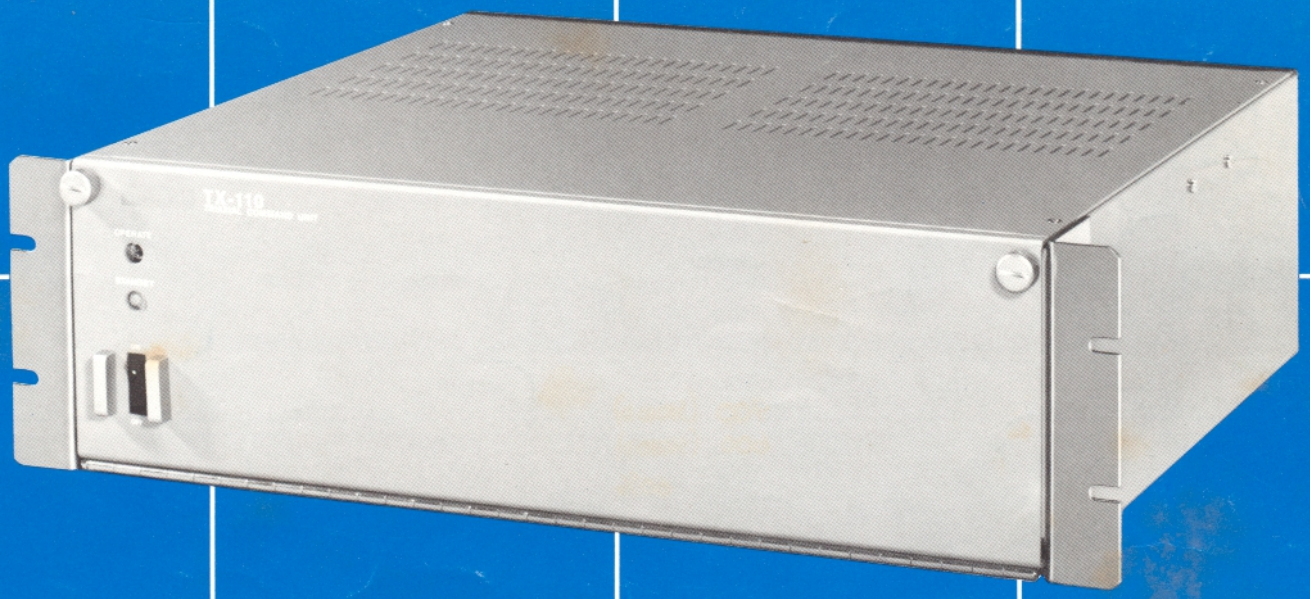
HITACHI
Hitachi Denshi, Ltd.

Hitachi Digital Command System

for The SK-110 Full-Auto Setup Camera

TX-110 and MU-110





Enhances Versatility for Field Applications

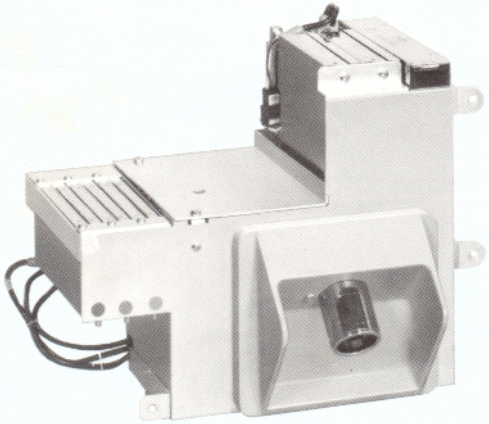
Hitachi Digital Command System, TX-110 and MU-110, provides full remote capabilities for the SK-110 full-auto setup studio color camera using a single triaxial cable by up to 1,500 meters (5,000 ft).

All the signals to be transmitted are frequency-modulated and multiplexed after each signal processing; video system signals directly, audio system signals and control data for camera setup after PCM (pulse code modulation). This process guarantees an excellent signal quality and a high signal-to-noise ratio both for the picture and sound signals, and also ensures a highly reliable control for full automatic and manual camera setup.

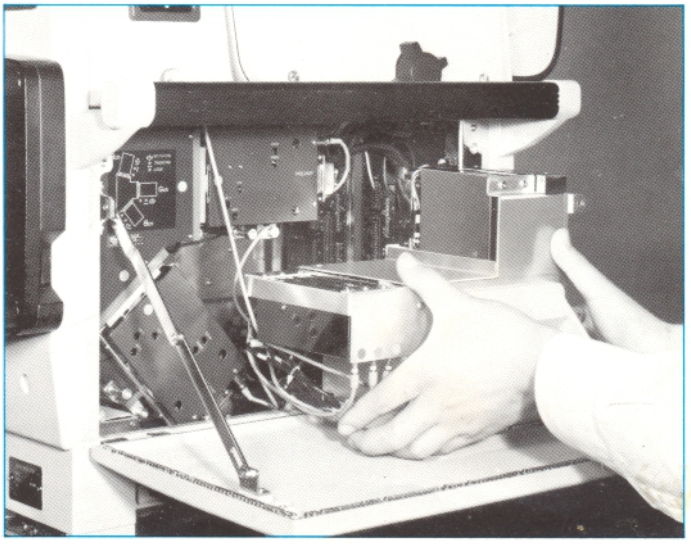
The system provides the same camera operational controls as using a multi-conductor camera cable.



Triaxial Command Unit TX-110

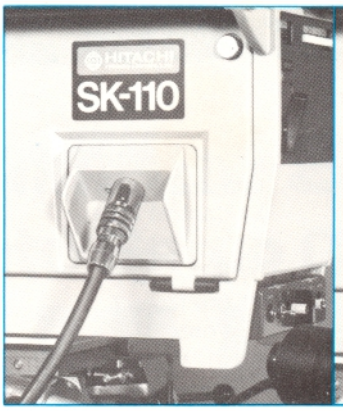


Camera Adaptor MU-110



Features

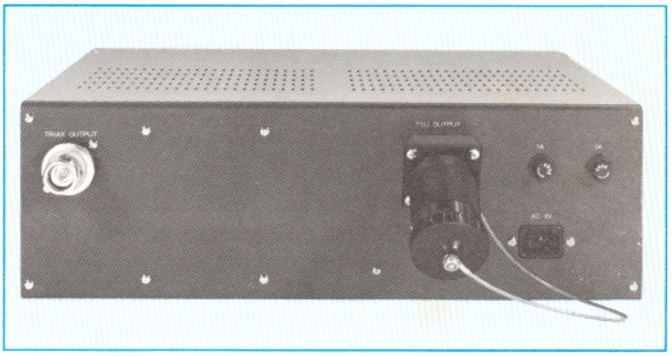
1. 1,500m Remote-controllable Distance
   The camera can be controlled at a distance of up to 1,500 meters (5,000 ft) when using a Felten 21 LS/10S triaxial cable or equivalent. AC power for the camera is also supplied through the cable.
2. Excellent Picture and Sound Quality
   By using FM transmission in the system, a picture quality of the R, G, B, VF and prompter video signals, and a sound quality of the program audio and intercom signals are excellent. Especially the system provides a high 57 dB signal-to-noise ratio for the G-channel video signal and 60 dB for the audio signal.
3. No Cable Compensations Needed
   Thanks to the FM multiplexing of the video signals and low power consumption of the camera head, no cable compensations are required.
4. Full Remote Setup Controls
   All the setup control modes featured in the SK-110 camera can be remotely controlled through a single triaxial cable from the setup control panel. These include full auto setup by the zero method, fault diagnosis, special effects by the data files, dynamic registration, etc.
5. Built-in Camera Adaptor
   Camera Adaptor, MU-110, with a small size and light weight can easily be built into the camera housing in place of the frame of the multi-conductor camera cable connector.



KINGS
Triaxial Connector



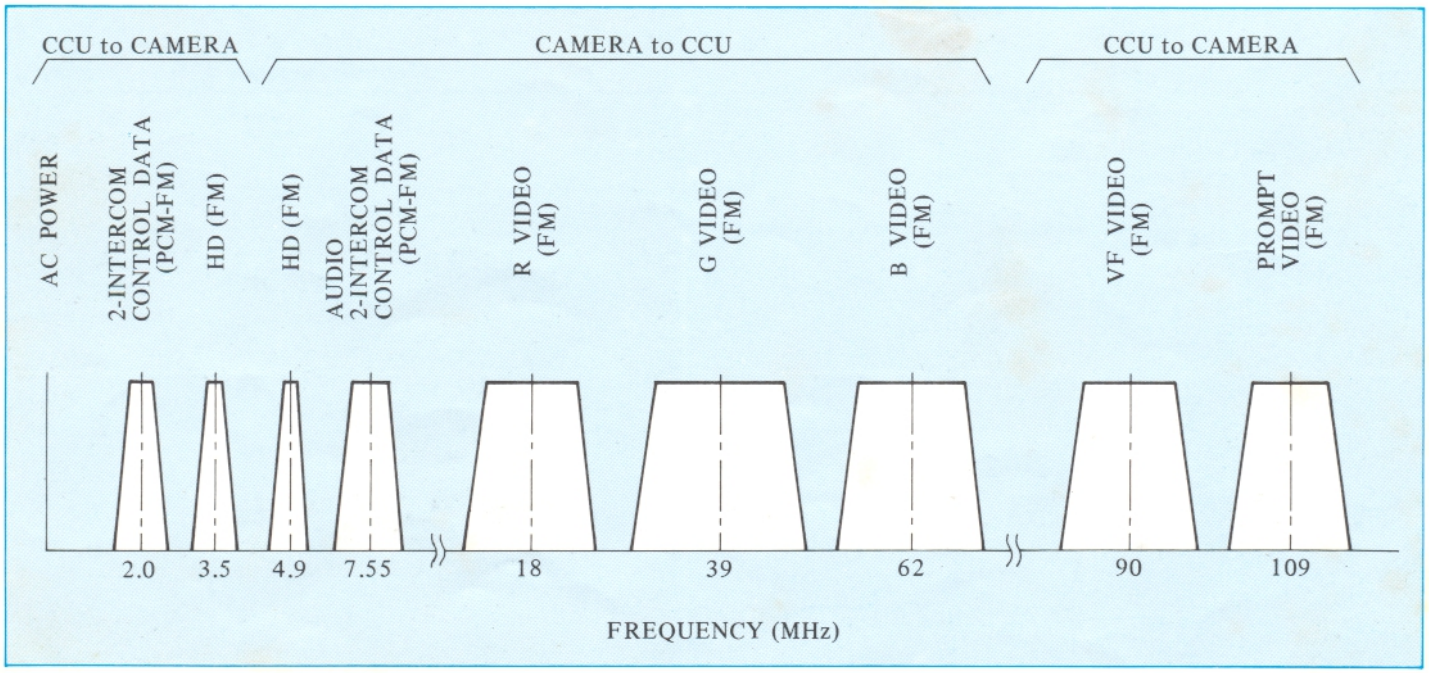
FISCHER
Triaxial Connector


Rear view of Triaxial Command Unit TX-110

Compositions

No.	Component	Type	Q'ty	Remarks
1	Triaxial Command Unit	TX-110	1	
2	Camera Adaptor	MU-110	1	
3	Extender Board		1	
4	AC Cable		1	
5	Camera Cable (1.5m)		1	
6	Triaxial Cable			Option
7	Spare Lamps & Fuses		1 set	
8	Instruction Manual		1	

Frequency Spectrum



Specifications

1. Signals from Camera to CCU

1) R Video
2) G Video
3) B Video
4) HD Pulse
5) Program Audio
6) Intercom-1
7) Intercom-2
8) Control Data

2. Signals from CCU to Camera

1) VF Video
2) Prompter Video
3) HD Pulse
4) VD Pulse
5) Intercom-1
6) Intercom-2
7) Control Data
8) AC Power

3. Power Requirements

1) AC Power Line : 100/117/220/240 V AC, 50/60Hz
2) AC High Voltage : Approx. 300 V AC, 50/60 Hz

4. Ambient Temperature

1) TX-110 −10 to +40°C (+14 to +104°F)
2) MU-110 −20 to +50°C (−4 to +122°F)

5. Signal-to-Noise Ratio

1) Video More than 57 dB for G-ch
2) Audio More than 60 dB

6. Dimensions and Weight

Unit		Height	Width	Depth	Weight	
TX-110	mm	133	424	380	kg	14
	in	5.2	16.7	15.0	℔	31
MU-110	mm	223*	189*	130	kg	3.5
	in	8.8	7.4	5.1	℔	7.7

* indicates max. dimensions, and actual volume is only 3,500 cm^3.

7. Maximum Usable Cable Length

Type	Dia. (mm)	Maker	Length (m/ft)
1.0S/4.5S	8.5	Felten	600/2,000
1.4S/6.6S	11.0	"	900/3,000
2.1LS/10S	14.4	"	1,500/5,000
9267	9.1	Belden	700/2,300
9232	13.2	"	1,200/4,000
4.8/1.0 EFTXF	8.6	Fujikura	700/2,300
9.6/2.22 EFTXF	14.5	"	1,500/5,000

Specifications are subject to change without notice.

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DB-E070 Printed in Japan (H) '82-2