

HITACHI

Component Triax System TU-Z3/CX-Z3 For The Z-3000/S-3000 Series Digital Color Cameras

TU-Z3/CX-Z3

The TU-Z3 triax system and Z-3000/S-3000 series camera are ideal for mobile or studio production. The TU-Z3 offers outstanding video quality and a maximum cable length of 1,500 meters. The FM transmission of the wide-band component, Y, P_b, and P_r, signals and digital transmission of the audio assure the highest quality possible. The TU-Z3 can use either AC or DC power, provides prompter video and two viewfinder returns. The optional serial digital component (D1) output and AC power for the prompter further enhance the TU-Z3's capabilities.



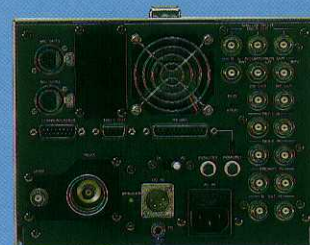
Z-3000/S-3000 Series



(RC-Z3 Option)
**Base Station Unit (Front side)
TU-Z3**



**Triax Adapter
CX-Z3**



**Base Station Unit (Back side)
TU-Z3**

Features

- **High quality video transmission**
The wide bandwidth of the Y (10MHz), Pb/Pr (5 MHz) and component FM transmission provide high-resolution video with a high S/N ratio. A digital comb filter is also provided to improve cross color artifacts in the video output.
- **Digital audio transmission**
To provide the highest quality microphone and intercom audio possible, bi-directional digital transmission is used between the camera head and base station for all audio signals and the control data.
- **Versatile intercom interface**
The intercom is RTS/Clear-Com compatible and is switch selectable for 2-wire, 4-wire and other intercom systems. At the camera, the operator can select the PD or ENG intercom channel.
- **Base station video outputs**
The base station provides: three encoder outputs, one set of RGB or Y, Pb, Pr outputs, one Pix monitor output and one waveform monitor output.

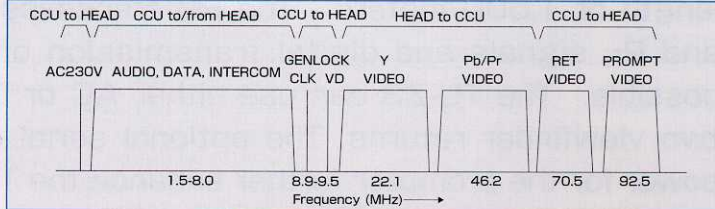
- **Base station video inputs**
Two return video inputs and one prompter video input are provided. The return video signal is selected at the camera head.
- **Digital video interface (optional)**
Two D1 serial digital outputs and two D1 serial digital inputs for return video are available as options.
- **AC/DC operation**
The base station provides for both AC and DC operation. DC operation allows the triax system to use less costly coaxial cable.
- **Half-rack base station**
The compact base station is a half rack wide and four rack units high. The flexible operational control panel (RC-Z3) can be mounted on the front panel of the base station or mounted in a desktop depending on the application.

Major specifications

TU-Z3 Base Station input and output signals

Input signals	Signal	Connector
GEN LOCK	BB, BNC	
RET	VS/VBS, BNC, 2 channels	
PROMPT	VS/VBS, BNC	
DIGITAL RET	D1, BNC, 2 channels, Specify on order	
INTERCOM	4W/2W D-SUB, 15pin	
PGM	D-SUB, 15pin	
R/G TALLY	D-SUB, 15pin	
REMOTE	2 channels, 4-pin	
Output signals	Signal	Connector
ENCR	VBS, BNC, 3 channels	
Pr/R	selectable, BNC	
Y/G	selectable, BNC	
Pb/B	selectable, BNC	
DIGITAL OUT	D1, BNC, 2 channels, Specify on order	
PIX (R,G,B, ENCR)	VS/VBS, BNC	
WFM (R,G,B, ENCR)	VS/VBS, BNC	
MIC	XLR-3pin, 2 channels	
INTERCOM	D-SUB, 15pin	
R/G TALLY	Contact supply, D-SUB, 9pin	
W/N CONTROL	Contact supply, D-SUB, 9pin	

Frequency Spectrum



Video bandwidth (Base band)

Y signal	10MHz
Pb, Pr signal	5MHz
RET signal	5MHz
PROMPT signal	5MHz

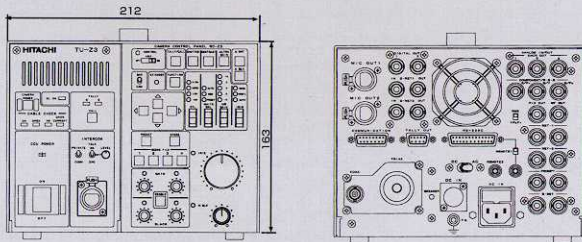
Power supply	TU-Z3/CX-Z3 : AC117V or 230V, 50/60Hz
Power consumption	130W approx. (Z-3000W, w/ GM-51, AC operation) 50W approx. (DC operation)
Ambient temperature	0 to +40 degrees C.
Dimensions	TU-Z3 : 212(W)×163(H)×381(D) mm CX-Z3 : 135(W)×196(H)×215(D) mm
Mass	TU-Z3 : 15kg approx. CX-Z3 : 2.5kg approx.

Maximum cable length

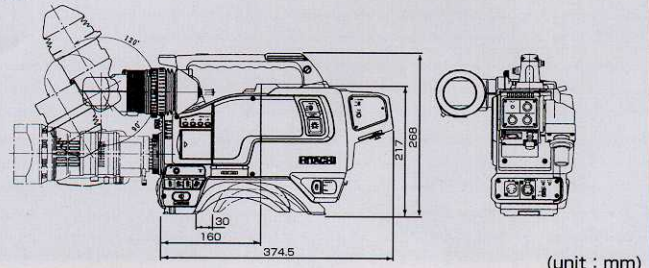
Kind of Triaxial Cable	Diameter(mm)	Manufacturer	Maximum cable length	
			w/ PROMPT (m)	w/o PROMPT (m)
4.8/1.0 EFTXF	8.6	Fujikura	930	1100
9.6/2.2 EFTXF	14.5	Fujikura	1500	1900
9267	9.1	BELDEN	720	910
9232	13.2	BELDEN	1200	1500
1.0S/4.5S	8.5	FELTEN	740	920
1.4S/6.6S	11.0	FELTEN	1100	1400

Dimensions

TU-Z3



CX-Z3



(unit : mm)

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● The specifications are subject to change without notice for improvement.