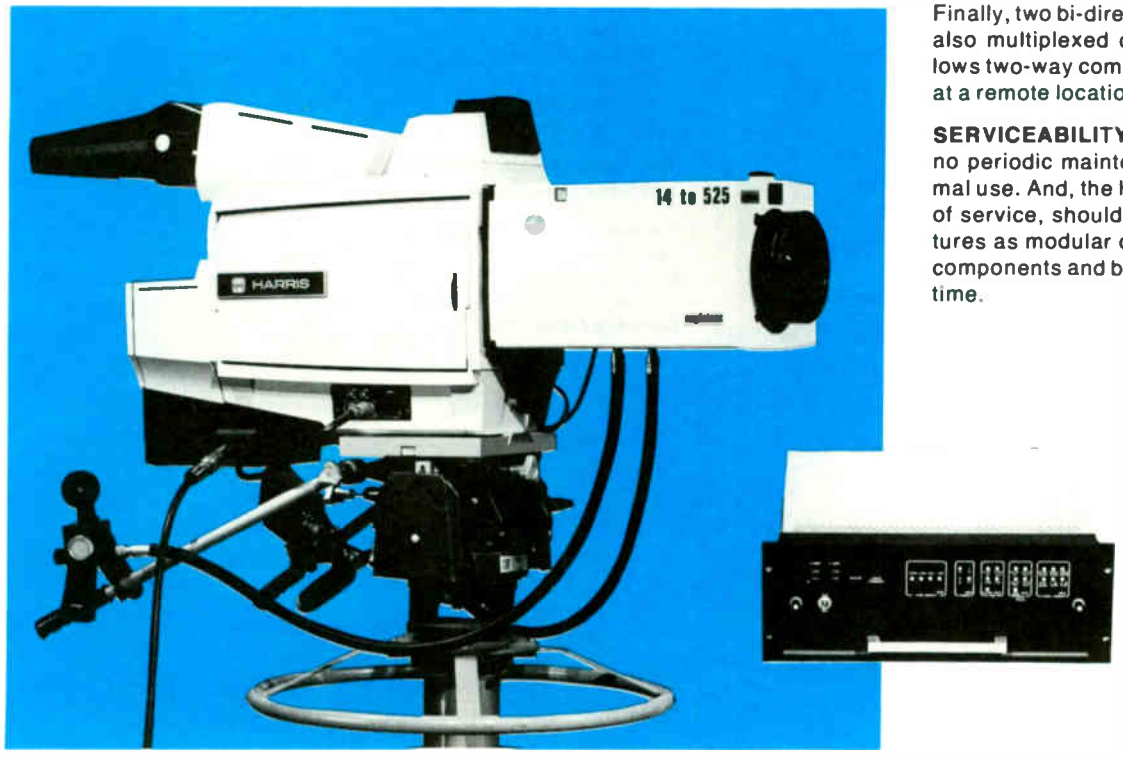
Harris' TC-85 and TC-80 cameras offer you proven triaxial operation as an option, without compromises in setup or operation—a significant advance in camera design.

OPERATION. The Harris Triax system multiplexes all the camera setup and operate controls from the camera control unit to the camera head. Viewfinder video is also multiplexed from the camera control unit to the camera head.

At the camera head, Red, Blue and Green video information is multiplexed to the camera control unit. Individual multiplexing of the Red, Blue and Green video produces independent R B G outputs at the camera control unit. This allows for clearer, sharper chroma keying.

Finally, two bi-directional channels of intercom are also multiplexed onto the triaxial cable. This allows two-way communication with the cameraman at a remote location.

SERVICEABILITY. The Harris Triax itself requires no periodic maintenance or adjustment with normal use. And, the Harris Triax is designed for ease of service, should service be required. Such features as modular construction, readily accessible components and built-in test points reduce service time.



Harris Triax camera control unit interface drawer

TYPICAL CABLE FOR USE WITH TRIAX SYSTEM

CABLE	OUTSIDE DIAMETER Inches	(mm)	TYPE	MANUFACTURER	JACKET	MAXIMUM CABLE LENGTH Feet	(Meters)	WEIGHT Per 1,000 ft. In lbs.	Per 100m (In kg)
TRIAX	0.36	(9.1)	9267 TV20	Belden B/W	Neoprene or Hypelon	2,000	(610)	74	(54)
	0.52	(13.2)	9232 TV14	Belden B/W	Neoprene or Hypelon	5,000	(1,524)	135	(98)
	1.03	(26.2)	— —	Belden B/W	Neoprene or Vinyl	7,700	(2,347)	550	(401)
MULTI-CONDUCTOR (Shown for comparison purposes only)	0.65	(17)	TV81 Mini	—	Vinyl	2,000	(610)	375	(273)
	1.1	(28)	TV81	—	Vinyl	3,000	(914)	875	(638)

HARRIS TRIAX SYSTEM SPECIFICATIONS

See the Harris TC-85 brochure for TC-85 camera specifications.

ELECTRICAL SCAN STANDARDS

EIA .....525/60.
CCIR .....625/50.

POWER REQUIREMENTS

Supplied by camera.

INPUTS AT CCU: Signals on 81 conductor cable connector and 14 pin triax accessory connector.

INPUTS AT HEAD: Signals on 81 conductor cable connector and 13 pin triax audio connector.

CHANNEL BANDWIDTH

GREEN VIDEO: 1 dB at 5 MHz.

RED VIDEO: 1 dB at 3 MHz.

BLUE VIDEO: 3 dB at 3 MHz.

VIEWFINDER VIDEO: 1 dB at 5 MHz.

OPERATING ENVIRONMENT

TEMPERATURE: Camera Head −20 to +50° C. Control Unit 0 to +50° C.

HUMIDITY: 0 to 95% RH, non-condensing.

ALTITUDE: 0 to 10,000 ft.

MECHANICAL

CAMERA HEAD: Height 12.5 in (31.8 cm). Width 9.1 in. (23.1 cm) excluding camera cable. Depth 12.8 in. (32.5 cm). Weight 17 lbs. (7.7 kg).

CCU: Height 5 in. (12.7 cm). Width 19 in. (48.3 cm). Depth 21 in. (53.3 cm). Weight 40 lbs. (18.1 kg).

CABLE AND CONNECTOR ORDERING INFORMATION

Triax cable may be ordered in standard lengths of:
50 feet (15.2 m)
100 feet (30.5 m)
250 feet (76.2 m)
500 feet (152.4 m)
1,000 feet (304.8 m)

The above include connectors. Triax cable may also be ordered in 1,000-foot (304.8 m) rolls, without connectors.

Connectors available include:
Connector, male
Connector, female
Connector, female bulkhead
Connector retro-fit kits

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