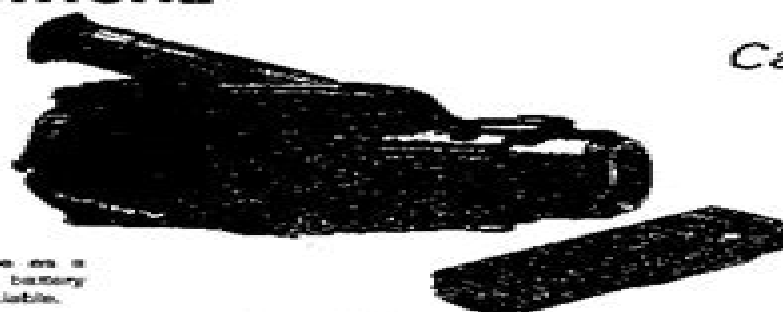


# CCD-FX300/FX310/FX311

RMT-509

## SERVICE MANUAL



Remote commander is available as a unit, but as individual parts the battery case lid of commander is only available.

*US Model*

CCD-FX310/FX311

*Canadian Model*

CCD-FX319

*E Model*

CCD-FX300

**Video8  
Handycam**

A MECHANISM

For MECHANISM ADJUSTMENTS, refer to the "8 mm VIDEO MECHANICAL ADJUSTMENT MANUAL IV" (9-973-199-11).

### SPECIFICATIONS

<b>System</b>	
Video recording system	Rotary head heads, helical scanning FM system
Audio recording system	Rotary head, FM system
Video signal	NTSC color, EIA standards
Video cassette	8 mm video format cassette
Tape speed	SP mode: Approx. 1.45 cm/sec (helical) LP mode: Approx. 0.73 cm/sec (helical)
Recording time	SP mode: 2 hours (PB-120)
Playback time	SP mode: 2 hours (PB-120) LP mode: 4 hours (PB-120)
Fast forward/reverse time	Approx. 8 min. 30 sec. (PB-120)
Image device	CCD (Charge Coupled Device)
Viewfinder	Electronic viewfinder (black and white)
Lens	Combined fisheye zoom lens 4.5:1 to 48:1 mm (7 1/2 to 1 1/4 inches) Approx. 44 to 332 mm (1 3/4 to 13 1/4 inches) converting into the focal length of a 35-mm still camera. F 1.6 with macro Filter diameter 37 mm (1 1/2 inches) TTL autofocus system (near focus wide mode system)

Color temperature	AUTO
Minimum illumination	2 lx
Illumination range	2 lx to 100,000 lx 10:1 to 9228 footcandle (lx)
Phase-locked auto focus	More than 100 ft. 30 footcandle
Aperture correction	Auto, etc. With fixed gain adjustment
<b>Input and output connector</b>	
Video output	Phono jack, 1 V <sub>o-p</sub> , 75 ohms unbalanced sync negative
Audio output	Phono jack Output: +7.5 dBm, full output impedance 37 ohms impedance less than 1 kilohm
RFL, DC, GND	Special mini-jack, 5 V/DC
Telephone jack	Mini-jack, 0 ohm impedance
Monitor 12 jack	Special mini-jack
M/C jack	Mini-jack, -60 dBm, no impedance with 2.5 to 2 V/DC output, impedance 50 kilohms
Microphone output jack	Special mini-jack, 5 V/DC

— Continued on next page —



**8 VIDEO CAMERA RECORDER**  
**SONY**

# Sony Ccd Fx310 Camcorder Manual

**Patrick Vollmar**



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