

**PART E**  
**SPECIFICATIONS**

## **PART E - SPECIFICATIONS**

### **GENERAL**

#### **E1. OVERVIEW**

E1.1 The Winnipeg Police Services is shifting its video productions format to Nonlinear disc media; that provides for thumbnail-based access to material straight from the optical disc, and the use of Proxy AV Data.

#### **E2. GENERAL**

E2.1 These Specifications shall apply to the Work.

#### **E3. GOODS**

E3.1 The Contractor shall supply and deliver an optical disc camcorder (Model PDW-501) and related peripherals accordance with the requirements hereinafter specified.

E3.2 Item No. 1 – Sony Optical Disc Camcorder (PDW 510) shall be in accordance with E6.

E3.3 Item No. 2 – Canon Wide Angle Lens J17ax7.7B IRSD/IASD shall be in accordance with E7.

E3.4 Item No. 3 – Sony Lithium Battery (BPIL75) shall be in accordance with E8.

E3.5 Item No. 4 – Sony Battery Charger (ACDN2B) shall be in accordance with E9.

E3.6 Item No. 5 – Porta –Brace Padded Carry Bag (COAVM) shall be in accordance with E10.

E3.7 Item No. 6 – Sony Professional Disc (PFD23) shall be in accordance with E11.

#### **E4. RENTAL OF MEDIA EDITOR (PDW 1500)**

E4.1 Rental of the media editor shall be for ten (10) business days.

E4.2 Precise dates for the media editor rental shall be determined between the Contract Administrator and the Contractor, after the award is made

E4.3 The Contractor shall supply and deliver the media editor deck within 5 business days of request.

E4.3.1 Access to the media editor deck shall be made available for the period of six (6) months from the date of award.

E4.4 Delivery of the media editor shall be made to:

Diane Bain  
Storekeeper 4  
Winnipeg Police Services  
Quartermaster Stores Unit  
4<sup>th</sup> Floor 151 Princess Street

#### **E5. DELIVERY OF PDW510 AND RELATED PERIPHERALS**

E5.1 Goods shall be delivered FOB destination, freight prepaid, to:

Diane Bain  
Storekeeper 4  
Winnipeg Police Services

Quartermaster Stores Unit  
4<sup>th</sup> Floor 151 Princess Street

## E6. SONY OPTICAL DISC CAMCORDER (PDW 510)

- 16:9/4:3 Switchable Power HAD EX x 3CCDs (1M pixel CCD)
- DVCAM recording with 1 optical filter wheel
- Compact & Lightweight Body
- 2.5-inch type Color LCD Screen
- Shock- and Dust-Resistant Disc Drive
- AV + IT Connection (SDI, Composite, 4x Analog Audio, 4x AES/EBU, i-LINK)
- Optional PCM-CIA card adaptor for Ethernet connection
- Thumbnail Search & Scene Selection Operation
- 40pin/Remote/i-LINK interefaces for CA-701/702/755, RM-B150/B750, WRR-855A/B, DSR-DU1 and WLL-CA50
  - Feature
  - Benefit
- 16:9/4:3 Switchable Power HAD EX CCDs
- PDW-510 incorporate three 16:9/4:3 switchable CCDs for its image capture device, with a high signal-to-noise ratio of 65dB (NTSC)/63dB (PAL), lower smear level of -140dB (typical), high sensitivity of F11 and a high integrity 12-bit A/D converter.
  - Compact, Lightweight Body with Shock- and Dust-Resistant Disc Drive
  - PDW-510 weigh approximately 5.3 kg (11lb 10oz) including viewfinder, microphone, disc and BP-IL75 battery pack. Also, to minimize errors caused by shock or dust entering the disc drive, disc drive portion is concealed by two lids helping to prevent any dust from entering the drive. In addition, four rubber dampers are used to hold the disc drive block in place helping to absorb the shock that would otherwise go into the drive.
  - Loop Recording
    - Loop Recording is a convenient function whereby up to 10 seconds of audio and video signals are buffered into memory even before the Rec button is pressed.
    - Progressive Mode
      - Provides progressive modes to offer a film-like shutter effect: 29.97-frame or optional 23.976-frame as well as 25-frame.
      - Thumbnail Search and Scene Selection
    - 2.5-inch color LCD screen provided on the camcorder side panel enables thumbnail search and scene selection functionalities. They enable quick random access to each clip and creating a scene selection list, PDW-510 playback the selected clips seamlessly according to the list.
    - Proxy AV
      - PDW-510 creates and store low-resolution audio & video into disc media along with high-resolution audio & video recording. Proxy AV can allow the speedy operation in field, faster transfer over network from field to the base.
      - Network Connectivity
        - In addition to conventional AV interfaces, PDW-510 provides i-LINK interface as well as optional PCM-CIA card adaptor for Ethernet connectivity. They enable to hook up with external PC, and provide high speed file transfer (up to 30x for proxy AV file, up to 2.5x for DVCAM file, up to 1.5x for MPEG IMX 50Mbps file), as well as e-Support.

**E7. CANON WIDE ANGLE LENS J17ax7.7b IRSD/IASD**

The J17ax7.7B featuring the new breakthrough technology.

Canon has developed breakthrough optical design concept using a newly developed optical element in the most effective way. We have named the new design concept the "Power Optical System" which can achieve higher specifications and quality in smaller size and lighter weight, using the new optical "X-Element" which realize complete elimination of its aberration.

Canon 16x9/4x3 crossover system for switchable cameras is available as an option (WRS/WAS).

<b>Zoom Ratio:</b>	<b>17X</b>	
<b>Range of Focal</b>	1.0x	7.7-131mm
<b>Length</b>	2.0x	15.4-262mm
<b>Maximum Relative Aperture</b>		
	1.0x	1: 1.8 at 7.7-102.5mm 1: 2.3 at 131mm
	2.0x	1: 3.6 at 15.4-205mm 1: 4.6 at 262mm
<b>Angular Field of View</b>		
	1.0x	59.5° x 46.4° at 7.7mm 3.85° x 2.89° at 131mm
	2.0x	31.9° x 24.2° at 15.4mm 1.92° x 1.44° at 262mm
<b>Minimum Object Distance M.O.D. 0.6m (50mm with Macro)</b>		
<b>Object Dimensions at M.O.D.</b>	1.0x	63.1 x 47.3cm at 7.7mm 3.8 x 2.9cm at 131mm
	2.0x	31.6 x 23.7cm at 15.4mm 1.9 x 1.5cm at 262mm
<b>Size (IRS/IAS/VRS/VAS)</b>	151 x 99.5 x 197.4mm	
<b>Weight (Approx.)</b>	IRS/VRS	1.43kg (3.15lbs)
	IAS/VAS	1.53kg (3.37lbs)

## **E8. SONY LITHIUM BATTERY (BPIL75)**

- Type of battery: Rechargeable lithium-ion battery
- Maximum voltage: 16.8 V
- Nominal voltage: 14.4 V
- Cell capacity: 77.8 Wh
- Current capacity: 5.4 Ah
- Operating temperature (for discharge): -20°C to +45°C (-4°F to +113°F)
- Dimensions: 101.0 (W) x 168.7 (H) x 37.0 (D) mm
- Mass: 900 g (1 lb 15 oz)

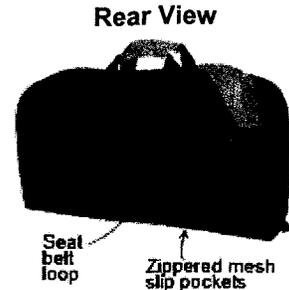
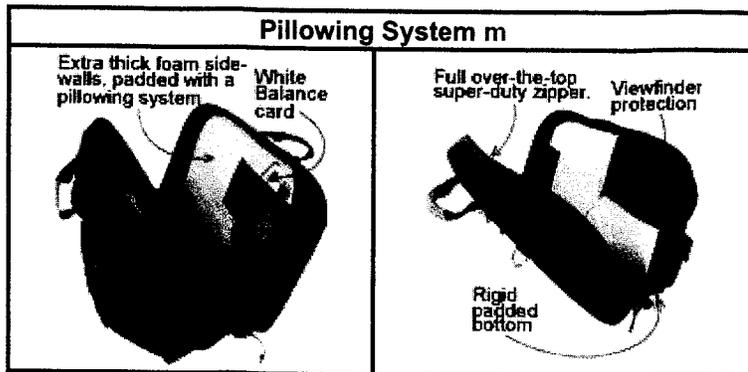
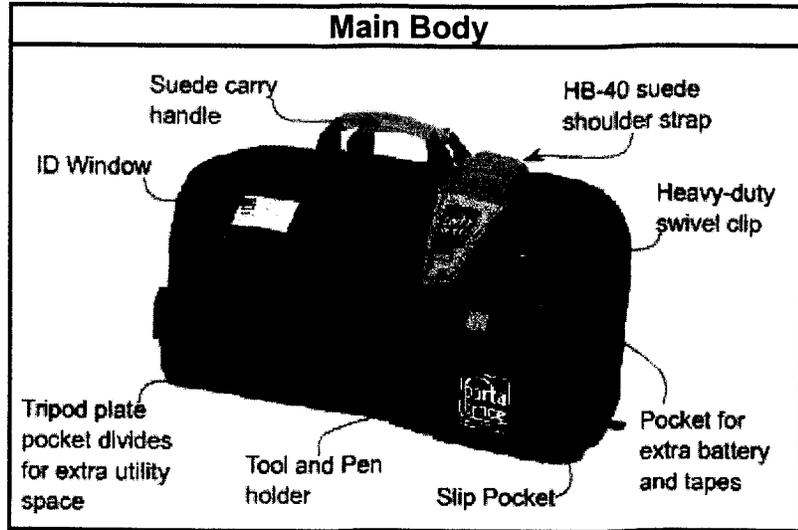
## **E9. SONY BATTERY CHARGER (ACDN2B)**

- Power requirements:
- AC 100 to 240 V
- Rated power output (DC):
- 150 W
- Voltage output (DC):
- 16.7 V
- Current output (DC):
- 9 A (on regulation)
- Mass:
- 950 g (2 lb 2 oz)
- Dimensions:
- 101(W) × 169(H) × 70(D)mm
- (4 x 6 3/4 x 2 7/8 inches)
- Charging time:
- BP-L60A:
- 4 h (to about 85% capacity)
- BP-L90A:
- 6 h (to about 85% capacity)

### E10. PORTA-BRACE PADDED CARRY BAG

#### DETAILS ON THE CARRY-ON CAMERA CASE

This compact, lightweight camera case is designed with an interior pillowing system for cushioning the camera. It weighs about 6 pounds and comes with a heavy-duty, HB-40 shoulder strap. The **Carry-on** is available in 6 sizes to insure proper fit. The 1000 denier Cordura® shell provides foul-weather protection. It has a reinforced viewfinder protector,, ample pockets for tapes, batteries, earphones, white balance card (included) and tripod plate and more .



## **E11. SONY PROFESSIONAL DISC (PFD23)**

- Storage capacity: 23.3 GB
- Laser wavelength: 405 nm (blue-violet)
- Data transfer (writing) rate: 72 Mb/s (per optical head)
- Disc diameter: 120 mm (4 5/8 inches)
- Cartridge dimensions: 129 (W) x 131 (H) x 9 (D) mm  
(5 1/8 x 5 1/4 x 3/8 inches)
- Mass: 90 g (3 oz)
- Recording format: Phase change recording