








# BATAAN PENINSULA STATE UNIVERSITY






TITLE: CONSTRUCTION OF GRADUATE STUDIES BUILDING TO ARTS & SCIENCE BUILDING II (PHASE 1)

BILL OF MATERIALS : LABORATORY EQUIPMENT & FACILITIES

LOCATION: BATAAN PENINSULA STATE UNIVERSITY ( MAIN CAMPUS -GS BUILDING )

## LABORATORY EQUIPMENT (MINI-THEATER)

ACTUAL PHOTOS	UNIT PRICE	QUANTITY	TOTAL AMOUNT	DESCRIPTION
		4	-	ACU- 3 .0HP AIR CONDITIONING UNIT, NON-INVERTER
		1	-	ACU- 1.0HP AIR CONDITIONING UNIT, INVERTER TYPE
		1	-	12 CHANNEL PROFESSIONAL MIXER, MIC + LINE INPUT,EQ & EFFECT, MP3 RECORD AND PLAY via USB/ BLUETOOTH, PC SOUND CARD, XLR-PL COMBO, 12 CHANNEL
		6	-	Ceiling and Wall Mount Speaker - 6.5" 2-Way 70V Audio Stereo Sound Subwoofer Sound with Dome Tweeter, 500 Watts, in-Wall & in-Ceiling Flush Mount for Home Surround System - Pyle PDIC6LT (White)
		1	-	450W Multi Zone Mixing Amplifier 450W Multit Zone Mixing Amplifier 4-16 Ohms with 70 & 100V Line Output USB/SD/FM function 2 Aux Input 4 Microphones Input Gain for Mic, Aux & USB 5-Zone speaker selector + 10 standby Zone Chime function

		1	-	ONE RACK SPACE, TWO CHANNEL MAIN STATION WITH A REGULATED 1.2 AMP "FAIL SAFE" POWER SUPPLY, INDIVIDUAL CHANNEL SHORT-CIRCUIT COMMUNICATION
		2	-	<p>PROFESSIONAL STUDIO MONITOR HEAD PHONES (BLACK)</p> <p>Critically acclaimed sonic performance praised by top audio engineers and pro audio reviewers. Proprietary 45 mm large-aperture drivers with rare earth magnets and copper-clad aluminum wire voice coils, 90° swiveling earcups for easy, one-ear monitoring, Professional-grade earpad and headband material delivers more durability and comfort, Collapsible for space-saving portability, Detachable cables (includes 1.2 m - 3.0 m coiled cable, 3.0 m straight cable and 1.2 m straight cable), Top choice for studio tracking and mixing, as well as DJ monitoring and personal listening</p>
		4	-	<p>WALL MOUNT SPEAKER (PAIR)</p> <p>2 WAY 8" WALL MOUNT SPEAKER w/ 70v (All Weather ) PAIR</p>
		2	-	<p>HD SOUND PROSSIONAL RECORDER W/ 32 GB MEMORY CARD &amp; RECHARGEABLE BATTERY</p> <p>2-Track Portable Handy Recorder with Onboard X/Y Microphone (Black)</p>
		3	-	3G/ ANALOG TO SDI CONVERTER



#### PROFESSIONAL CAMCORDER 4K (QFHD & HD)

Approx 955 g (with lens hood, eyecup)  
Approx. 2 lb 1.7 oz (with lens hood, eyecup)  
Approx. 1320g (with lens hood, handle, eyecup, NP-FV70A battery)  
Approx. 2lb 14.6oz (with lens hood, handle, eyecup, NP-FV70A battery)

121.0mm×104.0mm×274.5mm (With the accessories (lens hood, large eyecup) ,excluding the grip belt and including the projecting parts)  
4 7/8 x 4 1/8 x 10 7/8 inches (With the accessories (lens hood, large eyecup) , excluding the grip belt and including the projecting parts)  
130.0x181.5x287.0 mm (With the accessories (lens hood, large eyecup, XLR handle unit) , excluding the grip belt and including the projecting parts)  
5 1/8 x 7 1/4 x 11 3/8 inches (With the accessories (lens hood, large eyecup, XLR handle unit) , excluding the grip belt and including the projecting parts)

DC In: 8.4V  
Battery: 7.4V

Approx. 5.7 W (while recording with viewfinder and XAVC S 4K 2160/30p 60Mbps)  
Approx. 6.1 W (while recording with LCD and XAVC S 4K 2160/30p 60Mbps)

0°C to 40°C  
32°F to 104°F

Approx. 155min. with NP-FV70A battery  
(while recording with LCD, XAVCS 4K 2160/30p, 60Mbps)


Approx. 265 min. with NP-FV70A battery  
(while playing with LCD, XAVCS 4K 2160/30p, 60Mbps)

XAVC S 4K : MPEG-4 AVC/  
H.264 4:2:0 Long profile

XAVC S HD : MPEG-4 AVC/  
H.264 4:2:0 Long profile




XAVC S Proxy: MPEG-4 AVC/H.264 4:2:0 Long profile  
AVCHD : MPEG-4 AVC/H.264 AVCHD 2.0 format compatible





XAVC S 4K : Linear PCM 2ch 16bit, 48kHz  
XAVC S HD : Linear PCM 2ch, 16bit, 48kHz  
XAVC S Proxy : Linear PCM 2ch, 16bit, 48kHz  
AVCHD : Linear PCM 2ch, 16bit, 48kHz / Dolby Digital 2ch, 16bit, 48kHz



				<p> XAVC S 4K (3840 x 2160) @29.97p, 25p, 23.98p  100Mbps/60Mbps  XAVC S HD (1920 x 1080) @120p, 100p  100Mbps/60Mbps  XAVC S HD (1920 x 1080) @59.94p, 50p 50/25Mbps  XAVC S HD (1920 x 1080) @29.97p, 25p 50/16Mbps  XAVC S HD (1920 x 1080) @23.98p 50Mbps  XAVC S Proxy (1280 x 720) @59.94p, 50p, 29.97p, 25p,  23.98p 9Mbps  XAVC S Proxy (1280 x 720) @59.94p, 50p, 29.97p, 25p,  23.98p 3Mbps  AVCHD (1920 x 1080)@59.94p, 50p, PS mode (28  Mbps)  AVCHD (1920 x 1080) @59.94i/50i FX mode (24 Mbps)  FH mode(17 Mbps)  AVCHD (1920 x 1080) @29.97p/25p/23.98p, FX mode  (24 Mbps)  AVCHD (1440 x 1080) @59.94i, 50i LP mode (5Mbps)  AVCHD (1280 x 720) @59.94p, 50p, HQ mode (9 Mbps) </p> <p> XAVC S 4K, HD @LPCM 2ch 100 Mbps  Approx. 75 min with 64 GB memory card  XAVC S 4K, HD @LPCM 2ch 60 Mbps  Approx. 125 min with 64 GB memory card  XAVC S HD @LPCM 2ch 50 Mbps  Approx. 150 min with 64 GB memory card  XAVC S HD @LPCM 2ch 25 Mbps  Approx. 300 min with 64 GB memory card  XAVC S HD @LPCM 2ch 16 Mbps  Approx. 465 min with 64 GB memory card  AVCHD @LPCM 2ch PS Mode  Approx. 305 min with 64 GB memory card  AVCHD @LPCM 2ch FX Mode  Approx. 360 min with 64 GB memory card  AVCHD @LPCM 2ch FH Mode  Approx. 495 min with 64 GB memory card  AVCHD @LPCM 2ch HQ Mode  Approx. 880 min with 64 GB memory card </p>
				<p> AVCHD @LPCM 2ch LP Mode  Approx. 1540 min with 64 GB memory card </p>

		1	-	<p>Fluid Video Head Flat Base with 190X Video Alu Tripod</p> <p>New hybrid 190 tripod for video, 500 video head flat base for greater versatility, Single leg, 3 section alu tripod with levelling column, Easy link connectors for external accessories</p>
		1	-	<p>PROFESSIONAL CONDENSER SHOTGUN MICROPHONE W/ XLR CABLE</p> <p><b>Super-Cardioid Polar Pattern</b> The super-cardioid polar pattern and line gradient acoustic principle allow for a narrow pick up pattern at the front of the capsule while minimizing noise at the off-axis sections.</p> <p><b>Lightweight Durable Construction</b> The NTG1 features a lightweight metal housing that is ideal for camera mounting.</p> <p><b>Low Handling Noise</b> Low noise output electronics provides high signal-to-noise ratio. The NTG1 is designed to also reduce noise caused by handling, rigid mounting hardware, loose cabling etc.</p>
		3	-	<p>30M SHIELDED HIGHSPEED HDMI TO HDMI CABLE</p> <p>Transfers at speeds up to 10.2 Gbps Supports 480i, 480p, 720p, 1080i, 1080p resolution Gold plated 19 pin HDMI connectors; oxygen-free copper cable PVC jacket with high visibility nylon braiding HDCP compliant, Meets all HDMI standards Compatible with high-speed HDMI specification version 1.3b Dolby True HD and DTS-HD master audio bitstream capable Protects against RF and EM interference</p>
<p>10M</p> 		3	-	<p>10M SHIELDED HIGHSPEED HDMI TO HDMI CABLE</p> <p>Transfers at speeds up to 10.2 Gbps Supports 480i, 480p, 720p, 1080i, 1080p resolution Gold plated 19 pin HDMI connectors; oxygen-free copper cable PVC jacket with high visibility nylon braiding HDCP compliant, Meets all HDMI standards Compatible with high-speed HDMI specification version 1.3b Dolby True HD and DTS-HD master audio bitstream capable Protects against RF and EM interference</p>
		1	-	<p>Wireless Microphone and Lapel set Vocal Set</p> <p>UHF Professional Wireless Microphone System 4 Channel with Fixed Frequency All metal rugged construction Frequency Response: A: 724.9MHz 753.4MHz B 739.4MHz 763.4MHz 200 meters in best condition, 80 meters in normal condition</p>




## LIGHTING SYSTEM



<p style="text-align: center;">Size</p> 		2	-	<p style="text-align: center;">LIGHT MIXER</p> <p style="text-align: center;">Main Features:</p> <ul style="list-style-type: none"> <li>• High efficiency, low energy consumption</li> <li>• Stable working performance</li> <li>• Easy to set up and use</li> <li>• 192 DMX channels</li> <li>• 12 scanners of 16 channels each</li> <li>• 23 banks of 8 programmable scenes</li> <li>• 6 programmable chases of 184 scenes</li> <li>• Scene pause time: 1 - 25.5 seconds / step</li> <li>• Scene graduation speed: 0.1 - 25.5 seconds</li> <li>• Available power adapter: US standard, EU standard</li> <li>• Power input: DC 9 - 12V</li> <li>• Material: iron and plastic</li> </ul>
<p style="text-align: center;">ENUOLI</p> 		4	-	<p style="text-align: center;">52 LED PAR LIGHT (SET OF 4)</p> <p style="text-align: center;">Power: 60W</p> <p>Led quantity: 54pcs 1W led lamps          Led quantity: R:12 G:18 B:18 W:6          Color emitting: RGBW single color          DMX channels: 8 Channels          Lens angle: 15° / 25° / 45°( optional)          Functions: DMX. Sound control. Built-in program. Auto run.          Led working lifes: 100000hours          Certification: CE          Cooling system: Jasen JS6010HS-24V 0.12A low working noise          Housing materials: plastic case black color</p>
		2	-	<p style="text-align: center;">25 PATTERN RGB LED STAGE LIGHT</p> <p style="text-align: center;">Characteristic:</p> <p>Control Mmode: DMX-512/Auto/Sound/Master-Slave          Control Signal: International Standard DMX-512 Signal Channel          Control system: Stepper Motor          Scanning Angle: ±25°          Applicable place:          DJs, Bands, Bars, Pubs, Clubs, Roller skating rinks, KTV, Family party, Birthday, celebration, Wedding, Festival, Mall, Store, Shop and other appointed place.</p> <p style="text-align: center;">Parameter:</p> <ol style="list-style-type: none"> <li>1. Mains Input: AC AC110-240V</li> <li>2. Condition Temperature: 10-40°C</li> <li>3. Power: 30W</li> <li>4. Laser Power: Green-200mw / Red-100mw / Blue-200mw</li> <li>5. Function: DMX / Sound Active / AUTO / Master-Slave.</li> <li>6. Operator interface: Manual / DMX</li> <li>7. DMX Control Channel: 3 pins XLR Male / Female, 9 Channels</li> <li>8. Graphics &amp; Effects: 2 lens Laser scan, more than 25 patterns</li> </ol>

 		16	-	<p>110-220V 10W 6 Channel Mini Portable LED Stage Light RGBW Spotlight Beam Effect Pinspot Lamp</p> <p>MINI: Compact and mini to be taken in hand, easy to install.</p> <p>BEAM LIGHT: Provide RGBW color changing / flashing / fading / strobe beam effect.</p> <p>MULTI-MODES: Support DMX512 control, sound activated and auto mode.</p> <p>INDOOR USE: Suitable for bar, club, home party, blind corner, etc.</p>
 		4	-	<p>60W LED Spot Moving Head Light/USA Luminums 60W LED</p> <p>Brand Name:LED 60 Watts</p> <p>Item Type:Stage Lighting Effect</p> <p>Power:100W</p> <p>Model Number:60S</p> <p>Style:DMX Stage Light</p> <p>Voltage:90-240V</p> <p>Occasion:Professional Stage &amp; DJ</p> <p>Voltage:AC100-240V 50-60HZ</p> <p>Light source:1pcs 60w led</p> <p>Playing mode:Auto-running,Sound-activated,DMX512, master-sla</p> <p>X/Y:540°, speed can be controlled.270 ° , speed can b</p> <p>Color wheel:7 color + open, rainbow -flow effect</p> <p>Gobo wheel:7 gobo +open, gobo - flow effect, gobo shake</p>

		4		<p><b>2.4G DMX WIRELESS CONNECTION SET (1 TRANSMITTER &amp; 7 RECEIVER )</b></p> <p>Latest design wireless DMX512 receiver have a built-in battery, don't need power adapter any more when it works. 2 hours full charging time, 8 hours working time. Users also can use the product while charging. Metal Black Shell. ID Code "1-7" groups ID code, press 'KEY' for setting, it only can work under same ID code of transmitter and receiver. (Same LED Color)</p> <p>This product adopts a 2.4G ISM frequency section. High effective GFSK modulate, communication design. No time delay when signal data is transmitting, signal data is real time and reliably</p> <p>RF frequency 2.400 - 2.525G. 126 channels jumping frequency automatically, high anti-jamming ability</p> <p>The red LED flashes when transmitter transmits DMX data by no interfered frequency section, then receiver changes communicated frequency section. Green LED flash till received corrected same ID value, LED flash more fast once DMX data more fast.</p>
		1		<p><b>100W Led Follow Spot Light 100W Stage Lighting Theatre Profiles Studio With Flight Case Packing</b></p> <p><b>Product description</b>  Voltage AC90-240V.50hz  Power 100W  Light source LED 90W  Pattern wheel 7 pattern wheel + white (you can add another money to do the pattern you want, or do watermark effect, do LOGO lights)  Led life 50000 hours  Working environment Indoor use  Body color Black  All functions Always operate without a DMX controller  Packing way carton box with foam inside  Size 47*27*25cm  Packing weight 10KG</p> <p><b>Application</b>  Exhibition booth Indoor and outdoor party  Music show Live show  Cencerts Special events  Mobile DJ Wedding  Studio Meeting rooom  Theatre TV station  Ceremony Stage show</p>



		1	-	75" TELEVISION W/ BRACKET
				Real 4K: 4x higher than FullHD Clean and sleek design Sharper details with HDR Smart Hub: Unlimited Content
		1	-	32" TELEVISION W/ BRACKET
				Display: 31.5 in, VA, Direct LED, 1366 x 768 pixels. Refresh rate: 60 Hz. Frame interpolation: 400 Pqi (Picture Quality Index) TV tuner: Analog (NTSC/PAL/SECAM), DVB-T, DVB-T2, DVB-C. Cores: 4. Dimensions: 737.4 x 438 x 74.1 mm. Weight: 3.8 kg.
		1	-	PROFESSIONAL VIDEO SWITCHER
				8 x Multi-Format Channels; 6 x Inputs 4 x SDI Inputs with Deinterlace 2 x HDMI Inputs with Scalers 1 x RGB/Component Input Shared with HDMI

		1	-	<div>CABLES, WIRES, CONDUIT &amp; ETC.</div> <div>VARIETY OF PIPE &amp; FITTINGS/ ICE OXYGEN COPPER WIRE GA. 16</div>
		2	-	<div>HDMI SPLITTER 4 PORTS</div> <div>1、Duplicate and boost the HDMI source from 1 source to 4 outputs.</div> <div>2、Enhance HD video signals over long distance broadcasting smoothly.</div> <div>3、Supports 3D(All units connected to the splitter outputs must support 3D).</div> <div>4、Support audio format: DTS-HD/ Dolby-tureHD/ LPCM7.1/ DTS/ Dolby-AC3/ DSD.</div> <div>5、Support video color format: 24bit/deep color 30bit/36bit.</div> <div>6、Support rack mounting kit and wall mounting kit version.</div> <div>7、Simple appearance looks decent and elegant.</div> <div>8、Support plug &amp; play, Compact size, easy to carry.</div> <div>9、Distributes HDMI input into four identical outputs, which are synchronized</div> <div>10、Achieve long distance transmission of HDMI signal of more than 15 meters</div>
TOTAL AMOUNT				-