

Memo

To: Honorable Mayor and City Council
From: Joe Kohlmann, City Administrator
Date: February 25, 2014
Re: WNAV – Videotaping Council Meetings

Staff received a revised quote from WNAV reflecting the verbal changes reviewed at the last City Council Meeting. Staff had WNAV provide an assessment of the proposed camera and necessary equipment to film City Council Meetings. After reviewing the proposed camera and equipment (camera is a Canon XA20 for \$1,999), it was determined that two SD cards would need to be used in order to have appropriate recording time.

Staff has discussed developing a service agreement to enter into with WNAV. After discussion, there were many issues that seemed to indicate developing a service agreement could be very expensive and it would be difficult to determine every possible issue (streaming formatting; certification of video integrity; etc.).

Staff ultimately decided to bring the updated proposal for the City Council to consider.

Council Action Requested:

Motion to direct the City Administrator to retain WNAV for videotaping services, prepare a formal service agreement for Council consideration, or other action.

Joe Kohlmann

From: Mark Stowman <mark@wnav-video.com>
Sent: Wednesday, February 19, 2014 11:35 AM
To: jkohlmann@cityoftonkabay.net
Subject: Estimate 3694 from WNAV INC
Attachments: Est_3694_from_WNAV_INC_3348.pdf

Follow Up Flag: Follow up
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Hello Joe,

It was a pleasure to meet with you yesterday! Here is the revised estimate. I have removed the camera charge, increased the SD card to 16GB and changed the technician to a 4 hour call time. Please let me know if there is anything else I can do. I will also send you information on the costs of the cabling to run the record feed to the camera.

Thank You!
Mark Stowan
WNAV Audio Visual
952-853-2270

WNAV INC

801 AMERICAN BLVD E STE 200
 BLOOMINGTON MN 55420

Estimate

Date	Estimate #
1/16/2014	3694

Name / Address
ATTN: JOE KOHLMANN-ADMINISTRATOR CITY OF TONKA BAY 4901 MANITOU ROAD TONKA BAY MN 55331

Project
City of Tonka Bay 2...

Description	Qty	Rate	Total
VIDEOTAPING & PRODUCTION FOR BI-MONTHLY CITY COUNCIL MEETINGS JANUARY THROUGH DECEMBER 2014 CITY OF TONKA BAY AUDIO VISUAL SUPPORT SERVICES - VIDEOTAPING OF CITY COUNCIL MEETINGS - CREATE VIDEO STREAMING FILES OF RECORDING SUITABLE FOR WEB STREAMING EQUIPMENT & TECHNICIAN Sandisk Extreme 16GB Class 10 SD Card (Videotaping is recorded onto the SD card) 1 30.00 30.00T Professional Camera Operator (Includes Set Up 30 minutes prior to start of meeting & up to 4 hours of technician time) 4 39.00 156.00 *Cables to get audio record feed from existing sound equipment included PRODUCTION Video Production: Capture and convert video file(s) to "Streaming" format for use on the internet 90.00 90.00T THANK YOU! Mark Stowman - President and AV Production Manager WNAV Audio Visual 952-853-2270			

Thank You !	Subtotal	\$276.00
	Sales Tax (7.275%)	\$8.73
	Total	\$284.73

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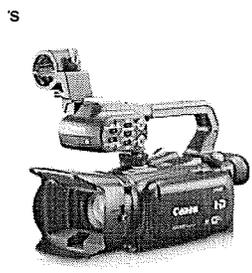
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About XA20

Item Code: 8453B002 Estimated Retail Price: \$2,499.00*

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Specifications

Main Unit Specs

Standard Definition or High Definition	High Definition
Power Supply (rated)	7.4 V DC (battery pack), 8.4 V DC (DC IN)
Television System	NTSC
Video Recording system	MPEG4-AVC / H.264
Audio Recording system	Linear PCM (2ch) * / Dolby Digital (5.1ch when SM-V1 is used) * Feature supported only in the 28 Mbps/23.98 Mbps recording mode; resolution: 16 bits
Image Sensor	1/2.84-inch CMOS, RGB Primary Color Filter
Total Pixels	Approx. 3.09 Megapixels (2208 x 1398)
Effective Pixels	Approx. 2.91 Megapixels (2136 x 1362)
Lens	Zoom Ratio: 20x Optical / 400x Digital
	Focal Length: 3.67-73.4mm (35mm equivalent: 28.8-576mm without Dynamic IS; 28.8-576mm with Dynamic IS)
	Zoom Speed: Variable speed / Constant speed (16 levels); Fast, Normal or Slow
	Max. F/Stop: f/1.8-2.8
Focusing System	Hybrid AF (TTL-video detection system and external phase difference metering system): Instant AF, Medium AF; Normal AF (TTL-video detection system); Face Priority AF; Face Only AF; Manual Focus
Manual Exposure	Available
Programmed AE	Smart Auto, P, Tv, Av, M (Manual exposure), SCN (Portrait, Sports, Night, Snow, Beach, Sunset, Low Light, Spotlight, Fireworks) Cinema Mode: P, Tv, Av, M
Max Shutter Speed	Movie: 1/2000 sec.

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Minimum Focusing Distance	20mm (wide end) / 60cm (across the entire zooming range)
White Balance	Auto, Set 1, Set 2, Color Temperature (2,000K to 15,000K in 100K increments), Daylight, Shade, Cloudy, Tungsten, Fluorescent, Fluorescent H
Frame Rate	NTSC: AVCHD - 1080: 59.94P / 59.94i / PF29.97 / 23.98P MP4 - 1080: 59.94P / 29.97P / 23.98P; 720 and 360: 29.97P / 23.98P
Minimum Illumination	1.2 lux Low Light Mode: Approx. 0.1 lux (shutter speed 1/2 sec.)
Genlock Terminal	Not available
HD/SD-SDI Terminal	Not available
Image Stabilization	Dynamic SuperRange Optical System (Lens shift), Standard SuperRange Optical System (Lens shift), and electronic stabilization Following modes are available: Intelligent IS (AUTO mode), Dynamic IS, Powered IS, Macro IS, Tripod Mode IS Modes other than Intelligent IS: Standard IS, IS Off
Filter Diameter	58mm
Viewfinder	0.24-inch, TFT Widescreen color LCD (Equivalent to approx. 1.56 million dots; approx. 100% field of view)
LCD Screen	3.5-inch OLED, Capacitive Touch Panel (Approx. 1.23 million dots)
Recording Media	2 SD/SDHC/SDXC memory card slots
USB Terminal	mini-B receptacle and Hi-Speed USB supported (output only)
Video Terminal	Composite: A/V terminal 3.5mm mini-jack, output only
Audio Terminal	XLR 3-pin jack (2ch), MIC/LINE switch possible (input only)
Accessory Shoe	Cold Shoe
HDMI Terminal	HDMI OUT mini connector
Microphone Terminal	3.5mm stereo mini-jack
AV Mini Terminal/Headphone Terminal	3.5mm 4-pole mini-jack (video/audio output only)
Headphone Terminal	3.5mm stereo mini-jack
Remote Control Terminal	2.5mm stereo mini jack (input only)
Operating Temperature range	23° to 113°F (-5° to 45°C) 60% relative humidity (operation) / 32° to 104°F (0° to 40°C) 85% relative humidity (performance)
Dimensions	(W x H x D) 4.3 x 3.3 x 7.2 in. / 109 x 84 x 182mm (Not including lens hood, grip belt, microphone holder and handle unit)
Weight	Approx. 1.7 lb. / 765g (includes grip belt)

Maximum Recording Time

AVCHD		Recording Mode			
Memory Card	28 Mbps	24 Mbps	17 Mbps	5 Mbps	
8GB	35 min.	40 min.	1 hr. 00 min.	3 hrs. 00 min.	
16GB	1 hr. 15 min.	1 hr. 25 min.	2 hrs. 05 min.	6 hrs. 05 min.	
32GB	2 hrs. 30 min.	2 hrs. 55 min.	4 hrs. 10 min.	12 hrs. 15 min.	
64GB	5 hrs. 05 min.	5 hrs. 55 min.	8 hrs. 20 min.	24 hrs. 30 min.	
128GB	10 hrs. 10 min.	11 hrs. 55 min.	16 hrs. 45 min.	49 hrs. 00 min.	

MP4		Recording Mode			
Memory Card	35 Mbps	24 Mbps	17 Mbps	4 Mbps	3 Mbps
8GB	30 min.	40 min.	1 hr. 00 min.	4 hrs. 20 min.	5 hrs. 40 min.
16GB	1 hr. 00 min.	1 hr. 25 min.	2 hrs. 05 min.	8 hrs. 40 min.	11 hrs. 25 min.
32GB	2 hrs. 00 min.	2 hrs. 55 min.	4 hrs. 10 min.	17 hrs. 20 min.	22 hrs. 55 min.
64GB	4 hrs. 00 min.	5 hrs. 55 min.	8 hrs. 20 min.	34 hrs. 45 min.	45 hrs. 55 min.
128GB	8 hrs. 00 min.	11 hrs. 55 min.	16 hrs. 45 min.	69 hrs. 30 min.	91 hrs. 55 min.

* Recording time based on internal flash memory only. Greater capacity is possible when SD memory cards are also used (2 card slots).
 ** 1920 x 1080 movie recording requires a Class 4 or higher memory card. For other recording formats, a Class 2 or higher card is recommended. Also, movie recording requires cards with 128MB

of memory or more. Cards made by Toshiba, SanDisk or Matsushita are recommended. No particular restrictions apply for still images.

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† Prices and specifications subject to change without notice. Actual prices are determined by individual dealers and may vary.

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