

State of West Virginia Department of Administration Quotation
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

Request for

	COC.
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FRANK WHITTAKER: 304-558-2316

RFQ COPY TYPE NAME/ADDRESS HERE

NewTech Systems, Inc. 420 16th Street PO Box 310 PO Box 310 Dunbar, WV 25064

DIVISION OF MOTOR VEHICLES

1317 HANSFORD STREET CHARLESTON, WV 25311 558-0002

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Request for Quotation

DMV110150

PAGE

WADDRESS CORRESPONDENCE TO ATTENTION OF

FRANK WHITTAKER 304-558-2316

DIVISION OF MOTOR VEHICLES

1317 HANSFORD STREET CHARLESTON, WV 25311 558-0002

DATE PRINTED TERMS OF SALE SHIP VIA FOB. FREIGHTTERMS 03/29/2011 BID OPENING DATE: BID OPENING TIME 01:30PM 05/10/2011 CAT NO AMOUNT UOP ITEM NUMBER UNIT PRICE LINE QUANTITY FAILURE TO COMPLETE THE PRE-BID ATTENDANCE SHEET. ADDITION, WE REQUEST THAT ALL POTENTIAL BIDDERS INCLUDE THEIR E-MAIL ADDRESS AND FAX NUMBER. ALL POTENTIAL BIDDERS ARE REQUESTED TO ARRIVE PRIOR TO THE STARTING TIME FOR THE PRE-BID. BIDDERS WHO ARRIVE LATE, BUT PRIOR TO THE DISMISSAL OF THE TECHNICAL PORTION OF THE PRE-BID WILL BE PERMITTED TO SIGN IN. BIDDERS WHO ARRIVE AFTER CONCLUSION OF THE TECHNICAL PORTION OF THE PRE-BID, BUT DURING ANY SUBSEQUENT PART OF THE PRE-BID WILL NOT BE PERMITTED TO SIGN THE ATTENDANCE SHEET. ALL TECHNICAL QUESTIONS MUST BE SUBMITTED IN WRITING TO FRANK WHITTAKER IN THE WV PURCHASING DIVISION VIA EMAIL Ə FRANK.M.WHITTAKERƏWV.GOV OR VIA FAX Ə 304-558-4115. DEADLINE FOR ALL TECHNICAL QUESTIONS IS 4/22/11 a 4:00 PM. ALL TECHNICAL QUESTIONS WILL BE ADDRESSED BY ADDENDUM AFTER THE DEADLINE. EXHIBIT 5 WEST VIRGINIA CODE 21-1D-5 PROVIDES THAT: ANY SOLICITA TION FOR A PUBLIC IMPROVEMENT CONSTRUCTION CONTRACT REQUIRES EACH VENDOR THAT SUBMITS A BID FOR THE WORK TO SUBMIT AT THE SAME TIME AN AFFIDAVIT OF COMPLIANCE WITH THE BID. THE ENCLOSED DRUG-FREE WORKPLACE AFFIDAVIT MUST BE SIGNED AND SUBMITTED WITH THE BID AS EVIDENCE OF THE VENDOR'S COMPLIANCE WITH THE PROVISIONS OF ARTI CLE 1D, CHAPTER 21 OF THE WEST VIRGINIA CODE. FAILURE TO SUBMIT THE SIGNED DRUG-FREE WORKPLACE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF SUCH BID. THIS CONTRACT IS TO BE PERFORMED NOTICE TO PROCEED: WITHIN 60 CALENDAR DAYS AFTER THE NOTICE TO PROCEED SEE REVERSE SIDE FOR TERMS AND CONDITIONS DATE SIGNATURE TITLE ADDRESS CHANGES TO BE NOTED ABOVE



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FRANK WHITTAKER 304-558-2316

DIVISION OF MOTOR VEHICLES

1317 HANSFORD STREET CHARLESTON, WV

25311 558-0002

DATE PRINTED TERMS OF SALE 03/29/2011 BID OPENING DATE: 05/10/2011 BID OPENING TIME CAT UNITPRICE AMOUNT UOP ITEM NUMBER EINE QUANTITY IS RECEIVED. UNLESS OTHERWISE SPECIFIED, THE FULLY EXECUTED PURCHASE ORDER WILL BE CONSIDERED NOTICE TO PROCEED. THE DIRECTOR OF PURCHASING RESERVES THE CANCELLATION: RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE MATERIALS OR WORKMANSHIP SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT WAGE RATES: THE CONTRACTOR OR SUBCONTRACTOR SHALL PAY THE HIGHER OF THE U.S. DEPARTMENT OF LABOR MINIMUM WAGE RATES AS ESTABLISHED FOR KANAWHA COUNTY, PURSUANT TO WEST VIRGINIA CODE 21-5A, ET, SEQ. (PREVAILING WAGE RATES APPLY TO THIS PROJECT) ANY REFERENCES MADE TO ARBITRATION OR ARBITRATION: INTEREST FOR PAYMENTS DUE (EXCEPT FOR ANY INTEREST REQUIRED BY STATE LAW) CONTAINED IN THIS CONTRACT OR IN ANY AMERICAN INSTITUTE OF ARCHITECTS DOCUMENTS PERTAINING TO THIS CONTRACT ARE HEREBY DELETED. VENDOR IS REQUIRED TO PROVIDE WORKERS' COMPENSATION: A CERTIFICATE FROM WORKERS! COMPENSATION IF SUCCESSFUL ALL OF THE ITEMS CHECKED BELOW WILL BE A REQUIREMENT DF THIS CONTRACT: SUCCESSFUL VENDOR SHALL FURNISH PROOF (XX) INSURANCE: OF COMMERCIAL GENERAL LIABILITY INSURANCE PRIOR TO ISSUANCE OF CONTRACT. UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS, THE MINIMUM AMOUNT OF INSURANCE COVERAGE REQUIRED IS \$250,000. SUCCESSFUL VENDOR SHALL) BUILDERS RISK INSURANCE: ADDRESS CHANGES TO BE NOTED ABOVE



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DIVISION OF MOTOR VEHICLES

1317 HANSFORD STREET CHARLESTON, WV 3 1 3 1 1 1 5 25311

TERMS OF SALE DATE PRINTED 03/29/2011 BID OPENING TIME 01:30PM BID OPENING DATE: 05/10/2011 CAT AMOUNT UNIT PRICE UCP ITEM NUMBER QUANTITY LINE NO FURNISH PROOF OF BUILDERS RISK - ALL RISK INSURANCE IN AN AMOUNT EQUAL TO 100% OF THE AMOUNT OF THE CONTRACT. (XX) BONDS: | FIVE PERCENT (5%) OF THE TOTAL AMOUNT OF THE BID PAYABLE TO THE STATE OF WEST VIRGINIA, SHALL BE SUBMITTED WITH EACH BID AS A BID BOND. THE SUCCESSFUL BIDDER SHALL ALSO FURNISH A PERFORMANCE BOND AND LABOR/ MATERIAL BOND FOR 100% OF THE AMOUNT OF THE CONTRACT. BONDS MAY BE PROVIDED IN THE FORM OF A CERTIFIED CHECK, IRREVOCABLE LETTER OF CREDIT, OR BOND FURNISHED BY A SOLVENT SURETY COMPANY AUTHORIZED TO DO BUSINESS IN THE STATE OF WEST VIRGINIA. A LETTER OF CREDIT SUBMITTED IN LIEU OF A BOND WILL ONLY BE ALLOWED FOR PROJECTS UNDER \$100,000. PERSONAL OR BUSINESS CHECKS ARE NOT ACCECPTABLE IN LIEU OF THE 5% BID BOND, PERFORMANCE BOND, OR LABOR AND MATERIAL BOND.) MAINTENANCE BOND: A TWO (2) YEAR MAINTENANCE BON COVERING THE ROOFING SYSTEM WILL BE A REQUIREMENT OF THE SUCCESSFUL VENDOR. REV. 11/00 EXHIBIT 7 DOMESTIC ALUMINUM, GLASS & STEEL IN PUBLIC WORKS PROJECTS IN ACCORDANCE WITH WEST VIRGINIA CODE 5-19-1 ET., SEQ., EVERY CONTRACT FOR CONSTRUCTION, RECONSTRUCTION, ALTERATION, REPAIR, IMPROVEMENT OR MAINTENANCE OF PUBLIC WORKS, WHERE THE COST IS MORE THAN \$50,000 AND, IN THE CASE OF STEEL ONLY, WHERE THE COST OF STEEL IS MORE THAN \$50,000 OR WHERE MORE THAN 10,000 POUNDS OF STEEL ARE REQUIRED, THE STATE WILL ACCEPT ONLY ALUMINU SEE REVERSE SIDE FOR TERMS AND CONDITIONS DATE SIGNATURE ADDRESS CHANGES TO BE NOTED ABOVE TITI F



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DIVISION OF MOTOR VEHICLES

1317 HANSFORD STREET CHARLESTON, WV 558-0002 25311

SHIP VIA DATE PRINTED TERMS OF SALE 03/29/2011 BID OPENING DATE: BID OPENING TIME 01:30PM 05/10/2011 AMOUNT UOP ITEM NUMBER UNIT PRICE YTITMAUQ & LIME GLASS, OR STEEL PRODUCTS PRODUCED IN THE UNITED STATES IN ADDITION, ITEMS OF MACHINERY OR EQUIPMENT PURCHASED FOR USE AT THE SITE OF PUBLIC WORKS SHALL BE MADE OF DOMESTIC ALUMINUM, GLASS OR STEEL, UNLESS THE COST OF THE PRODUCT IS LESS THAN \$50,000 OR LESS THAN 10,000 POUNDS OF STEEL ARE USED IN PUBLIC WORKS PROJECTS. FOREIGN MADE ALUMINUM, GLASS OR STEEL PRODUCTS MAY BE ACCEPTED ONLY IF THE COST OF DOMESTIC PRODUCTS IS FOUND TO BE UNREASONABLE. SUCH COST IS UNREASONABLE IF IT IS 20% OR MORE HIGHER THAN THE BID PRICE FOR FOREIGN MADE IF THE DOMESTIC ALUMINUM, GLASS OR STEEL PRODUCTS TO BE SUPPLIED OR PRODUCED IN A "SUBSTANTIAL LABOR SURPLUS AREA", AS DEFINED BY THE UNITED STATES DEPARTMENT OF LABOR, FOREIGN PRODUCTS MAY BE SUPPLIED ONLY IF DOMESTIC PRODUCTS ARE 30% OR MORE HIGHER IN PRICE THAN THE FOREIGN MADE PRODUCTS. IF, PRIOR TO THE AWARD OF A CONTRACT UNDER THE ABOVE PROVISIONS, THE SPENDING OFFICER OF THE SPENDING UNIT DETERMINES THAT THERE EXISTS A BID FOR LIKE FOREIGN ALUMINUM, GLASS OR STEEL THAT IS REASONABLE AND LOWER THAN THE LOWEST BID DOMESTIC PRODUCTS, THE SPENDING OFFICE MAY REQUEST, IN WRITING, A REEVALUATION AND REDUCTION IN THE LOWEST BID FOR SUCH DOMESTIC PRODUCTS. ALL VENDORS MUST INDICATE IN THEIR BID IF THEY ARE SUPPLYING FOREIGN ALUMINUM, GLASS OR STEEL. REV. 3/88 EXHIBIT 9 NOTICE FOR ISSUANCE & ACKNOWLEDGEMENT OF CONSTRUCTION PROJECT ADDENDA SEE REVERSE SIDE FOR TERMS AND CONDITION DATE SIGNATURE

ADDRESS CHANGES TO BE NOTED ABOVE



EXDOR

TITLE

*C08142531

PO BOX 310

DUNBAR WV

420 16TH ST

NEWTECH SYSTEMS INC

25064

State of West Virginia Department of Administration **Purchasing Division** 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

304-766-0000

Request for Quotation

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DIVISION OF MOTOR VEHICLES

1317 HANSFORD STREET CHARLESTON, WV 25311 558-0002

DATE PRINTED TERMS OF SALE SHIP VIA FOB. FREIGHT TERMS 03/29/2011 BID OPENING DATE: 05/10/2011 **OPENING TIME** 01:30PM CAT. QUANTITY LINE UOP ITEM NUMBER UNIT PRICE AMOUNT THE ARCHITECT/ENGINEER AND/OR AGENCY SHALL BE REQUIRED TO ABIDE BY THE FOLLOWING SCHEDULE IN ISSUING CONSTRUCTION PROJECT ADDENDA FOR STATE AGENCIES: THE ARCHITECT/ENGINEER SHALL PREPARE THE ADDENDUM AND A LIST OF ALL PARTIES THAT HAVE PROCURED DRAWINGS AND SPECIFICATIONS FOR THE PROJECT. THE ADDENDUM AND LIST SHALL BE FORWARDED TO THE BUYER IN THE STATE PURCHASING DIVISION. THE ARCHITECT/ENGINEER SHALL ALSO SEND A COPY OF THE ADDENDUM TO THE STATE AGENCY FOR WHICH THE CONTRACT IS ISSUED. THE BUYER SHALL SEND THE ADDENDUM TO ALL INTERESTED PARTIES AND, IF NECESSARY, EXTEND THE BID OPENING DATE. ANY ADDENDUM SHOULD BE RECEIVED BY THE BUYER WITHIN FOURTEEN (14) DAYS PRIOR TO THE BID OPENING DATE. ALL ADDENDA SHOULD BE FORMALLY ACKNOWLEDGED BY ALI BIDDERS AND SUBMITTED TO THE STATE **PURCHASING** DIVISION. THE SAME RULES AND REGULATIONS THAT APPLY TO THE ORIGINAL BIDDING DOCUMENT SHALL ALSO APPLY TO AN ADDENDUM DOCUMENT. THE ONLY EXCEPTION MAY BE FOR AN ADDENDUM THAT IS ISSUED FOR TH SOLE PURPOSE OF CHANGING A BID OPENING TIME AND/OR DATE. REV. 11/96 EXHIBIT 10 ADDENDUM ACKNOWLEDGEMENT I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED AND HAVE MADE THE NECESSARY REVISIONS TO ADDENDUM(S) SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE **FELEPHONE** DATE



VENDOR

*C08142531

PO BOX 310 420 16TH ST DUNBAR WV

NEWTECH SYSTEMS INC

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558-0002

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1317 HANSFORD STREET CHARLESTON, WV

25311 558-0002

TERMS OF SALE DATE PRINTED SHIP VIA F.O.B. **FREIGHT TERMS** 03/29/2011 BID OPENING DATE: 05/10/2011 BID OPENING TIME 01:30PM CAT. LINE QUANTITY UOP ITEM NUMBER UNIT PRICE AMOUNT WEST VIRGINIA STATE CODE 21-11-2 REQUIRES THAT ALL PERSONS DESIRING TO PERFORM CONTRACTING WORK IN THIS STATE MUST BE LICENSED. THE WEST VIRGINIA CONTRACTORS LICENSING BOARD IS EMPOWERED TO ISSUE THE CONTRACTORS APPLICATIONS FOR A CONTRACTORS LICENSE MAY BE LICENSE. MADE BY CONTACTING THE WEST VIRGINIA DIVISION OF LABOR CAPITOL COMPLEX, BUILDING 3, ROOM 319, CHARLESTON, WV TELEPHONE: (304) 558-7890. WEST VIRGINIA STATE CODE 21-11-11 REQUIRES ANY PROSPECTIVE BIDDER TO INCLUDE THE CONTRACTORS LICENSE NUMBER ON THEIR BID. BIDDER TO COMPLETE: NewTech Systems, Inc. CONTRACTORS NAME: WV042038 CONTRACTORS LICENSE NO.: THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FURNISH A COPY OF THEIR CONTRACTORS LICENSE PRIOR TO ISSUANCE OF A PURCHASE ORDER/CONTRACT APPLICABLE LAW THE WEST VIRGINIA STATE CODE, PURCHASING DIVISION RULES AND REGULATIONS, AND THE INFORMATION PROVIDED IN THE "REQUEST FOR QUOTATION" ISSUED BY THE PURCHASING DIVISION IS THE SOLE AUTHORITY GOVERNING THIS PROCUREMENT. ANY INFORMATION PROVIDED IN SPECIFICATION MANUALS, OR ANY OTHER SOURCE, VERBAL OR WRITTEN, WHICH CONTRADICTS OR ALTERS THE INFORMATION PROVIDED FROM THE SOURCES AS DESCRIBED IN THE ABOVE PARAGRAPH IS VOID AND OF NO EFFECT. SEE REVERSE SIDE FOR TERMS AND CONDITIONS. SIGNATURE ELEPHONE DATE TITLE ADDRESS CHANGES TO BE NOTED ABOVE



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*C08142531

PO BOX 310 420 16TH ST

NEWTECH SYSTEMS INC

DUNBAR WV 25064

State of West Virginia
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Charleston, WV 25205 2422 Charleston, WV 25305-0130

304-766-0000

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DIVISION OF MOTOR VEHICLES

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DATE PRINTED TERMS OF SALE SHIP VIA FREIGHT TERMS FOB. 03/29/2011 BID OPENING DATE: 05/10/2011 OPENING TIME 01:30PM CAT. NO UOP QUANTITY UNIT PRICE LINE ITEM NUMBER AMOUNT B04-766-0003 PLEASE PRINT OR TYPE NAME OF PERSON TO CONTACT

CONCERNING THIS QUOTE: Andrew Ramsey DMV110 150 ***** TOTAL: \$117,287.11 IS THE END OF RFQ THIS

SEE REVERSE SIDE FOR TERMS AND CONDITIONS SIGNATURE DATE TELEPHONE TITLE FEIN ADDRESS CHANGES TO BE NOTED ABOVE

SPECIFICATIONS

The model/ brand/specifications named herein establish the acceptable level of quality only and are not intended to reflect a preference or favor any particular brand or vendor. The following specifications are to be considered minimum acceptable specifications unless otherwise noted in this document. It is preferred that the manufacturer specification sheets be provided with the bid, however specification sheets must be provided within 48 hours of request. Failure to provide the manufacturer specifications within 48 hours of request may result in bid disqualification.

Qty.	Item Description	Unit Cost	Extended Cos
3	Sanyo PDG-DHT100L DPL Multimedia Projector	15,518.2	5 \$46,544.7
	Resolution: HD 1920 x 1080 (UXGA dot resizing possible)		
	Brightness: 6,500 ANSI lumens		
	Pixels: (2,073,600) 1920 x 1080 (16:9)		
	Scanning Frequency:	1	
	Horizontal: 15-120KHz Vertical 48-120Hz		
	Input Signal Compatibility:		
	UXGA/SXGA+/SXGA/WXGA/XGA/SVGA/VGA/MAC		
	1080P-24/25/30/48/50/60, 1080psf-24/25/30	}	
	1080;-50/60 720p-50/60/575p/480p/575i/4801		
Ì	Color System: PAL/SECAM/NTSC/NTSC4.43/PAL-M/N		
	Image Size (diagonal): Minimum 50"—Maximum 600		
	Weight: 44 pounds max		
į	Dimensions: 16"(w) x10"(h) x21"(d)	ĺ	
	PC Input/Output:		
	2 Digital Video Input; DVI-D x 1 (1 HDCP compatible)		
	Analog RGB input x 1; D-sub 15-pin x 1		
	BNC x 5 (RGBHV, VIDEO/Y-Pb/Cb-Pr/Cr) S-Video x 1		
	RJ45 LAN x1, Serial D-sub9IN x 1		
1	One empty expansion slot		
	Accessories:		
	Color Reproduction Wheel Set		
	High Brightness Color Wheel Set (Installed) Wireless Remote		
	Wireless Remote		
	Removable Power Cord with Fixing Bracket D-Sub Computer Cable	Į	
	Instruction Manual and CD/DVD		
	Instruction ivianual and CDID VD		
	Three year warranty (parts and labor) Sanyo LNS-T50 Long Zoom Lens		
3	Sanyo Livs-150 Long Zoom Zoom	5 7/2 2	\$20,229.7
	o a . 5 0.1 Throng Patio	p, /43.23	φ 40, 443.1
	• 2.8 - 5.0:1 Throw Ratio		
	 59.3 - 106.7mm Focal Length 1.8x Power Zoom 		Ì
1 1	• 1.8X POWER ZOULI		

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3	Sanyo 645 099 0199 Remote Control	54.00	162.00
۱ د		31.00	102100
	(MUST BE COMPATIBLE WITH BOTH PROPOSED PROJECTOR AND	1	
1	LONG ZOOM LENS)		
$-{3}$	Peerless CMJ455 Drop Ceiling Mount Adapter		
_	·	83.94	251.82
	(MUST MATCH THE CEILING MOUNT KIT DESCRIBED BELOW, IF	03.94	231.02
	PRESENTED AS "EQUAL TO.")		
		_	
	Peerless PRGUNV Projector Ceiling Mount Kit		
3	• Replaces a 2' x 2' (609 x 609 mm) ceiling		
_	tile: or mounts above existing 2' x 2' (609 x		
	609 mm) or 2' x 4' (609 x 1219 mm) ceiling	174.53	532.59
'	tile to structural ceiling with tie wires	}	
	Two-piece design offering five different points		
	for mount attachment		:
	Includes tie wire supports, flush mount tube and		1
	offers two knockout panels for outlet boxes	Ì	
	• Unit has 1-1/2"-11.5 NPT (38 mm) fitting for		1
	attachment of extension column		
	Load Capability: 50 lb (22 kg)		
2.	Dalite 88393L C (Cherry Veneer/Black End Caps)		
	TAICE Designation Corpora		
	Contour Electrol HDTV w/LVC Projection Screen		
	Retractable, matte white screen	ļ	
	Dimensions: 58" X 104" (119" diagonal)	√955.80	1,911.60
İ	Aspect Ratio:16:9		
	Form Factor: Wall/Ceiling Mount	1	
	White finish preferred Compatible remote controls (see next line item)		
	Dalite 98662 Remote Control	102.05	206 10
2	(or equal, compatible with alternative projection screen bid.)	193.05	386.10
	Spectrum 55218 CHBHD Compact Lectern		
2	Spectrum 33210 Cristian Summer	1	
	Black and Cherry cabinet facing		
	Pook Poil 28" front – 16 rack units (19" U)	l l	
	Locking Doors, front and back (if both are available)	1	1 2 222 2
	Locking Balloon wheels	1,416.	15 2,832.3
	20" Retractable Power Cord	1	1
	8-Outlet Power Strip		
	Descripted Panels for Heat Dissipation	205 65	F01 30
<u></u>	Seastway 55219 CHR Flip Up Shelf (MATCH LECTERN)	295.65	591.30
2	CITE 07505 Shelf (MATCH LECTER)	193.05	772.20
4	O CHR Riser Podium (MAICH LECTERY)	201.15	402.30
2	Spectrum 55002 CTD Kisser 7000 (MATCH LECTERN) Spectrum 55142 (Extra Set of Keys) (MATCH LECTERN)	6.75	13.50
2	Spectrum 33172 (Data 3		

1	Spectrum 38245 BL Instructor's Stool		
	Pneumatic height adjustment	399.60	399.60
	Trouble-free chrome foot ring	355.00	333.00
}	Easy-to-use ratchet back		
	Tilting backrest		
1	Sliding seat		
j	Back angle adjustment		
	Oversized casters		
	Sony SCVD380P DVD/VCR Player		
2	(include Coaxial and RCA Cables)		
	Progressive Output (480p) for DVD Player	120.15	240.30
	Multi Brand TV Remote Control	120.13	240.30
]			
l 1	• CD, MP3, and JPEG Playback	i	
	4-Head High-Fidelity Stereo A-Head High-Fidelity Stereo A-Head High-Fidelity Stereo A-Head High-Fidelity Stereo		
2	Crestron TPS4000 10.4" Color Touch Panel		
	640 X 480 Resolution		
	Aspect Ratio: 4:3 VGA		
	Brightness: 450 nits	3,240.0	6,480.00
	Contrast: 600:1	3,210.0	
1	Color: 18-bit 256k	ţ	
	32-bit Processor	ļ	
1	Memory:	-	
	DRAM: 8MB, Flash: 8MB		
	Accepts NTSC(480i)/(576i)PAL Composite	-	
	for S-Video source		
1	Volume Control; Audio Mixer		
	Line-Level Stereo input		
	To the Amelified Stereo Speakers (2 watts/channel)		
	Microphone (Headphone) with automatic gain control and line-level output		
	(3.5mm TRS mini phone jack)		Ì
	Adjustable Screen Tilt (30 to 80 degrees)	-	
	Dimensions: 10.3"h x 10.96"w x 9.32" d		
2	Crestron MPS 300 Multimedia Presentation System		
2			
	32-bit Micro-Processor	4,320.	00 8,640.00
	Resolution: QXGA 2048 X1536 @ 60Hz		·
	Memory:		
ļ	SDRAM 32MB; NVRAM 256KB; FLASH 16MB		
	Onewating System:	1	
	Supports SIMPL Windows, Real-Time, multi-tasking and multi-threading,		
	FAT32 file system (long name support)		[
	Notwork Connectivity and Support:		
	- (a) Out-1, Media and one (1) CATO UUDUIS		1
	10/100BaseT static IP or DHCP/DNS, SSL, full-duplex TCF/II, ODF/II,	'	
	SMIP, SNW		
	Viden:		
	Signal Input Types: 3 RGB and composite, S-Video,		
	commonant VIGEO		
	STMOO D.K.I. O LITTLY IID 18 1 1/00// 1/07/P		
	Video Input Types: NTSC of PAL, 2 FIDT v up to Total QM delay Switcher: 8x7 cross point matrix with 3x3 QM signal routing, local QM delay		!
	SWITCHER: 8X/ CLOSS POINT MARKET 11-12-12-12-12-12-12-12-12-12-12-12-12-1		

		····	
	skew compensation and RGB pass-thru mode Switcher/Preamp:		
	8x4 stereo cross point matrix with, 3x3 QM signal routing,	1	
	2 sharpel gated microphone preamp with compressor and limiter; 8-channels		
- 1	microphone FO: 10v5 microphone/program matrix mixer, 0x2 interophone		
-	matrix mixer per each 3 OM outputs; mono volume/tone control and EQ/delay		
	on speech output; integrated power amplifier;		
	QM auto-compensating with self-peaking	1	
	40-watt built-in amplifier		
	Additional Features:		
	Two (2) RS-232, four (4) IR, 4 digital in, 8x4 relay control ports]	
	Two (2) RS-232, four (4) IR, 4 digital in, 6x (5a) control:		
	Front panel setup and control;	1	
	Keypad, touch panel and wireless control options;	1	
	2U rack-mountable		
2	Crestron OM-RX OM Receiver		
	Signal Types: RGB and composite, S-Video,		
	or component video	877.50	1775.00
	Video/HDTV Formats: NTSC or PAL, HDTV up to 1080i/p		
	Maximum Resolution: 1920x1200 @60Hz	1	
	Front Panel Connectors:		
	One (1) 8-wire RJ45 female input port;		
	Two (2) 4-pin 3.5mm detachable terminal blocks	1	
	Rear Panel Connectors:	}	
	RGBHV, S-Video, Video (BNC),		
	DB9 Bidirectional RS-232, IR/Serial Port		
2	Crestron CNPWS-75 Power Supply		
	• 75 Watts (3.125 Amps) @ 24 Volts DC regulated		
	• (2) 4-pin 5mm detachable terminal blocks;		
	• (2) 4-pin smill detachable terminal broshes	303.75	607.50
	Power output ports, paralleled;	303.75	007.50
	Data 'Y' and 'Z' terminals pass-through only		
	• IEC320 Socket;]
	Mates with removable power cord, included		
	Freestanding or 2U 19-inch rack-mountable		
	2 55" H x 4.74"W x 8.07" D		
2	Tripplite TRPS500RT1U Rack Mount UPS		
	500VA 1U rack/tower UPS (wall-mount or under lectern mounting)		
	Five (5) outlets: four (4) UPS/surge, one (1) surge only		
	SNMP-Compatible	215.99	431.98
	DB9 Serial Port for Network Interface	' ' ' ' '	
	EMI/RFI Noise Filtering		
	EMINET NOISE PROCESS		
	Diagnostic LEDs		
	6-foot cord		
	Power Alert Software, 6-foot network cable and mounting hardware	1	
	Minimum \$250,000 Lifelline wallarity		
4	Panasonic UB-8325 Electronic Whiteboard		
	External Dimensions: 54.6"H x 61"W x 10.4"D	2801.25	11,205.0
	Panel Dimensions: 35.4"H x 55.1"W	t	

	Panel Surface: Two (2) Endless scroll type) Scanning Image Sensors Interface: USB 2.0 Windows compatible Printing: Fusion thermal transfer type Copy: Standard letter size 8.5"x11"; 16-24 lb. Copy Color/Density: Black, 203dpi Copy Speed: 15 seconds per sheet, up to nine (9) sheets continuous Two (2) Screen Compressed Copying Electronic Pen and Electronic Eraser: minimum expectancy 40 hour battery life Features: Drawing Tool; Screen Capture; Screen Print; Board Image Capturing; Handwriting Recognition (English) Consumables: Two (2) sets KX-B035 Marker and Eraser Kit (1 Black pen, 1 Red pen, 1 Blue pen, 1 Eraser) Eraser Cloths: KX-BP0481 (set of 10)	17.89	143.12
4	Panasonic KX-B063 Wall-Mounting Kit (or applicable to alternative Whiteboard offered.)	47.25	189.00
1	Four (4) employees, one full eight (8) hour day	67.50	540.00
1	Installation Complete Installation (turn-key solution)	11,850.0	0 11,850.00 175.00
	TOTAL BID SHIPPING	<u> </u>	1/3.0

TOTAL BID

\$117,287.71

All equipment must be new, not used, or refurbished. Complete delivery and installation must be completed within sixty (60) days of contract award. The fully executed purchase order shall serve as the Notice to Proceed and the date of the purchase order will determine the start of the 60 day installation period.

All equipment must carry a minimum of a one (1) year warranty (with the exception of the Multimedia Projector, which will have a 3 year warranty on parts and labor) with on-site support as required. Bids must be all-inclusive of travel expenses.



420 16th Street Dunbar, WV 25064 office: 304-766-0000 fax: 304-766-0003 www.newtechwv.com

To: WV DMV

Attn: Frank Whittaker 1317 Hansford St.

Charleston, WV 25311

Phone: 304-558-2316

Fax:

Quote:

AKDYQ1768

Date: Terms:

05/09/11 See Below

Sales Tax:

Not Included

FOB:

Not Included

Expires: 60 Days

Project: RFQ DMV110150

Qty	Manufacturer	Part Number	Description	Unit	Extended
		· · · · · · · · · · · · · · · · · · ·	RFQ DMV110150		
3	Sanyo	PDG-DHT8000L	8000 ANSI Lumens, HD (1920x1080) resolution, 7500:1	\$15,518.25	\$46,554.75
	•		Contrast ratio, Power Zoom/Focus/Lens Shift, no lens		
3	Sanyo	LNS-T50	Long Zoom Power Lens, 3.0-5.5:1(DET100L)12.8-5.0:1 (DHT100L/DHT8000L)	\$6,743.25	\$20,229.75
3	Sanyo	6450990199	remote control	\$54.00	\$162.00
3	Peerless	CMJ455	Lightweight Variable Position Suspended Ceiling Kit	\$83.94	\$251.82
3	Peerless	PRG-UNV	Universal PRG Precision Gear Projector Mount	\$174.53	\$523.59
2	Da-Lite	88393L	CONTOUR,119D 58X104NPA MW	\$955.80	\$1,911.60
2	Da-Lite	98662	RF REMOTE KIT	\$193.05	\$386.10
2	Spectrum	55218	Compace Lectern w/accessories	\$2,305.80	\$4,611.60
1	Spectrun	38245	Instructor's Stool	\$399.60	\$399.60
2	Toshiba	SD-V296	DVD/VCR Combo Player	\$120.15	\$240.30
2	Crestron	TPS-4000	Isys 10.4" Tilt Touchpanel; includes TPS-IMPC and 15 ft cable	\$3,240.00	\$6,480.00
2	Crestron	MPS-300	Multimedia Presentation System 300 - 2 video, 3 RGB, 3 QM, 5 program audio, & 2 mic inputs; 1 video/RGB output; 2 QM outputs + 1 QM/CH touchpanel output; discrete program, speech, & record audio outputs; stereo amplifier; digital audio processor; 8-channel mic mixer; 8x7 video matrix; 2-Series control system	\$4,320.00	\$8,640.00
2	Crestron	QM-RX	QuickMedia Receiver	\$877.50	\$1,755.00
2	Crestron	CNPWS-75	Cresnet Power Supply, 75 Watts	\$303.75	\$607.50
2	Tripp Lite	SMART500RT1U	500VA 1U Rack Mount 6 Output UPS	\$215.99	\$431.98
4	Panasonic	UB-8325	Electronic Whiteboard	\$2,801.25	\$11,205.00
8	Panasonic	KX-B035	Marker and Eraser Kit	\$17.89	\$143.12
4	Panasonic	KX-B063	Wall Mounting Kit	\$47.25	\$189.00
1	NSI	LBR	Installation, Set-up, Programming, Testing, & Misc Materials	\$11,850.00	\$11,850.00
8	Labor	SysTrn	System Training	\$67.50	\$540.00
			SubTotal		3117,112.71
1	Shipping	Shipping	Shipping & Handling Charges	\$175.00	\$175.00
			Grand To	otal: \$	117,287.71

Accepted By _		
Title		
Date		

Please call me if I can be of further assistance.

Respectfully,

Andrew Ramsey
A/V System Sales
WV Lic# WV042038

COST SUMMARY Quote # AKDYQ1768

05/09/11 aramsey Sales Rep

Date

WV DMV

Sold To:

Charleston, WV 25311 1317 Hansford St. Frank Whittaker

ģ	Qty Manufacturer	Part Number	Description	Unit Cost	Ext. Cost	Ext. Price
က	Sanyo	PDG-DHT8000L	8000 ANSI Lumens, HD (1920x1080) resolution, 7500:1 Contrast ratio, Power Zoom/Focus/Lens Shift, no lens	\$11,495.00	\$34,485.00	\$46,554.75
က	Sanyo	LNS-T50	Long Zoom Power Lens, 3.0-5.5.1(DET100L)I/2.8-5.0:1 (DHT100L/DHT8000L)	\$4,995.00	\$14,985.00	\$20,229.75
က	Sanyo	6450990199	remote control	\$40.00	\$120.00	\$162.00
က	Peerless	CMJ455	Lightweight Variable Position Suspended Ceiling Kit	\$62.18	\$186.54	\$251.82
က	Peerless	PRG-UNV	Universal PRG Precision Gear Projector Mount	\$129.28	\$387.84	\$523.59
2	Da-Lite	88393L	CONTOUR, 119D 58X104NPA MW	\$708.00	\$1,416.00	\$1,911.60
2	Da-Lite	98662	RF REMOTE KIT	\$143.00	\$286.00	\$386.10
7	Spectrum	55218	Compact Lectern	\$1,049.00	\$2,098.00	\$2,832.30
2	Spectrum	55219	Flip up Sheif	\$219.00	\$438.00	\$591.30
4	Spectrum	97505	Shelf	\$143.00	\$572.00	\$772.20
2	Spectrum	95002	Riser Podium	\$149.00	\$298.00	\$402.30
2	Spectrum	55142	Extra Keys	\$5.00	\$10.00	\$13.50
~	Spectrun	38245	Instructor's Stool	\$296.00	\$296.00	\$389.60
2	Toshiba	SD-V296	DVD/VCR Combo Player	\$89.00	\$178.00	\$240.30
2	Crestron	TPS-4000	lsys 10.4" Tilt Touchpanel; includes TPS-IMPC and 15 ft cable.	\$2,400.00	\$4,800.00	\$6,480.00
8	Crestron	MPS-300	Multimedia Presentation System 300 - 2 video, 3 RCB, 3 QM, 5 program audio, & 2 mic inputs; 1 video/RGB output; 2 QM outputs + 1 QM/CH touchpanel output; discrete program, speech, & record audio outputs; stereo amplifier; digital audio processor; 8-channel mic mixer; 8x7 video matrix; 2-Series control system	\$3,200.00	\$6,400.00	\$8,640.00
2	Crestron	QM-RX	QuickMedia Receiver	\$650.00	\$1,300.00	\$1,755.00
2	Crestron	CNPWS-75	Cresnet Power Supply, 75 Watts	\$225.00	\$450.00	\$607.50
7	Tripp Lite	SMART500RT1U	500VA 1U Rack Mount 6 Output UPS	\$159.99	\$319.98	\$431.98
4	Panasonic	UB-8325	Electronic Whiteboard	\$2,075.00	\$8,300.00	\$11,205.00
ထ	Panasonic	KX-B035	Marker and Eraser Kit	\$13.25	\$106.00	\$143.12

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Otto	Qty Manufacturer	Part Number	Description	Unit Cost	Ext. Cost	Ext. Price
4	Panasonic	KX-B063	Wall Mounting Kit	\$35.00	\$140.00	\$189.00
96	96 Labor	Installation	Installation	\$55.00	\$5,280.00	\$7,920.00
చ	Labor	SysTest	System Testing	\$45.00	\$360.00	\$540.00
. 91	16 Labor	Prog	Programming	\$60.00	\$960.00	\$1,440.00
80	Labor	Misc	Misc materials	\$100.00	\$800.00	\$1,200.00
8	Crestron	CRESCAT-QM-NP-SP500	QuickMedia@ Cable, Low-skew CAT5e & Cresnet, non-plenum, 500 ft spool	\$250.00	\$500.00	\$750.00
6 0	Labor	SysTm	System Training	\$45.00	\$360.00	\$540.00
~	Shipping	Shipping	Shipping & Handling Charges	\$175.00	\$175.00	\$175.00
Order Statistics:	stics:			SubTotal	86,007.36	\$117,287.71
	Markup	1.36		Sales Tax		\$0.00
Profit	Profit Amount	\$31,280.35		Shipping		\$0.00
Profit	Profit Percent	26.67		Totals		\$117,287.71

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420 16th Street • PO Box 310 Dunbar, WV 25064 Phone 304-766-0000 Fax 304-766-0003

May 16, 2011

WV DMV 1317 Hansford St. Charleston, WV 25311

RE: Delivery Timeline

Pursuant to the requirement listed in RFQ #DMV110150, page 11, item 6 under General Requirements we propose the following:

- Upon receipt of Purchase Order or Notice to Proceed equipment and materials will be ordered.
- After receipt of sufficient materials (wire, cable, mounting hardware, etc.) job mobilization will begin with coordination with Owner to schedule access to spaces requiring work. [21 to28 days]
- Once scheduling is completed, work will begin with installation of wiring, cabling, and relevant hardware. [5 to 7 days]
- Upon receipt of remainder of equipment conduct scheduling with Owner for completion of installation. [5 to 10 days]
- Complete installation, programming and testing of equipment in coordination with Owner granting access to required spaces. [5 to 10 days]
- Coordinate training with Owner [1 day]

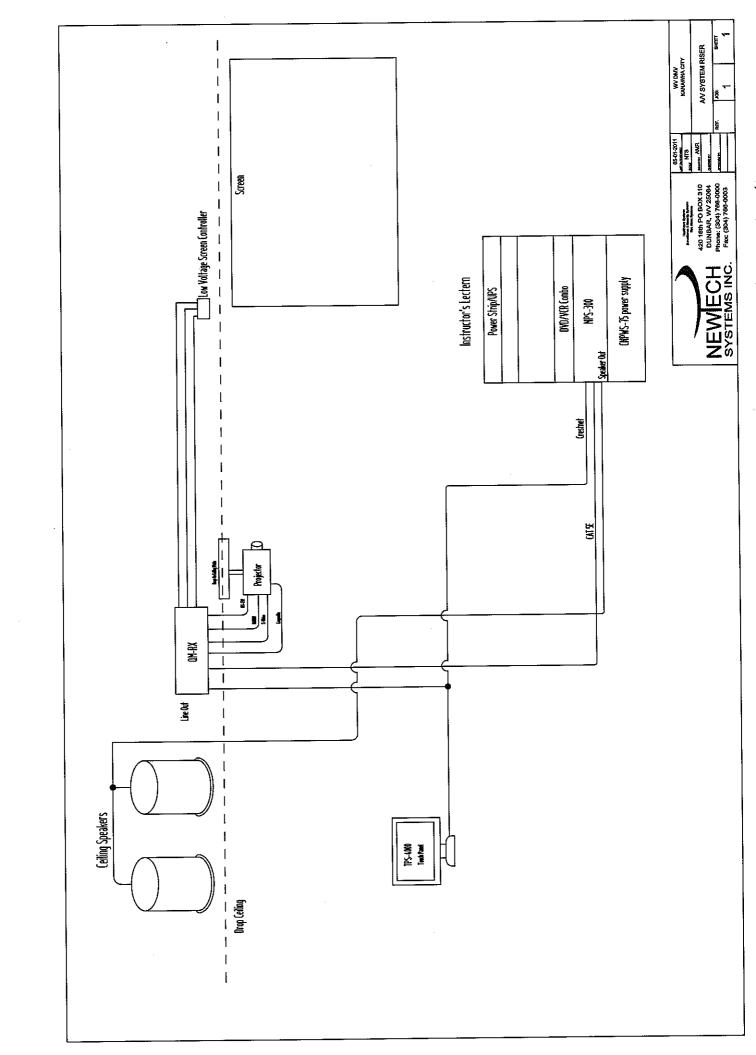
The above timeline may be subject to changes and delays beyond NewTech Systems, Inc. control including but not limited to:

- Availability of equipment from manufacturer(s)
- Shipping delays, strikes, layoffs, etc.
- Owners discretion

Andrew Ramsey

System Sales

hank you,



PDG-DHT8000L

1080P HD HIGH BRIGHTNESS DLP® PROJECTOR















)LP® Buil Net

Built-in Active Network Maintenance Filter System

Optional Lamp Lens System Management System

X-Y Power Len Shift

8,000 LUMENS AND FULL HD VIDEO FOR A HIGH BRIGHTNESS AND SUPERIOR IMAGE

This projector is designed to handle 1080p HD (1920 x 1080) high quality resolution image projection. Attention to detail and accuracy allows use of the projector in more demanding situations, such as specialized design fields or CAD applications. The PDG-DHT8000L has two different types of user-changeable color wheels. A 6 segment color wheel provides rich color reproduction and a 4 segment wheel offers higher brightness.

DUST-RESISTANT SEALED OPTICAL ENGINE WITH PELTIER COOLING SYSTEM FOR SILENT, AND HIGHLY DURABLE PROTECTION

The new sealed optical engine uses a peltier element. It cools the DLP® chip silently and it reduces fan noise. The cooling system design prevents dust build-up while maintaining optimal brightness and contrast.

HIGHLY DURABLE ACTIVE MAINTENANCE FILTER (AMF) SYSTEM

The AMF can block dust and rotate automatically by monitoring intake air volume. When the filter is clogged, a new filter automatically advances up to 10 times. This cartridge can be used up to 35000 hours (Eco mode).

ADDITIONAL FEATURES FOR VERSATILE INSTALLATION

Equipped with 'Edge Blending Function' that allows what feels like boundary-less images with multi-image display possibilities. Built-in 'Color Matching' function correcting variations in color reproduction when using more than one projector. Capable of projecting two images simultaneously either using built-in picture-in-picture mode or picture-by-picture mode.

24/7 FEATURE "LAMP INTERVAL FUNCTION"

The lamp interval" function can be used to automatically switch the lamp that is turned on to an alternate lamp after a programmable period of time in order to reduce the initial lamp deterioration. A user can select from [Off/Auto/200h/500h/1000h/2000h] or 24h" interval time, and rotate each lamp for 24/7 usage.

LENS OPTIONS

Model	Type (Zoom)	U/D Ratio	Throw Ratio	F Stop
LNS-W52	Short (Fixed)	1:1	0.8:1	2.0
LNS-W53	Short (x1.48)	21:-1 ~ -1:21	1.2 ~ 1.8:1	2.4 ~ 2.7
LNS-W51	Short (x1.25)	6.65:-1 ~ -1:6.65	1.2 ~ 1.5:1	2.3 ~ 2.7
LNS-W50	Short (x1.20)	6.65:-1 ~ -1:6.65	1.5 ~ 1.8:1	2.0 ~ 2.1
LNS-S51	Standard (x1.56)	21:-1 ~ -1:21	1.8 ~ 2.8:1	2.0 ~ 2.7
LNS-S50	Standard (x1.56)	6.65:-1 ~ -1:6.65	1.8 ~ 2.8:1	2.0 ~ 2.6
LNS-T50	Long (x1.80)	6.65:-1 ~ -1:6.65	2.8 ~ 5.0:1	2.0 ~ 2.9
LNS-T51	Ultra Long (x1.67)	6.65:-1 ~ -1:6.65	4.8 ~ 8.0:1	2.3 ~ 3.2



PRESENTATION TECHNOLOGIES

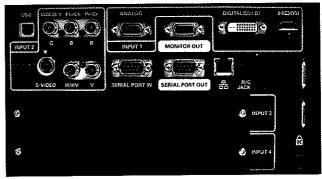
21605 Plummer Street Chatsworth, CA 91311 Ph: 888-337-1215 (toll-free)

Fax: 818-717-2719 www.sanyoprojectors.com

Resolution		1080p HD (1920 x 1080)		
Brightness (1	typical)	800	0 Lm		
Contrast Ra	tio (Full on /off)	75	00:1		
Image Size		50"	-600"		
Aspect Ratio	>	1	6:9		
Projection La	amp	33	30W		
Scanning Fr	equency	H:15-120kH	z, V:48-120Hz		
Fan Noise		35 dB	A (Eco)		
Voltage		100	-240V		
Power Cons	umption	789V	V (Eco)		
Input signal	compatibility	WUXGA , UXGA , WSXO WXGA , XGA , SVGA , V 1080p/psf/i, 720p, 575p/i	/GA , MAC		
Color Syster	m	NTSC/PAL/SECAM/N	ITSC4.43/PAL-M/PAL-N		
Up / Down f	Ratio	Depende	ent on lens		
Digital Keys	tone Correction	V +/- 30°	, H +/- 30°		
Speaker Ou	tput		N/A		
Weight (lbs)		43.2 lbs (v	vithout Lens)		
Dimensions	(inch) W,H,D	15.7 x	9.5 x 20.6		
Replaceme	nt Lamp	# 610	350 6814		
Replaceme	nt Remote	# 645	099 0199		
Replaceme	nt AMFCartridge	POA	-FIL090		
Lamp Life *	(hours)	3000h (Eco)			
Input PC/Video		DVI-D x 1 (HDCP), HDMI x 1(v1.3 with Deep Color) D-sub 15 x 1 (RGB, Scart RGB) 5BNC x1 (G B R H/V V) (Video/Y Pb/Cb Pr/Cr) Mini DIN 4pin x 1 (S-Video)			
	Audio	none			
0.1	PC/Video	D-sub 15 x 1			
Output Audio		none			
Other Feature		D-sub 9-pin x 1 (Control port), USB (type B) x 1 RJ-45 x 1 (Wired LAN), Interface board slot x2 Mini jack x 1 (Wired R/C)			
Included Accessories		6-seg color wheel x2 Power cable RGB cable Remote control	Owner's manual(cp-ROM) Network Owner's manual PIN code label AA battery x 2		
Optional In	terface Board	POA-AMD23ADI POA-AMD25VD3 POA-AMD17SDID	(DVI/D-Sub15 interface) (5BNC/S-Video interface) (HD/SD-SDI interface)		
Warranty		Three years parts and la 90 days original lamp; Quick Repair Program u			

Because its products are subject to continuous improvement, SANYO reserves the right to modify product design and specifications without notice and without incurring any obligations.

^{*} Lamp life may vary due to room conditions, usage, and maintenance. The replacement time is a general estimate. The brightness of a lamp usually decreases over time and use.

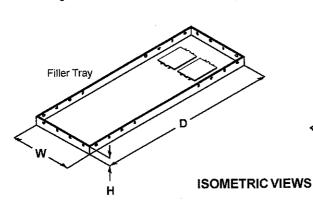


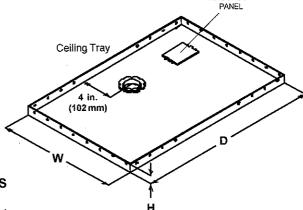
Back Pane

KNOCKOUT

	ght Suspen or Projecto	ded Ceiling r Mounts	Dimensions	Width	Depth	Height
Weight	Shipping	*Maximum	Ceiling	15.75"	24"	1"
	Weight	Load	Tray	(400 mm)	(610 mm)	(25 mm)
13.6 lb	14.6 lb	50 lb	Filler	8"	24"	1"
(6.2 kg)	(6.6 kg)	(23 kg)	Tray	(203 mm)	(610 mm)	(25 mm)

*Combined weight of all attached hardware and components.

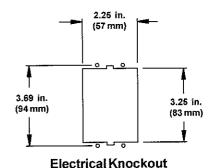




The Lightweight Suspended Ceiling Plate for Projector Mounts consists of an 8"(203mm) x 24"(610mm) filler tray and a 15.75"(400mm) x 24"(610mm) ceiling tray suspended by four tie wires from the true ceiling above. Turnbuckles allow the installation to be "fine tuned". The NPS threaded fitting in the ceiling tray serves as the point of attachment for a Peerless Projector Mount or other Peerless product specified as compatible with the Lightweight Suspended Ceiling Kit. Product may be attached directly or lowered with the addition of a Peerless NPS Extension Column available in several lengths. 20' (6.1m) of tie wire is provided (18 gauge annealed steel, soft, black) - enough for a 3' drop suspended ceiling. If the suspended ceiling is more than 3 feet from the true ceiling, the installer will need to obtain additional 12 gauge wire prior to installation.

Features:

- Five different projector mount attachment points
- Knockout panel for electrical outlet box (Raco 445 or Appleton 383 recommended) and antenna leads
- Scratch-resistant white fused epoxy finish



WARNING: Weight of product not to exceed maximum load capacity of 50 lbs. (23 kg)!

This product is intended for use with UL Listed products and must be installed by a qualified professional installer.

ARCHITECTS SPECIFICATIONS

The Lightweight Suspended Ceiling Plate shall be a Peerless model CMJ455 and shall be mounted where indicated on the plans. It shall contain a ceiling tray with a NPS center threaded fitting and a knockout panel for outlet boxes (Raco 445 or Appleton 383 recommended) and antenna leads. It shall also contain a filler tray. It shall feature a tie wire support system to transfer the load to four attachment points (in the true ceiling above) with turnbuckles to fine tune the level of the ceiling tray. It shall be U.L. Listed. The finish shall be White Fused Epoxy. Assembly and installation shall be done according to instructions provided by the manufacturer.

Peerless Industries, Inc. 3215 W. North Ave. Melrose Park, IL 60160 708-865-8870 800-865-2112 Fax 708-865-2941 www.peerlessmounts.com Issued: 05-27-99 Sheet #128-9521-6 09-03-09

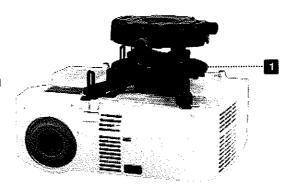
TECHNICAL DATA SHEET Lightweight Suspended Ceiling

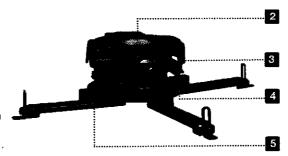
Plate for Projector Mounts

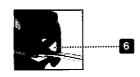
PRG Precision Gear Projector Mount

For Projectors up to 50 lb (22 kg)

- 1. Spider® Universal Adapter Piate extends up to 17.63" (448 mm) to fit most projector models
- 2. Cable management allows cables to be routed through projector mount and out of sight
- 3. Patent-pending precision gear provides ImageLock™ alignment to accurately hold image position, virtually eliminating any sag or drift
- 4. Two adjustment knobs control tilt and roll image alignment. Engage using a Phillips screwdriver or extend knobs to adjust by hand
- 5. Quick-release mechanism to easily service projector
- 6. Horizontal wrench access slots make flush mounting installations quick & easy
- 7. Pre-installed security screws provide optional tilt and roll lock to prevent tampering with adjustment knobs

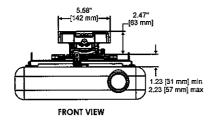


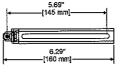


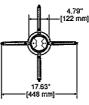


For expanded product information and technical data visit www.peerlessmounts.com

TECHNICAL DRAWINGS







CHANNEL DETAIL VIEW

TOP VIEW OF ADAPTER PLATE



MODELS

Universal Models:

Includes theft resistant hardware for attaching projector to mount

PRG-UNV Black PRG-UNV-S Silver PRG-UNV-W

Kitted Dedicated Models:

Includes dedicated projector adapter plate **PRG-MODELS** Black

Dedicated Models:

Projector adapter purchased separately Black

PRG-1

Dedicated adapter plates come in flat black and include security fasteners

PROJECTOR ADAPTER



Mounting pattern

Universal Models:

Up to 17.63" (448 mm)

Includes dedicated Kitted Dedicated Models:

projector adapter plate
Use MountFinderTM to verify model

Requires projector specific adapter plate to be purchased separately **Dedicated Models:**

SPECIFICATIONS



 $\pm 20^{\circ}$ | 360° (±15° when flush mounted) | $\pm 10^{\circ}$



Max load

50 lb (22 kg)

Product Dimensions (WxHxD)

> 8.5"-17.63" x 3.81"-4.81" Universal Models:

x 8.5"-17.63"

(216-448 x 97-122 x 216-448 mm) 5.58" x 2.47" x 5.58"

Dedicated Models: (142 x 63 x 142 mm)

Mounting Surfaces

Wood joist, concrete and other structures (Other structures require accessory)

Ship Weight

Universal Models: 3.78 lb (1.72 kg) 1.8 lb (.82 kg)

CERTIFICATIONS





RoHS ÜSE

ACCESSORIES



ACC, CMJ Models:

Geiling Platespg# 125, 127



AEC. EXT Models:

Extension Columns... pg# 127



PWA-14(S)(W): Projector Wall Armpg# 129

EX Models: Ceiling/Wall Extension Kits ... pg# 128





CALL: 800.865.2112



FAX: 708.865.2941

CONTOUR® ELECTROL®

Wall and Ceiling Mounted Electric Screen

- Stylish curved aluminum extruded case designed for wall or ceiling mount installations.
- · Adjustable mounting brackets make installation quick and easy.
- Built-in SCB-100, SCB-200 (RS-232 control), low voltage control, video projector interface and silent motor are available options. See page 16.

Seven veneer case finishes are optional for a warm, elegant look.



Optional graphite case finish for a more contemporary appearance.





For optional remote control operation, see options on pages 50-54.



Matte White fabric up to 10' high will be seamless. High Contrast Matte White and Video Spectra 1.5 fabrics up to 8' high will be seamless. High Power[®] fabric up to 6' high will be seamless.

VIDEO FORMAT

Viewli H	ng Area x W	Nom Diag		Over Length o		Matte White	High Contrast Matte White	Video Spectra 1.5	High Power⁵
in.	cm.	in.	cm.	ln.	cm.				
**************************************	109 x 145	%3 % 72"	183	693/4"	3 177 ·	Ny var a na		Na X	x
50" x 67"	127 x 170	84"	213	79³/₄" 93³/₅"	203	v	Y X	X	X
57" x 7.7" 60" x 80"	145 x 196 152 x 203	96" 100"	244 254	933/4"	238	Y	x	X	X
69" x 92"	175 x 234	120"	305	105¾" 129¼"	220	Y	XATAMAR X	x	X
87" x 116" 105" x 140"	221 x 295 267 x 356	150" 180"	381 457	153¾"	391	4888 x 200			X
120" x 160"	305 x 406	200"	508	1733/4"	441	X			

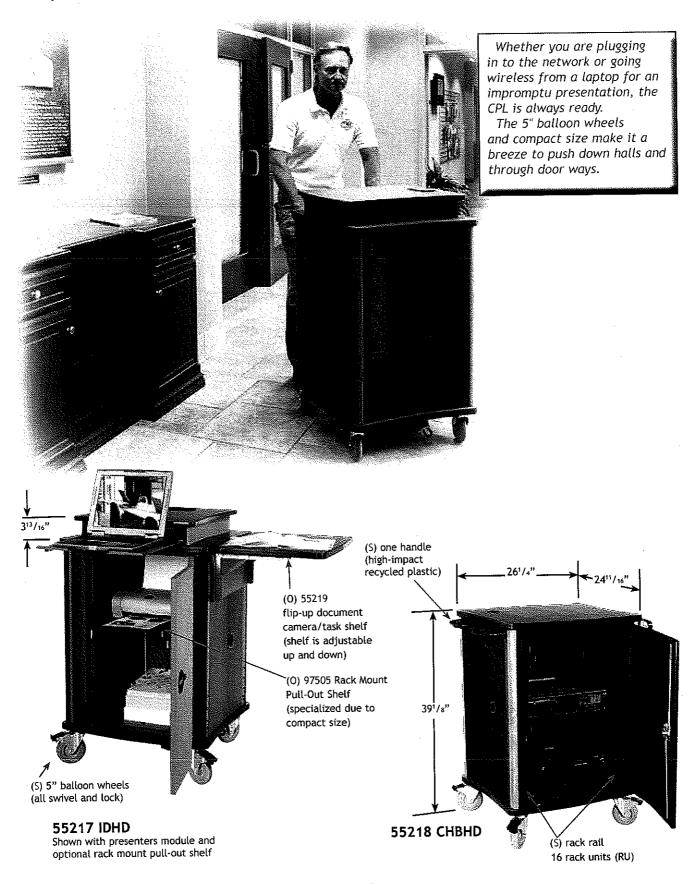
HDTV FORMAT

	Viewing Area H x W	in.	Nominai Diagonal	cm.	Overall Length of (in.		Matte White	High Contrast Matte White	Video Spectra 1.5	High Power*
45" x	80" 314 x 2	203 92"		234	9344"	238	X	57.555 .X 55557		x
52" x 54" x	92" 132 x 2	34 106		269	1053/4"	269		X Zana Xana		
58" x	104" 147 x 2	140	1	202	117³/₄" 129³/₄"	200	Y	X	X	Х
.65" x				404	12974 1533/J"	391	X	X	X	X

SQUARE FORMAT

`		Size H x W	•	Overall Length of Case		Matte White	High Contrast Matte White	. Video Spectra 1.5	High Power*
	In./ft.	cm.	in	, -	cm.				
1944	50" x 50"	127 x	127 59%	g verenskoven forfe	152	11.10 Y x (* 11.00	nesse che x elesces	SANSSA X ELER NACH	maradar k diferio
	60" x 60"	152 x			477	v	v	Y	X
	70" x 70"	178 x	178 79°	Millian kalang dan latah	203			AMERICAN SERVICES	gagaga a an X ilayahalan T
	84" x 84"	213 x 3	213 93°	k ⁿ	238	 	X X	X Charles Navional Table 1 (New York)	o an markwi s <mark>X</mark> ili an o nin na n
	6' x 8'	183 x				X	gendaleo x alaesala o	Salati eta Xararan eta	and all results and an extra
	8' x 8'	244 x :	244 105	3/4"	269	X 0000040, 10000900, 000	х Х	X 2. sesse ve v V vojst vojsko	
	7' x 9'					A. Sareka Xukusiki	ne serial, calvation X established at the	Superior of the property	Salatan da da 🔥 sa tanàna ao
	9' x 9'	274 x			299	X	araska x ír fellið	 10.00000000000000000000000000000000000	ore, kasor≎tarbarah
W.V.	8' x 10'			The rest of the second section of the second	330	,		Software North And Software Software	. : 1775
	10' x 10'	305 x			330	X 11802-11802-11 <u>2</u> 003-1802-1804		messeres meserrant v	e nes es co. 🗘 a eco teca
		274 x				ng pangua a x awasanasa	June El Signitude o Aldrein o rent Miles Printed Albei	STORY CONT. (A STORY CONT.) A STORY OF STORY CONT.	or only property and access
	12' x 12'	366 x	366 153	°/4"	391	X			

Compact Presentation Lectern (CPL)



SPECTRUM INDUSTRIES INC.

Order information:

Compact Presentation Lectern

copace 1 1 cool	TERCHOST ECCECTION	
color	with out Instructor Module	with Instructor Module
Wild Cherry/ Black (CHB)	55218 CHBHD	55217 CHBHD
Indigo Organix/ Dark Gray (ID)	55218 IDHD	55217 IDHD
Oak/ Black (KB)	55218 KBHD	55217 KBHD
Oak/ Putty (KP)	55218 KPHD	55217 KPHD

Standard (S) features

- 55217 CPL with the presenters module
 -Module dimensions are 3¹³/16"H x 21"W x 23⁵/8"D
 -Module Pull-Out Shelf dimensions are 17'/8"W x 15⁵/8"D x 2⁵/8"H
- . 55218 CPL without Presenters Module
- · Designed for indoor use only!
- Rack rail (28" Front 16 rack units) (19"D inside space)
- · 2-point locking system on front and rear doors
- Width with handle and shelf down is 32"
- · 20' Retractable Cord Reel
- 8-Outlet Power Strip
- 5" Locking Balloon Wheels
- Perforated panels for ventilation
- · Handle can be mounted on either side
- Computers and peripheral equipment shown in this catalog are used to illustrate product function only
- Meets or exceeds ANSI/BIFMA testing standards

General Options (0): (all options listed in RED are installed by customer, instructions included)

- 55141 Custom-Cut Logo Panel (an upcharge and lead time will apply)
- 55142 Replacement Key Set
- 55219 Flip-Up Document Camera/Task Shelf (217/s"D x 18"W) Shelf can be mounted on either side. It mounts from flush with the work surface to 6" below the work surface.
- 95508 Anti-skid Pad (17"W x 24"D)
- 95517 Rack Mount Wire Lace Kit (for better rack rail cable management)
- 95518 Non-Slip CPU Pad (11"W x 23"D)
- 97502 3RU, Rack Mount Cantilever Shelf (17⁷/₈"D)
- 97504 2RU, Rack Mount Cantilever Shelf (177/8"D)
- 97505 Rack Mount Pull-Out Shelf (173/4"D)
- 97506 Rack Mount Fan Double (3RU's)
- 97507 Rack Mount Fan Single (3RU's)
- 99021 9-outlet Rack Mount Power Strip (1RU's)
- 99023 6-Outlet Power Strip (15-amp circuit breaker)
- 99024 7-Outlet Power Strip (with surge protection guarantee)
- 99026 Data Cord Reel (retractable 15' data cord)
- Custom paint colors and laminates are available. An up-charge and lead-time may apply.

Compact Presentation Lectern



100% access to the front and rear of the lectern makes it easy to install and maintain multi-media equipment.



Custom-cut logo is an option that allows you to personalize your products.

The Custom-cut logo option requires a of

The Custom-cut logo option requires a one time program fee. After the logo is set up, there is a small up-charge per logo.



Podium Riser 95002

This attractive, high quality, stand alone riser will work anywhere a podium is needed.

Standard color combinations are: Wild Cherry/Black (95002 CHB) Indigo Organix/Black (95002 IB)



Standard color combination:



Black steel

 Wild Cherry laminate

(CHB)



Dark Gray steel

 Indigo Organix laminate

(ID)



Black steel

Oak laminate

(KB)



Putty steel

Oak laminate

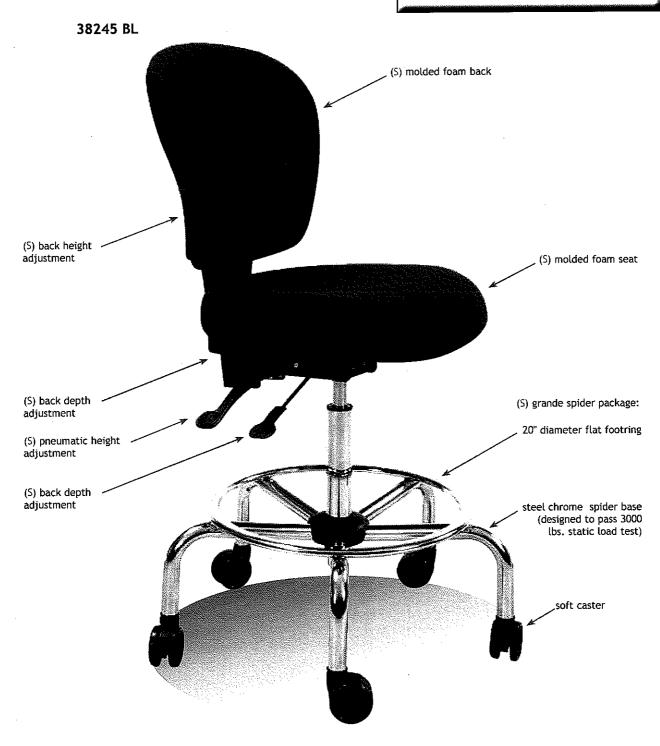
(KP)

SPECTRUM INDUSTRIES INC.

Adjustable Height Stools

Drafting, Instruction, and much more

Our Executive Drafting Stool is will give you peace of mind. Peace of mind from knowing you are backed up with user-friend ly control mechanisms and 12 year limited warranty.





The design of our new drafting/instructional Stool is based upon a wish list of features that come from various Facility Managers.

Standard features:

- · Pneumatic height adjustment
- · Trouble-free chrome foot ring
- · Easy-to-use ratchet back
- Sliding seat
- · Back angle adjustment
- Oversized casters
- Basic Fabric Collection (see below)

Optional features:

· Black Loop Arms 38219

Executive Drafting Stool

38245 Specifications:

Back	Seat	Seat Ht.	Overall Wid	th: 27"
17"W x 16 ¹ / ₂ "H	19"W x 19"D	25" - 33"	Overall Heig	ght: 43" - 53¹/2"
12 yr ltd warran	ty Arms: B	lack Loop	COM 1yd	Weight 59 lbs.

The Drafting Stool seat adjusts from 25" to 33" above the floor. A pneumatic lift mechanism provides the 10" range of height adjustment. The perfect instructional height setting is only a lever pull away.



Standard features:

- · Pneumatic height adjustment
- Pivot backrest
- · Back height adjustment
- · Back depth adjustment
- 18" chrome foot ring
- · Basic Fabric Collection (see below)

Optional features:

• Black Loop Arms 38219

Drafting Stool

38202 Specifications:

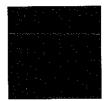
Back			Overall Wi		24"
17"W x 15"H	18"W x 18"D	23" - 33"	Overall He	eight:	40" - 52"
7 yr Itd warra	nty Arms: Bla	ck Loop	COM 1yd	Weig	ht 34 lbs.

The Drafting Stool seat adjusts from 23" to 33" above the floor. A pneumatic lift mechanism provides the 10" range of height adjustment. The foot rest ring can be easily adjusted for each individual.



Basic Fabric Collection (38202 & 38245)

- Fabric is 100% Marquesa Lana (Polyolefin) heavy duty fiber, with a 250,000 double rub rating
- · Seats and backs are filled with fire-resistant foam that meets California 117 fire rating
- · Fabrics are Teflon®-coated



Hunter Green (HG)



Blue (BL)



Burgundy



Light Gray

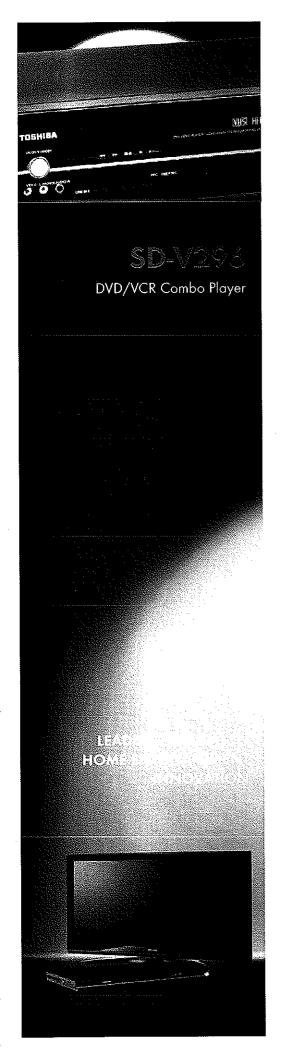


Black (BK)



Dark Brown (DB)





TOSHIBA Leading Innovation >>>

Fitting more entertainment value into less shelf space just got easier. With a DVD/VCR combo player, you get the connectivity and features without the clutter.



ADVANTAGE

Combines the picture and sound advantages of a **progressive scan DVD player** with the convenient recording^{1, 2} and playback options of a **video cassette recorder** - all in one slim chassis.

One Touch Recording for the VCR provides a simple and convenient way to make a recording. Simply connect your DVD/VCR to your cable or satellite box and then to your monitor/TV and you are set to record a tape with the push of one button!

ColorStream Pro® Progressive Scan Component Video Outputs compatible with today's finest analog and digital televisions for delivery of stunningly colorful images.

Simultaneous DVD playback and VHS Record for watching a DVD while recording a TV program.

JPEG Viewer³ enables a user to display digital photographs on a television set in the JPEG digital format.

PRELIMINARY

SD-V296 Specifications

P	L٨	//	(A	۱В	LE	D	IS	С	T	Y	Р	E.	5

	DVD-Video/DVD-R/DVD
	RW/CD/CD-R/CD-RW/VCD
DVD VIDEO	
Video D/A Converter	108MHz/14-Bit
Component Video Output	ColorStream Pro®
Progressive Scan	•
JPEG Viewer	•
Digital Picture Zoom	•
Fast Scan	•
Slow Motion	•
Multi-Camera Angle Select	•
Multi-Language Select	•
Multi-Subtitle Select	•
DVD AUDIO	
Audio D/A Converter	192kHz/24-Bit
Dolby® Digital/DTS® Compatible	•
3D Surround Sound	•
DVD CONVENIENCE	
Parental Lock	•
VCR VIDEO	
Video Heads	4
Record Speeds	SP/SLP (EP)
SQPB	•
VCR AUDIO	
Hi-Fi VHS Stereo	•
VCR CONVENIENCE	
Commercial Skip	•
OSD Language	English/French/Spanish
Remote Control	DVD/VCR Remote

TERMINALS

ColorStream Pro® Component	•			
Video Outputs	1 rear - DVD only			
S-Video Out	1 rear - DVD only			
RCA-Video Out	1 rear - both			
RCA-Video In	1 front & 1 rear			
L-R Audio Out	1 rear			
i-R Audio Inputs	1 front & 1 rear			
Coaxial Digital Audio Output	1 (DVD only)			

PRODUCT & PACKAGING

Unit Dimensions (WHD) in.	17.13 x 3.7 x 9.17			
Carton Dimensions	21.22 x 7.17 x 13.46			
Unit Weight	5.94 lbs			
Carton Weight	7.7 lbs			
UPC Code	022265001844			

Hi-speed Rewind

http://www.tacp.toshiba.com Customer Solutions: 800.631.381)
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82 Totowa Road, Wayne, NJ 07470 (2008). All Rights Reserved (7/08.1)

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Product design and specifications subject to change or modification without notice.

¹External tuner source required to record television programming.

²This product is not made or sold for unauthorized use of copyrighted works, and it is only intended for recording and playback of authorized content and any other lawful use.

³Some DVD-R/DVD-RW and CD-R/CD-RW discs may be incompatible due to laser pick up and disc design. CD-R/CD-RW discs must be recorded using CD-DA method for CD audio playback. The DVD player may not support some MP3/WMA/JPEG/DivX recordings due to differences in recording formats, disc structure, or condition of the disc (use of CD-RW for MP3 files is not recommended). See owner's manual for more information.

TPS-4000

Isys® 10.4" Tilt Touchpanel

The lsys TPS-4000 presents a stylish state-of-the-art touchpanel solution complete with integrated video and audio. A vibrant 640 x 480 10.4" touchscreen display delivers exceptional graphical performance to support a host of control applications.

Crestron touchpanels offer an ideal user-interface for multimedia presentation, videoconferencing, lighting, climate control, and much more, providing a wide-open canvas for the creation of custom control screens perfectly tailored to the needs of the end-user. Touchpanels do away with piles of remote controls, cryptic front panels, and cluttered wall switches, affording true "one-touch" control over a broad range of complex devices and systems.

isys®

lsys power and beauty are infused throughout Crestron's entire touchpanel lineup. Under the hood, the lsys engine produces astonishing full-color graphics with lightning-fast performance and incredible versatility. A 32-bit Freescale ColdFire® Microprocessor combines with an ingenious and ultra efficient operating system to support high-resolution graphics and images, dynamic text, full-motion video, animations, multimode objects (buttons, frames, gauges, and sliders), popup/dropdown subpages, and more.

Synapse™

Crestron's exclusive Synapse Image Rendering Algorithm enables system programmers to produce amazing graphics - faster and easier. Advanced antialiasing delivers crisper, sharper objects and text. Enhanced 3D effects add new depth and style. And because Synapse is native to the touchpanel, memory requirements and upload time are substantially reduced.

Video with Advanced Gamma Correction

Video capability is standard in the TPS-4000, accepting any NTSC/PAL composite or S-Video source, scalable for display in any sized window or full screen. Advanced gamma correction ensures accurate color reproduction.

Built-in Audio

Audio features include built-in amplified stereo speakers, volume control, line-level stereo input, and a microphone with automatic gain control and line-level output. The speakers may be used to amplify signals from TV and video sources, or to support programmable intercom functionality in combination with the microphone. Customized WAV files can be loaded on the touchpanel to add dimension to the touchscreen graphics with personalized sounds, button feedback, and voice prompts.

Cresnet®

Cresnet communication ensures compatibility with Crestron's complete product line.

Tiltcase Design

The TPS-4000 features an ergonomic tiltcase design that is easily adjustable for any angle of inclination between 30 and 80 degrees. Numerous versatile wiring and mounting options are also available.

- > 10.4" Active Matrix Touchscreen Display
- > 640 x 480 Resolution



- > Isys Graphics Engine
- > Synapse Image Rendering Algorithm
- > High-Performance Video with Gamma Correction
- > Built-in Amplified Speakers and Microphone
- > Cresnet Communications
- > Versatile Tiltcase Design

SPECIFICATIONS

Touchscreen Display

Display Type: TFT Active matrix color LCD Size: 10.4 inch (26.4 cm) diagonal

Aspect Ratio: 4:3 VGA Resolution: 640 x 480 pixels Brightness: 450 nits (cd/m²)

Contrast: 600:1

Color Depth: 18-bit, 256k colors Illumination: Edgelit fluorescent

Viewing Angle: ±70° horizontal, +45°/-55° vertical

Touchscreen: Resistive membrane

Processor

CPU: 32-bit Freescale ColdFire® Microprocessor

<u>Memory</u>

DRAM: 8 MB Flash: 8 MB

Maximum Project Size: 7 MB

Graphic Engine

lsys engine; 16-bit non-palette graphics; 65,536 colors; Synapse image rendering algorithm; multi-mode objects, color key video windowing



TPS-4000 lsys® 10.4" Tilt Touchpanel

Signal Types: Auto-detecting composite/S-Video

Formats: NTSC 480i or PAL 576i Color Depth: 18-bit; 262,144 colors

Features: Single-window scalable to full-screen, gamma correction

Hardware Features: Built-in microphone with defeatable AGC, built-in amplified stereo speakers, headphone output, internal volume control and audio mixer

Audio Feedback (WAV): 8-bit PCM, mono, 8 kHz sampling rate Amplification: 2 Watts per channel for built-in stereo speakers

Connectors

NET/VIDEO: (1) 10-pin RJ45 female, shielded;

Connects to interface module via 15 foot "siamese" cable provided; Contains Cresnet data, 24 Volts DC power, ground, and video signals

AUDIO: (1) 8-pin RJ45 female, shielded;

Connects to interface module via 15 foot "siamese" cable provided;

Contains stereo audio input and mic out signals

RS-232: (1) 6-pin RJ11 female;

Serial connection to PC for loading screen files;

Touchscreen output to PC or Telestrator;

Bidirectional RS-232 up to 115.2k baud;

Hardware and software handshaking support

HEADPHONES: (1) 3.5 mm TRS mini phone jack;

Connects to stereo headphones (not included);

Output Power: 12mW;

Minimum Impedance: 32 ohms

Power Requirements

22 Watts (0.92 Amp @ 24 Volts DC);

PW-2420RUpower supply sold separately

Cresnet Power Usage: 22 Watts (0.92 Amp @ 24 Volts DC)

If power is applied to the 24VDC jack and the NET port (on TPS-IMPC) simultaneously, power will be drawn from whichever is highest.

Environmental

Temperature: 50° to 113°F (10° to 45°C)

Humidity: 10% to 90% RH (non-condensing)

Enclosure

Construction: High impact black/silver injection-molded case

Screen Tilt: Adjustable 30 to 80 degrees

Dimensions

Height: 10.03 in (25.48 cm) Width: 10.96 in (27.83 cm) Depth: 9.32 in (23.67 cm)

4.66 lbs (2.11 kg)

Available Models

TPS-4000: Isys 10.4" Tilt Touchpanel

Included Accessories

TPS-IMPC Interface Module + 15 ft siamese cable [Included Quantity: 1]

Available Accessories

CRESCAT-D-NP-SP500: Crestron Home® CAT5 AV Cable, 2x CAT5e &

Cresnet, non-plenum, 500 ft spool

CRESNET-HP-NP-TL-SP1000: Cresnet® "High-Power" Control Cable, non-

plenum, teal, 1000 ft spool

CRESNET-HP-NP-TL-SP500: Cresnet® "High-Power" Control Cable, non-

plenum, teal, 500 ft spool

CRESNET-NP-BK-B500: Cresnet® Control Cable, non-plenum, black, 500 ft

CRESNET-NP-OR-B500: Cresnet® Control Cable, non-plenum, orange, 500

CRESNET-NP-TL-B250: Cresnet® Control Cable, non-plenum, teal, 250 ft

CRESNET-NP-TL-B500: Cresnet® Control Cable, non-plenum, teal, 500 ft

CRESNET-NP-TL-SP1000: Cresnet® Control Cable, non-plenum, teal, 1000

CRESNET-NP-TL-SP500: Cresnet® Control Cable, non-plenum, teal, 500 ft

CRESNET-NP-YL-B500: Cresnet® Control Cable, non-plenum, yellow, 500 ft

CRESNET-P-BK-SP500: Cresnet® Control Cable, plenum, black, 500 ft spool

CRESNET-P-OR-SP500: Cresnet® Control Cable, plenum, orange, 500 ft

CRESNET-P-TL-SP1000: Cresnet® Control Cable, plenum, teal, 1000 ft

CRESNET-P-TL-SP500: Cresnet® Control Cable, plenum, teal, 500 ft spool

CRESNET-P-YL-SP500: Cresnet® Control Cable, plenum, yellow, 500 ft

HBK-3000: Hatchback Rear Cover

PW-2420RU: Power Pack, Desktop, 24VDC, 2A (50 Watts), Regulated, US/

SMK-3000: Swivel Mount Kit & Rear Cover

ST-PK: Programming Cable Kit

TPS-4500IMPC: Interface Module, no Audio

TPS-CBL-3: Interface Cable, 3 ft

TPS-CBL-6: Interface Cable, 6 ft

TPS-CBL-9: Interface Cable, 9 ft

TPS-CBL-S3: Siamese Interface Cable, 3 ft

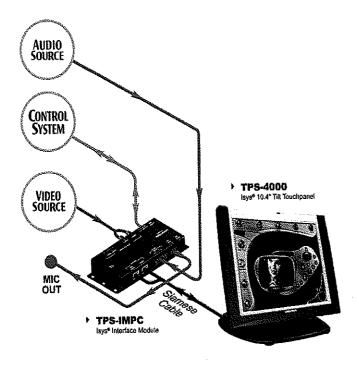
TPS-CBL-S6: Siamese Interface Cable, 6 ft

TPS-CBL-S9: Siamese Interface Cable, 9 ft

TPS-IMW: Wall Mount Interface Module TPSBLOCK-10: Panel Mount 10-pin Connector Solution

TPS-4000 lsys® 10.4" Tilt Touchpanel

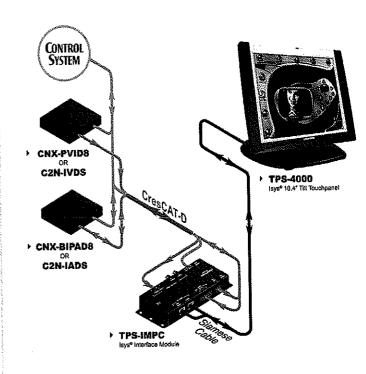
TPS-4000 using conventional AV sources



Color Key

- Control
- Video
- Audio ⊕ LAN
- CAT5E ♠ RGB
- Cresnet CresCAT

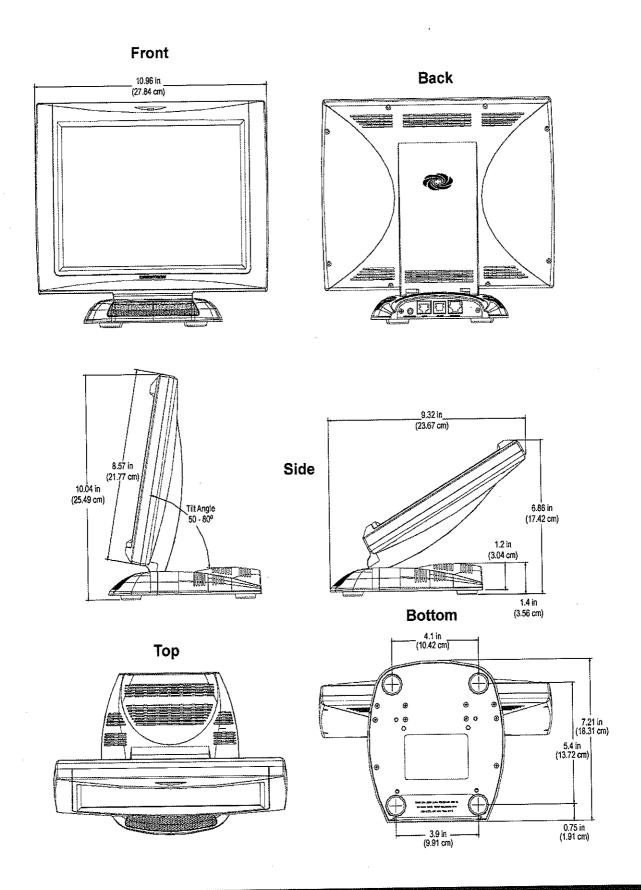
TPS-4000 in a CH CAT5 AV Distribution System



Color Key

- Control
- Video
- Audio LAN
- CAT5E RGB
- Cresnet
- CresCAT

TPS-4000 lsys® 10.4" Tilt Touchpanel



Crestron MPS-300

MediaManager

Multimedia Presentation System 300



- > System switcher, audio processor, and control system
- > Out-of-the-box switching and audio control
- > 2 video/HDTV and 3 RGB/computer inputs
- > 3 QuickMedia inputs with delay skew compensation
- > Built-in input signal sensing / auto-switching capable
- > Discrete composite, S-Video, component, and RGB outputs
- > NEW! RGB Pass-thru mode for easy integration with DigitalMedia
- > 3 QuickMedia and 1 Crestron Home CAT5 AV outputs
- > 5 balanced stereo audio inputs
- > 2 gated mic inputs with compressor & limiter
- > 8-channel mic mixing w/4-band EQ per channel
- > Separate program, speech, and record outputs
- > Graphic and parametric equalization I 40mS audio delay
- > Built-in 40 watt amplifier stereo, 70V, or 100V models
- > 2-Series control engine I e-Control 2 Web server
- > 10/100 Ethernet I RoomView and SNMP support
- > 2 RS-232, 4 IR, 4 digital in, & 4 relay control ports
- > Front panel setup and control | Backlit LCD display
- > Keypad, touchpanel, and wireless control options
- > Internal power supply I 2-space rack-mountable

The MPS-300 is a complete presentation control and signal routing solution for boardrooms and classrooms. Integrating the control system, multimedia matrix switcher, mic mixer, audio processor, amplifier, and QuickMedia distribution center all into a single 2-space rackmount package, the MPS-300 affords considerable signal routing versatility and high-performance signal processing without the need for separate components.

System Switcher—Right out of the box, the MPS-300 provides high-performance switching of 2 video and 3 RGB computer sources to a single projector or flat-panel display. Composite, S-Video, component and RGBHV signals can be routed to the appropriate inputs on the display device, with control of the display provided via Ethernet, RS-232 or IR. Input signal sensing is provided on every video and RGB input to enable auto-switching functionality and provide device power status information to the control system. Selectable sync impedance on the RGB inputs helps accommodate cable runs of varying lengths.

Versatile matrix switching inside the MPS-300 actually affords some additional hidden signal routing flexibility, providing discrete switchable outputs for RGB, composite, S-Video, and component signals. For instance, Outputs 1 and 2 can function as separate composite and S-Video outputs, or as a single component output; Output 3 can be a single component, S-Video, or composite output; and Output 4 can be used for either RGB or component. Each output is fed by a separate matrix crosspoint, so they all can be active simultaneously and assigned any relevant input source.

NEW! RGB Pass-thru mode provides a quick path to integration with the ground-breaking Crestron DigitalMedia™ system. With just a single 15-pin VGA cable connected to a DM-MD6X1 DigitalMedia switcher, DMC-DVI input card, or any other DM product with an RGB input, the MPS-300 automatically routes whatever video signal is selected — whether RGB, component, S-Video, or composite — allowing seamless conversion to digital for distribution to HDTV displays and projectors throughout your facility.

QuickMedia® Matrix—In addition to its conventional type video inputs and outputs, the MPS-300 accommodates additional sources and display devices via the Crestron exclusive QuickMedia (QM) transport. Three QM inputs accept

connections from QM Wall Plates, FlipTop Boxes, and Distribution Centers, providing an abundance of additional inputs for AV, computer, and microphone sources. Three QM outputs are also provided, each independently controllable to feed multiple displays and other devices.

QuickMedia provides a very streamlined, low-cost, long-distance wiring solution. The QuickMedia transport transmits high-resolution RGB, HD video, stereo program and microphone audio signals up to 450 feet over a single inexpensive CAT5e type cable. Just one CresCAT-QM cable and a QM receiver are all that is required for complete signal routing and device control, eliminating all the bulky, expensive cabling that would otherwise be needed. A full range of QM transmitters, receivers, and other products is offered by Crestron to suit any application.

Touchpanel Output—Any of the QM outputs may be utilized to feed a preview signal to the system touchpanel. Additionally, one Crestron Home® (CH) CAT5 Balanced Video output is included, its signal corresponding with the first QM output, providing for simplified wiring to a complete range of Crestron touchpanels. Each QM output supports high-resolution RGB and HDTV plus audio, while the CH output is limited to standard video and HDTV only (dependent upon the capabilities of the touchpanel).

8-Channel Microphone Matrix Mixing—Two gated microphone/line inputs are included on the MPS-300 complete with software-switchable 48V phantom power and independently adjustable compression and limiting. Up to 6 additional microphone signals can be brought in through the 3 QM inputs, with 4-band speech-optimized equalization provided on all 8 mic channels. Sophisticated matrix mixing allows for six completely different mixes of all 8 microphones—three mixes feeding local Program, Speech, and Record outputs, and three additional mixes feeding the 3 QM outputs.

Professional Audio Features—Five stereo audio inputs on the rear panel accept balanced or unbalanced line-level signals from computers and other program audio sources. Additional audio sources can be brought in through the 3 QM inputs. To accommodate a wide range of signals, adjustable input compensation is employed to help maintain consistent volume levels when switching between sources. Versatile matrix mixing allows the selected program signal and the 8 microphone signals to be separated or mixed in any combination to feed 3 local audio outputs outputs, each with its own unique mix.

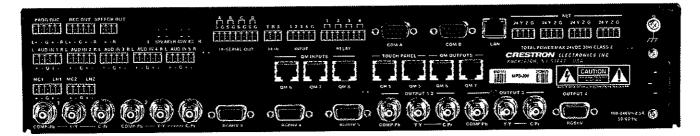
Three "local" balanced line level outputs are provided on the MPS-300, each with independent adjustments for volume, bass, treble, and mute. The stereo PROGRAM and mono SPEECH outputs are normally intended for driving external amplification, with relay muting on each output to prevent "thumping" on power up. The RECORD output allows for a separate stereo mix to feed a recording device or or assistive listening system. Ten-band graphic equalization plus 2-band parametric equalization on each output eliminates the need for expensive outboard audio processors, and up to 40mS delay adjustment is available on the SPEECH output for proper loudspeaker alignment.

The 3 QM outputs are controlled separately from the other audio outputs, allowing 3 different program sources and 3 different microphone mixes to be monitored on touchpanels and output to additional audio equipment by way of an appropriate QM receiver or other QuickMedia device(s).

Built-in Amplifier—A 40-watt amplifier is built into the MPS-300, with three models available offering the choice of 8-ohm stereo, 70V mono, or 100V mono outputs. For large rooms requiring more power, the MPS-300 supports plug-and-play compatibility with Crestron QM-Series 3-channel amplifiers, providing a complete solution for driving a professional loudspeaker system with separate program and speech channels.

Front Panel Control—Out of the box, the MPS-300 front panel supports easy pushbutton routing of input sources to each of the outputs, and audio volume adjustment using the volume control knob. Dedicated buttons and indicators are





also provided for separate control of system power and projector power. In addition, five preset buttons are included for custom functions such as lowering a projection screen, closing blinds, or selecting a lighting preset.

The front panel label strips are easily customized using Crestron Engraver software or standard 3/8" tape labels, allowing for the clear designation of each input, output, and preset button. When selected, these functions will also appear on the LCD display as generic names (Input 1, 2...), or as custom names (DVD, Podium PC, Screen Up, etc.).

Easy setup of the MPS-300 is facilitated through the LCD display without necessitating a computer. Together with 4 softkey buttons, 4 menu navigation buttons and the volume knob, the LCD enables configuration of IP network, audio, and other system settings. For security, the front panel controls can be password protected or locked out.

2-Series Control System—Integrated into the MPS-300 is a Crestron 2-Series Ethernet control system complete with e-Control®2 Web server and a host of RS-232, IR, digital input and relay control ports for integration with third-party equipment. Anything from a basic AV presentation room with a single projector, screen, and keypad controller, to a fully custom touchpanel based system with multiple controlled sources and display devices, can be programmed easily using Crestron SystemBuilder™ software. And, the MPS-300 works with Crestron RoomView® Help Desk software, the industry's most comprehensive facility-wide asset management solution.

Room Centrol Options-Without requiring any programming, the MPS-300 can be controlled simply using a Crestron APAD LCD Controller or a selection of keypads. With custom programming, our complete line of Isys™ touchpanels and MediaManager FlipTops is supported. Equipped with an optional CNXRMIRD IR receiver, the MPS-300 allows any Crestron IR wireless touchpanel or handheld remote to be used for a low-cost wireless control solution. Or, adding an RF wireless gateway or Wi-Fi access point enables use of a wide range of 1-way and 2-way RF wireless handheld remotes and touchpanels.

AVAILABLE MODELS

Multimedia Presentation System w/Stereo Amplifier

Multimedia Presentation System w/70 Volt Amplifier

Multimedia Presentation System w/100 Volt Amplifier

SPECIFICATIONS

Processor

CPU: 32-bit Freescale ColdFire® Microprocessor

Memory

32 MB SDRAM, 256 KB NVRAM, 16 MB Flash

Operating System

Real-time, preemptive, multitasking kernel, multi-threaded; FAT32 file system with long names; supports SIMPL™ Windows* and SIMPL+*

Ethernet

10/100BaseT, static IP or DHCP/DNS, SSL, auto-negotiating, full duplex TCP/IP, UDP/IP, CIP, SMTP, SNMP, built-in Web server and e-mail client; supports Crestron e-Control®2 XPanel and RoomView® applications

Video

Switcher: 8x7 crosspoint matrix including 3x3 QM signal routing, local QM delay skew compensation, RGB pass-thru mode (multi-format via RGB output connection) Signal Types: RGB and composite, S-Video, or component video (does not transcode)

Video/HDTV Formats: NTSC or PAL, HDTV up to 1080i/1080p

RGB Formats: RGBHV, RGBS, RGsB

Maximum Resolution: 2048 X 1536 @ 60Hz (1920 X 1200 @ 60Hz via QM)

Blanking Time: < 0.1 second

Sync Rise/Fall Time: 3.5 ns maximum

Sync Latency: < 30 ns

Gain: 0dB (75 ohms terminated)

QM Cable Compensation: 10-bit digitally controlled PEAK (bandwidth) and BOOST (frequency); 4-bit digitally controlled SKEW delay, 0 to 22 ns (independent for R, G, and B)

Switcher/Preamp: 8x4 stereo crosspoint matrix including 3x3 QM signal routing, 2-channel gated mic preamp with compressor & limiter, 8-channels mic EQ, 10X5 mic/program matrix mixer, 8x2 mic matrix mixer per each of 3 QM outputs, stereo volume/tone control and EQ per each of PROGRAM and RECORD outputs, mono volume/tone control and EQ/delay on SPEECH output, integrated power amplifier, QM auto-compensation with self-peaking

A-D/D-A Conversion: 24-bit, 48 kHz

Volume Range: -80 to +20 dB, 0.1dB steps (output); -80 to 0 dB, 0.1dB steps (mixer)

Mute: -100dB (electronic), -120dB (relay) Input Compensation: ±10dB, 0.1dB steps

Mic input Gain: 0 to 100 % (40dB range) plus mute

Gate Level (Threshold): 0 to 100 % Gate Attack: 0 to 100 mS

Gate Decay (Release): 0 to 5000 mS Gate Depth: -80dB (mute) to 0dB, 0.1dB steps Compression Threshold: -80dB to +20dB, 0.1dB steps

Limit Threshold: 0dB to 20dB, 0.1dB steps

Comp/Lim Attack: Separately adjustable 0.1 to 300 mS Comp/Lim Release: Separately adjustable 1 to 500 mS

Compression Ratio: 1.0:1 to 10.0:1

Comp/Lim Curve: Separately selectable hard or soft knee Mic EQ: ±12dB, 0.1 dB steps at 160, 500, 1.2k, and 3k Hz Bass/Treble: ±12dB, 0.5dB steps at 100Hz and 10kHz

Output Equalization: 10-band graphic (GEQ) + 2-band parametric (PEQ) GEQ: ±12dB, 0.1dB steps at 31, 63, 125, 250, 500, 1k, 2k, 4k, 8k, and 16k Hz

PEQ Filter Gain/Center Frequency: ±12dB, 0.1dB steps at 25Hz to 20kHz, 0.5Hz steps

PEO Filter Bandwidth: 0.1 to 3.0 octaves, 0.1 octave steps

PEQ Filter Types: Low Pass, High Pass, Peaking Eq, Notch, Treble Shelf, Bass Shelf

Speech Output Delay: 0 to 40 mS, 1mS steps

Frequency Response: 20Hz to 20kHz ±0.5dB (PROG/REC OUT), 50Hz to 20kHz ±0.5dB (SPEECH OUT), 20Hz to 20kHz ±0.5dB (SPEAKER @ 8 ohms), 100Hz to 20kHz ±1.5dB (SPEAKER @ 70V or 100V)

S/N Ratio: 95dB (PROG/REC OUT @ 10dBV, 20Hz to 20kHz A-weighted), 95dB (SPEECH OUT @ 10dBV, 50Hz to 20kHz A-weighted), 90dB (SPEAKER @ 8 ohms, full output, 20Hz to 20kHz A-weighted), 90dB (SPEAKER @ 70V or 100V, full output, 20Hz to 20kHz

THD+N: 0.02% (PROG/REC OUT @ 10dBV, 20Hz to 20kHz), 0.02% (SPEECH OUT @ 10dBV, 50Hz to 20kHz), 0.7% (SPEAKER @ 8 ohms, full output, 20Hz to 20kHz), 0.7% (SPEAKER @ 70V or 100V, full output, 100Hz to 20kHz A-weighted)

Stereo Separation: -80dB (PROG/REC OUT @ 10dBV, 20Hz to 20kHz), -60dB (SPEAKER @ 8 ohms, full output, 20Hz to 20kHz)

Channel Crosstalk: -80dB (AUD IN @ 10dBV, 20Hz to 20kHz)

Connectors - Audio

PROG OUT: (1) 5-pin 3.5mm detachable terminal block, stereo line-level output Output Impedance: 200 ohms balanced, 100 ohms unbalanced Maximum Output Level: 4 Vrms balanced, 2 Vrms unbalanced

REC OUT: (1) 5-pin 3.5mm detachable terminal block, stereo line-level output Output Impedance: 200 ohms balanced, 100 ohms unbalanced Maximum Output Level: 4 Vrms balanced, 2 Vrms unbalanced Note: Does not include relay mute

SPEECH OUT: (1) 3-pin 3.5mm detachable terminal block, mono line-level output Output Impedance: 200 ohms balanced, 100 ohms unbalanced Maximum Output Level: 4 Vrms balanced, 2 Vrms unbalanced

SPEAKER: (1 or 2) 2-pin 5mm detachable terminal blocks, speaker-level audio outputs Wire Size: Connector accepts 12 AWG maximum

Output Power (MPS-300): 20W RMS per channel stereo into 8 ohms, 4 ohms tolerant

Output Power (MPS-300-70V): 40W RMS mono at 70 Volts
Output Power (MPS-300-100V): 40W RMS mono at 100 Volts

AUD IN 1 - 5: (5) 5-pin 3.5mm detachable terminal blocks, stereo line-level inputs Input Impedance: 24k ohms balanced/unbalanced Balanced Input Level: -20 to +12 dBV; 4 Vrms maximum Unbalanced Input Level: -20 to +6 dBV; 2 Vrms maximum

MC/LN 1 - 2: (2) 5-pin 3.5mm detachable terminal blocks, comprises (2) mic/line inputs Baianced Mic Input Level: -52 to -12 dBV, 240 mVrms maximum Balanced Line Input Level: -28 to +11 dBV, 3.7 Vrms maximum Input Level: -24 to +5 dBV 1.85 Vrms maximum

Unbalanced Line Input Level: -34 to +5 dBV, 1.85 Vrms maximum Mic Input Impedance: 3.9k ohms, accepts 60 to 600 ohm source Line Input Impedance: 19k ohms balanced, 9.5k ohms unbalanced

Phantom Power: 10 mA (total) @ 48 Volts DC, software enabled to both mic inputs

Connectors - Video

COMP/Pb, Y/Y, C/Pr 1 - 2: (2) sets of (3) BNC female video inputs Each set configurable as:

(1) Component/HDTV (YPBPR) video input, or

(1) S-Video (Y/C) input, or

(1) Composite input Input Level/Impedance: 1 Vp-p, 75 ohms, nominal DC Offset: Insensitive to DC offset (AC coupled)

Video signal sensing on COMP/Pb or Y/Y

RGBHV 3 - 5: (3) DB15HD female, RGBHV or Component/HDTV inputs

Formats: RGBHV, RGBS, RGsB, or YPbPr

RGB/Video Input Level/Impedance: 1 Vp-p, 75 ohms, nominal

H/V Sync Input Level: 2 to 5 Vp-p

H/V Sync Input Impedance: 75, 500, or 1k ohms individually selectable for H and V Video signal sensing on H, Gs, and Y; defeatable DDC pull-up resistors

QM INPUTS 6 - 8: (3) 8-wire RJ45 female, QuickMedia input ports

Signal Types: Dynamically configurable for RGBHV, component (YPbPr), S-Video (Y/C), or composite video with stereo program and 2-channels microphone audio; RGB Format: RGBHV, RGBS, RGsB

RGB Input Resolution, Non-interlaced: 1920 x 1200 maximum (60Hz limit at 1600 x 1200 or higher);

Video/HDTV Formats: NTSC or PAL, HDTV up to 1080i/1080p

Delay Skew Compensation: 0 to 22 nS

Connect to QM outputs of QuickMedia devices via CRESCAT-QM or CRESCAT-iM cableⁱⁱⁱ

COMP/Pb OUTPUT 1: (1) BNC female

Composite video output, or Pb of secondary component/HDTV video output Output Level/Impedance: 1.0 to 1.1 Vp-p (terminated, with 1 Vp-p input), 75 ohms nominal

Y/Y, C/Pr OUTPUT 2: (2) BNC female

S-Video (Y/C) video output, or Y and Pr of secondary component/HDTV video output Output Level/Impedance: 1.0 to 1.1 Vp-p (terminated, with 1 Vp-p in), 75 ohms nominal

COMP/Pb, Y/Y, C/Pr OUTPUT 3: (3) BNC female, configurable as:

(1) Component/HDTV (YPbPr) video output, or

(1) S-Video (Y/C) output, or

(1) Composite output

Output Level/Impedance: 1.0 to 1.1 Vp-p (terminated, with 1 Vp-p in), 75 ohms nominal

RGBHV OUTPUT 4: (1) DB15HD female

RGBHV, component, S-Video, and composite video output Formats: RGBHV, RGBS, RGsB, YPbPr, Y/C, composite

RGB/Video Output Level: 0.7 to 0.75 Vp-p (terminated, with 0.7 Vp-p input, unity gain) RGB/Video Output Impedance: 75 ohms nominal

H/V Sync Output Level/Impedance: 4 to 5 Vp-p, 55 ohms

H/V Sync Polarity: Follows input

TOUCHPANEL CH 5: (1) 8-wire RJ45 female, CAT5 balanced video output port Dynamically configurable for component (YPbPr), S-Video (Y/C), or composite video Video/HDTV Formats: NTSC or PAL, HDTV up to 1080i

Output Impedance: 100 ohms balanced

Connects to CH CAT5 balanced video input port of a compatible touchpanel or other device via CresCAT cable

TOUCHPANEL QM 5: (1) 8-wire RJ45 female, QuickMedia output port

Signal Types: Dynamically configurable for RGBHV, component (YPbPr), S-Video (Y/C), or composite video with stereo program and 2-channels microphone audio;

RGB Format: RGBHV, RGBS, RGsB

RGB Output Resolution, Non-interlaced: 1920 x 1200 maximum (60Hz limit at 1600 x 1200 or bioher):

Video/HDTV Formats: NTSC or PAL, HDTV up to 1080i/1080p

Connects to QM input port of a compatible touchpanel or other QuickMedia device via CresCAT-QM or CresCAT-IM cable⁽¹⁾

QM OUTPUTS 6 - 7: (2) 8-wire RJ45 female, QuickMedia output ports

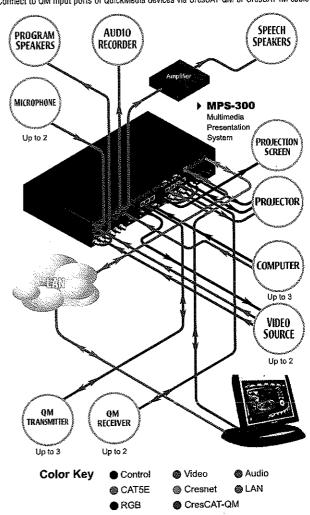
Signal Types: Dynamically configurable for RGBHV, component (YPbPr), S-Video (Y/C), or composite video with stereo program and 2-channels microphone audio;

RGB Format: RGBHV, RGBS, RGsB

RGB Output Resolution, Non-interlaced: 1920 x 1200 maximum (60Hz limit at 1600 x 1200 or higher);

Video/HDTV Formats: NTSC or PAL, HDTV up to 1080i/1080p

Connect to QM input ports of QuickMedia devices via CresCAT-QM or CresCAT-IM cable^{FI}





Connectors - Control & Power

IR/SERIAL OUT A - D: (4) 2-pin 3.5mm detachable terminal blocks, IR/Serial output ports IR output up to 1.2 MHz, 1-way serial TTL/RS-232 (0-5 Volts) up to 9600 baud

IR IN: (1) 3-pin 3.5mm detachable terminal block, for CNXRMIRD IR Receiver (sold separately), allows control from IR wireless remotes using RC-5 command set

INPUT 1 - 4: (1) 5-pin 3.5mm detachable terminal block

Comprises (4) digital/contact closure inputs, rated for 0-24 Volts DC, referenced to GND Input Impedance: 2.2k chms pulled up to 5 Volts DC

Logic Threshold: 2.5 Volts DC nominal with 1 Volt hysteresis band

RELAY 1 - 4: (1) 8-pin 3.5mm detachable terminal block

Comprises (4) normally open, isolated relays

Rated 1 Amp, 30 Volts AC/DC; MOV arc suppression across contacts

COM A - B: (2) DB9 male, bidirectional RS-232 ports

Up to 115.2k baud, hardware and software handshaking support

LAN: (1) 8-wire RJ45 with 2 LED indicators, 10/100BaseT Ethernet port Green LED indicates link status, yellow LED indicates Ethernet activity

NET: (4) 4-pin 3.5mm detachable terminal blocks, Cresnet Master ports, paralleled Available Cresnet Power: 30 Watts

G: (1) 6-32 screw, chassis ground lug

100-240V-2.5A: (1) IEC Socket, main power input, removable power cord included

COMPUTER (tront): (1) USB Type B female, computer console port, cable included

LCD Display

Green LCD alphanumeric, adjustable backlight, 2 lines x 20 characters per line, displays input/output names, volume level, setup menus, time/date, and other system information

Controls and Indicators

NET: (1) yellow LED, indicates Cresnet bus activity

MSG: (1) yellow LED, indicates control system has generated an error message

HW-R: (1) recessed miniature pushbutton for hardware reset, reboots the control system

SW-R: (1) recessed miniature pushbutton for software reset, restarts the SIMPL program

SYS PWR: (1) pushbutton and green LED, controls system power

PROJ PWR: (1) pushbutton and green LED, controls display device power

SOFTKEYS: (4) pushbuttons for activation of LCD driven functions and passcode entry MENU: (1) pushbutton, steps menu back one level

A,V: (2) pushbuttons, scroll up or down through menu and adjust menu parameters

ENTER: (1) pushbutton, executes highlighted menu or value

VOLUME: (1) continuous turn rotary encoder, adjusts menu parameters, defaults to program audio volume

FUNCTION 1 - 5: (5) pushbuttons and red LEDs, programmable

IN 1 - 8: (8) pushbuttons and red LEDs, select input to be routed

OUT 1 - 7: (7) pushbuttons and red LEDs, select output destination

Power Requirements

Main Power: 2.5 Amps @ 100-240 Volts AC, 50/60 Hz

Available Cresnet Power: 30 Watts

Environmental

Temperature: 41° to 104°F (5° to 40°C)
Humidity: 10% to 90% RH (non-condensing)

Enclosure

Chassis: Steel, black matte powder coat finish, convection-cooled, vented top and sides Faceplate: Extruded aluminum, black matte powder coat finish with polycarbonate label overlay.

AVAILABLE ACCESSORIES

APAD

Wall Mount LCD Controller

C2N-DB12

12-Button Decorator Keypad

CNX-B12

12-Button Designer Keypad

C2N-FTB

FlipTop Control Center

CNXRMIRD

IR Receiver

QM-AMP3X80MM

3-Channel Multimedia Amplifier

DM-AMP3X80SR

3-Channel Sound Reinforcement Amplifier

CNSP-XX

Custom Serial Interface Cable

IRP2

IR Probe

C2N-MNETGW

infiNET Gateway

CLW-DIM1RF and CLW-SW1RF

infiNET Dimmer and Switch

CLS-C6

iLux Integrated Lighting System

Mounting: Freestanding or 28 19" rack-mountable (adhesive feet and rack ears included)

Dimensions

Height: 3.56 in (90 mm), 3.47 in (88 mm) without feet Width: 17.03 in (433 mm), 19.0 in (483 mm) with ears

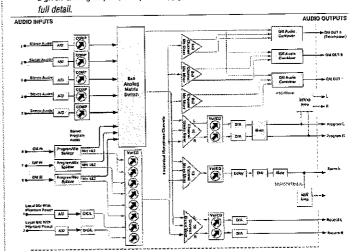
Depth: 12.58 in (320 mm)

Weight

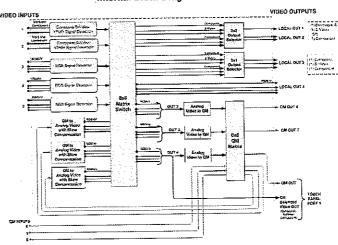
MPS-300: 10.1 lb (4.6 kg)

MPS-300-70V/100V: 11.9 lb (5.4 kg)

 For QuickMedia wiring use CresCAT-QM, CresCAT-IM, or quality CAT5e/CAT6 cable with a delay skew of ≤15nS per 100m; the maximum aggregate cable length and delay skew between any QM transmitter (origination point) and QM receiver (endpoint) is 450 ft (137 m) and 22 nS; a maximum of two QM midpoint devices may be inserted in a given QM signal path; exceptions apply, refer to each respective product manual for



Internal Block Diagram - Audio



Internal Block Diagram - Video

RoomView® Express

Remote Help Desk and Resource Management Software

RoomView® Server Edition

Enterprise Management and Scheduling Software

QM-RX

QuickMedia® Receiver

The QM-RX is a QuickMedia® receiver designed to provide cost-effective RGB and video signal routing and control as part of a complete MediaManager AV presentation system. Using Crestron's exclusive QuickMedia transport, the QM-RX receives RGB and video signals over a single inexpensive CAT5e type cable* from any QuickMedia Wall Plate, FlipTop Box, or Distribution Center.

Mounted at the projector or plasma display location, the QM-RX breaks out composite video, S-Video, and RGBHV signals to feed the respective inputs on the display device. All signal routing occurs automatically under the command of the control system based upon the input source type selected.

The QuickMedia transport supports the transmission of RGB signals with resolutions up to 1920 X 1200 pixels at 60Hz. Software-controllable frequency, bandwidth, and skew compensation adjustments are provided to maximize image quality over cable runs up to 450 feet long with up to 22 nS of delay skew.

The QM-RX includes one bidirectional RS-232 port and one IR/Serial port for control of the display device. A digital input port is also included to enable direct connection of a room occupancy sensor, power sensor, or any contact closure device.

Wiring for the QM-RX is extremely simple requiring just a single CresCAT®QM cable (sold separately). Complete MediaManager systems are easy to design, program and adjust from start to finish using Crestron SystemBuilder™ software.

- > QuickMedia Receiver
- > Composite, S-Video and RGB outputs
- > RS-232, IR, and digital in control ports
- > Optional power current sensor

SPECIFICATIONS

<u>Video</u>

Signal Types: RGB and composite, S-Video, or component† video Video/HDTV Formats: NTSC or PAL, HDTV up to 1080i/1080p†

RGB Formats: RGBHV, RGBS, or RGsB Gain: 0dB (75 ohms terminated)

Maximum Resolution: 1920 x 1200 @ 60Hz (at unity gain) with maximum cable length of 450 feet and maximum compensation

QM Cable Compensation: 10-bit digitally controlled PEAK (bandwidth) and BOOST (frequency); 4-bit digitally controlled SKEW delay, 0 to 22 ns (independent for R/Pr, G/Y, and B/Pb)

Connectors - Front Panel

QM: (1) 8-wire RJ45 female, QuickMedia input port;

Connects to QM output port of any QuickMedia device via CresCAT-QM or CRESCAT-IM cable*

NET: (2) 4-pin 3.5mm detachable terminal blocks; Cresnet ports (paralleled), Master/Slave selectable; Connect to Cresnet control network via CresCAT-QM or Cresnet cable



Connectors - Rear Panel

RGBHV: (1) DB15HD female, RGB(VGA)/component video† output;

Formats: RGBHV, RGBS, RGsB, YPbPr;

Output Level: 1 Vp-p nominal; Sync Level: 5 Vp-p nominal; Output Impedance: 75 ohms; H/V Sync Impedance: 100 ohms

S-VIDEO: (1) 4-pin mini DIN female, S-Video (Y/C) output;

Output Level: 1.0 Vp-p (luma), 0.7 Vp-p (chroma);

Output Impedance: 75 ohms

VIDEO: (1) BNC female, composite video output;

Output Level: 1.0 Vp-p; Output Impedance: 75 ohms G: 6-32 screw, chassis ground lug

COM: (1) DB9 male, bidirectional RS-232 port;

Up to 115.2k baud, hardware and software handshaking support

IR: (1) 2-pin 3.5mm detachable terminal block;

IR/Serial port;

IR output up to 1.2 MHz;

1-way serial TTL/RS-232 (0-5 Volts) up to 9600 baud

INPUT 1: (1) 2-pin 3.5mm detachable terminal block;

Digital/contact closure input;

Rated for 0-24 Volts DC, referenced to GND;

input impedance: 2.2k ohms pulled up to 5 Volts DC;

Logic Threshold: 2.5 Volts DC nominal with 1 Volt hysteresis band

LED Indicators

PWR: (green) Indicates 24 Volts DC power supplied from Cresnet control

NET: (yellow) Indicates communication with Cresnet system

SETUP: (red) Used for touch-settable ID (TSID)

Buttons

SETUP: Used for touch-settable ID (TSID)



QM-RX QuickMedia® Receiver

Power Requirements

Cresnet Power Usage: 8 Watts (0.33 Amp @ 24 Volts DC)

Environmental

Temperature: 41° to 104°F (5° to 40°C) Humidity: 10% to 90% RH (non-condensing)

Enclosure

Chassis: Steel, black matte powder coat finish

Mounting: Free-standing, surface-mount, or pole-mount (adhesive feet and [4] "L" brackets included, MK-QM-RMCRX pole mount kit sold separately)

Dimensions

Height: 1.71 in (4.34 cm) Width: 6.96 in (17.68 cm) Depth: 5.83 in (14.81 cm)

Weight

1.1 lbs (0.5 kg)

* For QuickMedia wiring use CresCAT-QM, CresCAT-IM, or quality CAT5e/CAT6 cable with a delay skew of ≤15nS per 100m; the maximum aggregate cable length and delay skew between any QM transmitter (origination point) and QM receiver (endpoint) is 450 ft (137 m) and 22 nS; a maximum of two QM midpoint devices may be inserted in a given QM signal path; exceptions apply, refer to each respective product manual for full detail.

† Component video or HDTV may require a suitable VGA-to-component adapter or breakout cable, not provided.

Available Models

QM-RX: QuickMedia Receiver

Available Accessories

CBL-VGA-1.5: Crestron® Certified Computer VGA Interface Cable, 1.5 ft CBL-VGA-12: Crestron® Certified Computer VGA Interface Cable, 12 ft

CBL-VGA-25: Crestron® Certified Computer VGA Interface Cable, 25 ft

CBL-VGA-3: Crestron® Certified Computer VGA Interface Cable, 3 ft

CBL-VGA-6: Crestron® Certified Computer VGA Interface Cable, 6 ft

CNSP-XX: Custom Serial Interface Cable

CNXRMCS: TV Current Sensor

CRESCAT-QM-NP-SP500: QuickMedia® Cable, Low-skew CAT5e & Cresnet,

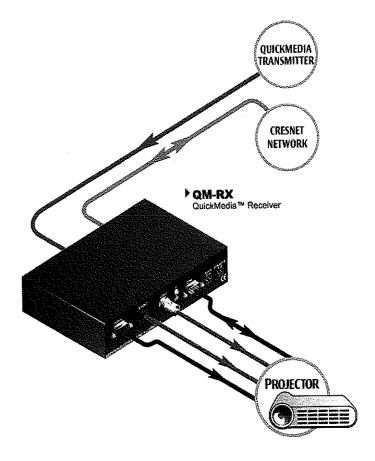
non-plenum, 500 ft spool

CRESCAT-QM-P-SP500: QuickMedia® Cable, Low-skew CAT5e & Cresnet,

plenum, 500 ft spool IRP2: IR Emitter Probe

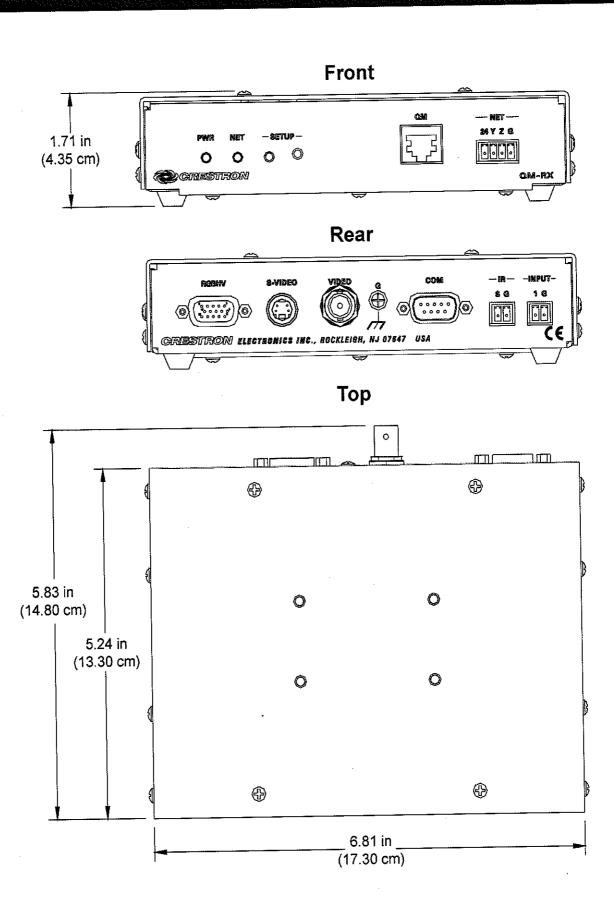
MK-QM-RMCRX: Pole Mount Bracket for QM-RX and QM-RMCRX-BA

Typical QM-RX Application



Color Key

- Control
- Video
- AudioLAN
- CAT5E
- Cresnet
- RGB
- CresCAT



CNPWS-75

75 Watt Cresnet Power Supply

The CNPWS-75 is a 75 Watt, 24 Volt regulated power supply for powering Cresnet control systems and devices. Two 4-pin network connectors are provided, wired in parallel to provide for versatile connectivity with pass-thru of the Cresnet data signal. The output is fuse protected. Up to three CNPWS-75 power supplies may be rack mounted together using the optional CNXRMAK (sold separately).

SPECIFICATIONS

Load Rating

75 Watts (3.125 Amps) @ 24 Volts DC regulated

Ripple / Noise: <300 mV

Load Protection: 4A, 250V, Time Lag fuse

Power Requirements

2.3 Amps, 100-240 Volts AC, 50/60 Hz

Connectors

NET: (2) 4-pin 5mm detachable terminal blocks;

Cresnet power output ports, paralleled;

Cresnet data 'Y' and 'Z' terminals pass-through only

Power: (1) IEC320 Socket;

Mates with removable power cord, included

LED Indicators

NET POWER: Indicates 24 Volts DC at both Cresnet power ports, extinguished

when fuse is blown

Environmental

Temperature: 41° to 104°F (5° to 40°C)
Humidity: 10% to 90% RH (non-condensing)

<u>Enclosure</u>

Chassis: Steel, black matte powder coat finish, convection-cooled, vented top

and sides

Mounting: Freestanding or 2U 19-inch rack-mountable (adhesive feet included,

CNXRMAK rack kit sold separately)

Dimensions

Height: 2.55 in (6.48 cm) Width: 4.74 in (12.05 cm) Depth: 8.07 in (20.50 cm)

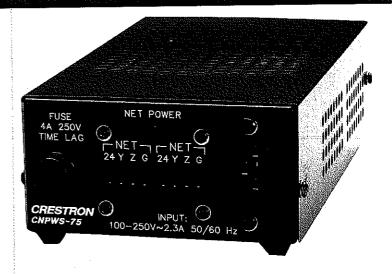
Weight

2.3 lb (1.1 kg)

INTERNATIONAL VERSION (230 VAC)

CNPWSI-75

All the features and specifications of the CNPWS-75 except the removable power cord is provided without connector



Available Models

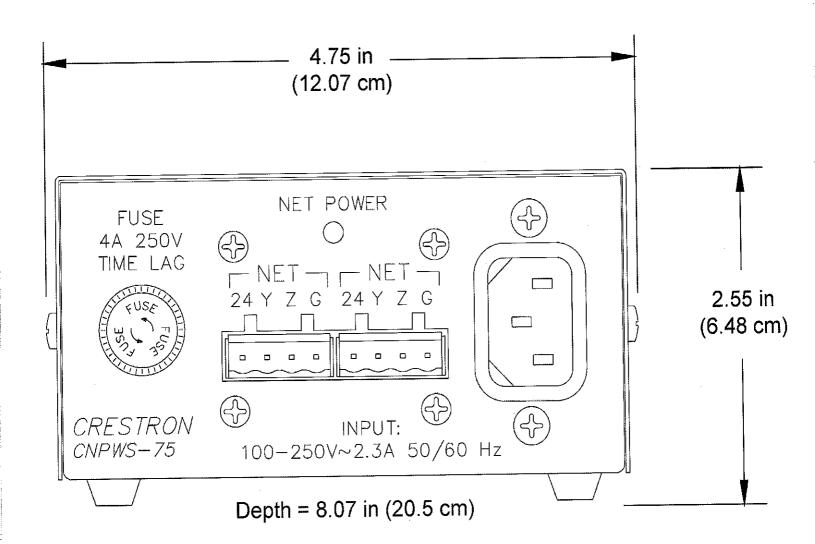
CNPWS-75: Cresnet Power Supply, 75 Watts

CNPWSI-75: Cresnet Power Supply, 75 Watts - International Version, 230V

Available Accessories

CNXRMAK: Rack Mount Kit

CNPWS-75 75 Watt Cresnet Power Supply





Tripp Lite
1111 West 35th Street
Chicago, IL 60609 USA
Telephone: +(773) 869 1234
E-mail: saleshelp@tripplite.com

Model #: SMART500RT1U

SmartPro .5kVA Line Interactive UPS, SNMPWEBCARD option, 1U Rack/Tower, USB, Serial, EPO, 120V



Highlights

- 500VA line interactive 1U rack/tower UPS
- 6 outlets with 1 switchable load bank
- Simultaneous communications via SNMPWEBCARD slot, USB and DB9 serial ports
- Included PowerAlert UPS monitoring software manages an unlimited number of network UPS systems
- Built-in voltage regulation corrects brownouts to 90V
- \$250,000 Ultimate Lifetime Insurance (USA, Puerto Rico & Canada only)

Description

Tripp Lite's SMART500RT1U intelligent, line interactive rack/tower uninterruptible power supply prevents data loss, downtime and equipment damage due to power outages, voltage fluctuations and transient surges. Requires only one rack space (1U) in a 2 or 4 post rack, with included accessories for upright tower placement. Large internal batteries offer 8 minutes half load runtime and 3 minutes at full load. Maintains regulated 120V nominal output without using battery power during brownouts as low as 90V. 500VA/300 watt power handling capability is compatible with networking, telecom and other sensitive electronic applications. Includes 6 UPS supported outlets with a single outlet load bank that can be individually controlled via software interface to reboot select equipment on demand or shed less significant loads to extend battery runtime for more critical equipment. Includes 1 surge-only outlet for peripherals not requiring battery backup. Supports simultaneous remote monitoring of UPS and site power conditions via built-in USB and DB9 monitoring ports. Includes PowerAlert UPS monitoring and unattended shutdown software with complete cabling. Built-in accessory slot supports SNMP with optional SNMPWEBCARD adapter. Emergency Power Off (EPO) interface offers option for instantaneous power-off of UPS and connected equipment in the case of fire or emergency situation. Multi-function audible alarms and set of 5 front panel LEDs offer at-a-glance notification of UPS and line power status. Network-grade AC surge suppression protects equipment from damage and performance problems resulting from transient surges and line noise. Attractive all-black color scheme. Two year warranty with \$250,00@onnected equipment insurance (USA & Canada only).

Package Includes

- SMART500RT1U UPS System
- Mounting hardware
- Cabling for USB & DB9 monitoring and EPO switching
- PowerAlert unattended shutdown and UPS/Power monitoring software
- Warranty information and instruction manual

Features

- SMART500RT1U line interactive UPS offers battery derived sine wave AC output during power outages, voltage regulation during brownouts, plus network-grade AC surge suppression
- 500VA/300 watt power handling capability compatible with networking, telecom and other sensitive electronic devices
- Supports 1U rackmount installation in 2 or 4 post rack enclosures, upright tower placement also supported mounting accessories included
- Large internal batteries offer runtimes of 17 minutes at half load (250VA/150 watts) and 5 minutes at full load (500VA/300 watts)
- Maintains regulated 120V nominal output during brownouts as low as 90V

- Includes 6 UPS-supported outlets, with one pair of individually controllable outlets that can be powered off and back on again via software interface
- PowerAlert UPS monitoring and unattended shutdown software enables configurable network broadcast messaging, pager & email notification, event logging and running user-defined script commands
- Offers simultaneous monitoring by up to 3 directly-connected devices through included USB, DB9 and SNMP* interfaces (*requires optional SNMPWEBCARD), or the monitoring of any number of additional UPS systems over IP with included PowerAlert monitoring software. Free PowerAlert enterprise management software is also available for select opportunities
- Communications ports support messaging of UPS and line power status, including on-battery, low-battery, power restored, AC line voltage, DC battery voltage and remaining battery capacity
- Supports timed inverter shutoff after unattended shutdown, activate self-test and UPS output power control for scheduled or immediate reboot of connected devices
- Supports Tripp Lite's WatchDog software application to restore unresponsive programs by systematically restarting applications, operating systems and ultimately rebooting completely locked computers by momentarily switching UPS power off and back on again (requires optional WATCHDOGSW)
- Built-in accessory slot supports SNMP with optional SNMPWEBCARD adapter
- Emergency Power Off (EPO) interface with cable
- Multi-function audible alarms and set of 5 front panel LEDs
- Network-grade AC surge suppression
- Attractive all-black color scheme
- UPS battery set ships fully assembled and ready for installation, no time consuming connection of internal batteries by user is necessary
- Two year warranty with \$250,000 connected equipment insurance (USA & Canada only)

Specifications

OUTPUT	en de la composição de la				
Output Volt Amp Capacity VA)	500				
Output Watt Capacity watts)	300				
Output power factor	0.6				
Nominal Output Voltage(s) Supported	120V				
Frequency compatibility	60 Hz				
Output voltage regulation line mode)	-15%, +13%				
Output voltage regulation (Battery mode)	+/- 5%				
Built-in UPS output receptacles	7 5-15R outlet(s)				
Surge suppression only outlets	6 UPS outlets, 1 surge-only outlets				
Built-in controllable switched load banks	One switchable single-outlet 5-15R load bank				
Basic PDU options	PDU1215 (1U / 13 5-15R outlets); PDUNV (1U / 2 C19, 12 C13 outlets); PDU1415 (0U / 14 5-15R outlets); PDUV15 (0U / 12 5-15R outlets)				
Metered PDU options	PDUMH15 (1U / 13 5-15R outlets); PDUMH15AT (1U / 8 5-15R outlets)*; PDUMV15 (0U / 16 5-15R outlets)				
Switched PDU options	PDUMH15ATNET (1U / 8 5-15R outlets)*; PDUMV15NET (0U / 16 5-15R outlets)				
External PDU redundancy options	*Auto Transfer Switch features utilizing the secondary PDU input cord are compatible with Smart Online UPS models only				
Output AC waveform (AC mode)	Sine wave				

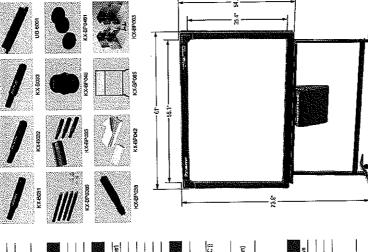
Panaboard" UB-8325 Specifications

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Panasonic

Panasonic Digital Document Company, Unit of Panasonic Cosporation of North America Two Panasonic Way, Secaucus, NJ 07084 http://www.panasonic.com/panaboard

tions/Consumables



Thransation and vergit are approximate.
 This electronic board does not function with Hi-Speed USB 2.0. Even if using a computer equipped with Hi-Speed USB 2.0, this electronic board functions with full Speed USB 2.0.
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Besign and specification are subject to change without notice.

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Interactive Panaboard"

electronic whiteboard

UB-8325

SNOTAVINESELL

SEMINARS METINGS

Panasonic ideas for life

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meeting with the same set of information and G et everyone on the same page with G Panascotic's interactive Panaboard. Whether using the Panaboard in one of its interactive modes, or simply writing directly onto one if its panels, everyone leaves the everyone will be on the same page.

-Project your presentations onto the perateoral, dight from your PC. And, for the ultimate in power and flexblifty, use the Paraboand's electronic pen to control your PC application right from the board itself. -Using the Panaboard's electronic pen or its "on-screen keyboard" you can work with your favorite Windows" applications directly from the board without being confined to your PC.

Once you're done collaborating, you can save and disseminate the results. The interactive Panaboard makes every meeting an effective

PRESENTATIONS



D on't just present to your audience... D interact with them. Simply use the electronic per in earphasts and highlight key words and subjects. Even incorporate their comments and feedback. No more one-way

boing presentations... get everyone haveved and enhance your messaging. But if doesn't have to end here... save and osfibure the collaborated presentation to all the attendees. That's taking presentations to the next level.

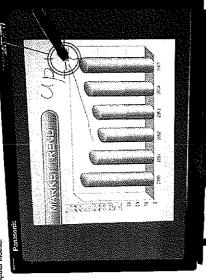
SEMINARS



Using the Panaboard's interactive software and electrorities and electrorities and additional and electrorities and electrorities and electrorities are displayed on the Panaboard, for all to see, even on your connected PC... and in real films, imagine standing in first of your board and having complete control over your PC and its applications. That's one of the features you applications. That's one of the features you applications. That's one of the features you solve the Advance Introgrive Panaboard solvers. Advance Introgrive Panaboard prosentation, loggle between applications. It's the Power of Panasoni's Panaboard. Now, presenting to a letge group of people has never been easiler.

Take Control

The electronic pan serves two functions-write and annotate on the Panaboard and control your PC applications, just like you would using a computer mouse.



You can print the notes you've made on the Built-in printer Panaboard on its integrated black and

white, plain paper printer for the ultimate in meeting room convenience.

Project Yourself

Connect to a projector and your presentations are displayed right on the Panaboard for everyone to see.

Your written comments can be saved to the connected PC and shared across the network so

Share It, Save It

everyone is on the same page.

TEAINING



Shuring information with those in front of You, as well as those on the network, is you, as well as those on the network, is the about in a training session and the interactive Panaboard let's you do just that. As you will on the board, the passingents in the authence in tond of you, as well as those on the network see the same training been completed, participants can store the materials, eachly them to correct their memory on the subject and unimately retain more from your training session.

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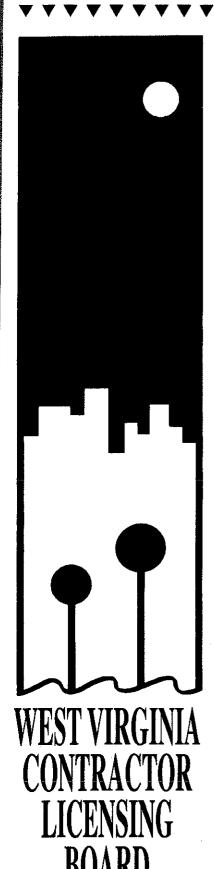
CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 05/17/11

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to

the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).									
PRODUCER			606-329-2200			CONTACT Thomas C. Phipps			
Putnam Agency		606-325-7787			DURANT				
PO Box 991 Ashland, KY 41105 Thomas C. Phipps				000 020 1101	(A/C, No. Ext): 606-320-4460 (A/C, No): 606-320-1787 E-MAIL ADDRESS; tcp@theputnamagency.com				
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								PERSONAL & ADV-INJURY \$	1,000,000
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Division of Motor Vehicles 1317 Hansford Street Charleston, WV 25311								REOF, NOTICE WILL BE D	ELIVERED IN
						ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE			
						Neawn R. Holley			



CONTRACTOR LICENSE

Authorized by the

West Virginia Contractor Licensing Board

Number:

WV042038

Classification:

LOW VOLTAGE SYSTEMS

NEWTECH SYSTEMS INC DBA NEWTECH SYSTEMS INC 1850 DALTON AVENUE ASHLAND, KY 41102

Date Issued

Expiration Date

Chair, West Virginia Contractor

Licensing Board

This license, or a copy thereof, must be posted in a conspicuous place at every construction site where work is being performed. This license number must appear in all advertisements, on all bid submissions and on all fully executed and binding contracts. This license cannot be assigned or transferred by licensee. Issued under provisions of West Virginia Code, Chapter 21, Article 11.



Agency_WV	DMV	
	DMV110150	

BID BOND

KNOW ALL MEN BY THE	ESE PRESENTS, That we, the un	dersigned, NEWIECH SYSTEMS, INC.
of P.O. Box 310	Dunbar, WV. 25	064, as Principal, and GREAT AMERICAN INSURANCE
CMPANY of 301 E. 4th Str	Cincinnati, OH 45202	orporation organized and existing under the laws of the State of
		i, OH, as Surety, are held and firmly bound unto the State
of West Virginia, as Obligee, in the		
well and truly to be made, we jointi	y and severally bind ourselves, of	ur heirs, administrators, executors, successors and assigns.
		the Principal has submitted to the Purchasing Section of the
		reto and made a part hereof, to enter into a contract in writing for
PROVIDE AND INSTALL AU	DIO, VIDEO, DATA PROJEC	TION AND COMMUNICATIONS EQUIPMENT AT THE
DMV SERVICE CENTER, 570)7 MACCORKLE AVENUE, S.	E. CHARLESTON, WV
NOW THEREFORE,		
(a) If said bid shall be re	ineted or	
(b) If said bid shall be ac	cepted and the Principal shall ent	ter into a contract in accordance with the bid or proposal attached
hereto and shall furnish any other l	bonds and insurance required by	the bid or proposal, and shall in all other respects perform the
agreement created by the accepta	nce of said bid, then this obligation	in shall be null and void, otherwise this obligation shall remain in full ility of the Surety for any and all claims hereunder shall, in no event,
exceed the penal amount of this of	plication as herein stated.	inty of the others for any and an dama necounter shan, in no overing
• • • • • • • • • • • • • • • • • • •	•	
The Surety, for the value	received, hereby stipulates and a	grees that the obligations of said Surety and its bond shall be in no
way impaired or affected by any ex	tension of the time within which t	he Obligee may accept such bid, and said Surety does hereby
waive notice of any such extension	·	
IN WITNESS WHEREOF	Principal and Surety have hereu	into set their hands and seals, and such of them as are corporations
		presents to be signed by their proper officers, this
		presents to be signed by their proper officers, the
18th day of May	, 20	
		NEWTECH SYSTEMS, INC.
Principal Corporate Seal		(Name of Principal)
		(Name of Philopal)
	•	By Teny Wadden
		(Must be President or Vice President)
		- PRESTOENT
		(Title)
Surety Corporate Seal		GREAT AMERICAN INSURANCE COMPANY
outer, corporate obai		(Name of Surety)
		BY: /homas H. Voly
•		Attorney-in-Fact
IMPORTANT - Surety executing	bonds must be licensed in Wer	THOMAS H. VOELTZ st Virginia to transact surety insurance. Raised corporate seals
must be affixed, a power of attor	ney must be attached.	

GREAT AMERICAN INSURANCE COMPANY®

Administrative Office: 580 WALNUT STREET • CINCINNATI, OHIO 45202 • 513-369-5000 • FAX 513-723-2740

The number of persons authorized by this power of attorney is not more than SIX

No. 0 18867

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the GREAT AMERICAN INSURANCE COMPANY, a corporation organized and existing under and by virtue of the laws of the State of Ohio, does hereby nominate, constitute and appoint the person or persons named below, each individually if more than one is named, its true and lawful attorney-in-fact, for it and in its name, place and stead to execute on behalf of the said Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; provided that the liability of the said Company on any such bond, undertaking or contract of suretyship executed under this authority shall not exceed the limit stated below.

Name

Address

Limit of Power

THOMAS H. VOELTZ

DANA N. CONLEY

BOTH OF ASHLAND, KY

ALL

J. MICHAEL WELLMAN

THOMAS C.PHIPPS

BOTH OF ASHLAND, KY

\$75,000,000

THOMAS H. BOTTOMS, JR.

CLARENCE C. MASSEY

BOTH OF HUNTINGTON, WV

This Power of Attorney revokes all previous powers issued on behalf of the attorney(s)-in-fact named above.

IN WITNESS WHEREOF the GREAT AMERICAN INSURANCE COMPANY has caused these presents to be signed and attested by its appropriate

officers and its corporate seal hereunto affixed this

21ST

day of MAY 2009

Attest

GREAT AMERICAN INSURANCE COMPANY



Assistant Secretary

Divisional Senior Vice President DAVID C. KITCHIN (513-412-4602)

STATE OF OHIO, COUNTY OF HAMILTON - ss:

, before me personally appeared DAVID C. KITCHIN, to me known, being 21ST 2009 On this day of duly sworn, deposes and says that he resides in Cincinnati, Ohio, that he is a Divisional Senior Vice President of the Bond Division of Great American Insurance Company, the Company described in and which executed the above instrument; that he knows the seal of the said Company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by authority of his office under the By-Laws of said Company, and that he signed his name thereto by like authority.



KAREN L. GROSHEIM NOTARY PUBLIC, STATE OF OHIO MY COMMISSION EXPIRES 02-20-11

This Power of Attorney is granted by authority of the following resolutions adopted by the Board of Directors of Great American Insurance Company by unanimous written consent dated June 9, 2008.

RESOLVED: That the Divisional President, the several Divisional Senior Vice Presidents, Divisional Vice Presidents and Divisonal Assistant Vice Presidents, or any one of them, be and hereby is authorized, from time to time, to appoint one or more Attorneys-in-Fact to execute on behalf of the Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; to prescribe their respective duties and the respective limits of their authority; and to revoke any such appointment at any time.

RESOLVED FURTHER: That the Company seal and the signature of any of the aforesaid officers and any Secretary or Assistant Secretary of the Company may be affixed by facsimile to any power of attorney or certificate of either given for the execution of any bond, undertaking, contract of suretyship, or other written obligation in the nature thereof, such signature and seal when so used being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

CERTIFICATION

I, STEPHEN C. BERAHA, Assistant Secretary of Great American Insurance Company, do hereby certify that the foregoing Power of Attorney and the Resolutions of the Board of Directors of June 9, 2008 have not been revoked and are now in full force and effect.

Signed and sealed this

18th

day of

. 2011



Assistant Secretary



State of West Virginia DRUG FREE WORKPLACE CONFORMANCE AFFIDAVIT West Virginia Code §21-1D-5

STAT	E OF _	West Virginia	1			
COUN	NTY OF	Kanawha	, то	-WIT:		
I,state	as follo	ws: ·	, after b	eing first duly sworn, depose and		
1.	I am a	in employee of $\overline{}$	ewTech	Systems, Inc. ; and, (Company Name)		
2.	I do hereby attest that NewTech Systems , Inc. (Company Name)					
			_	ee workplace policy and that such at Virginia Code §21-1D-5.		
The a	bove st	atements are swo	orn to un	der the penalty of perjury.		
			NewT	ech Systems, Inc. (Company Name)		
			By:	Michael Bryant		
			Title:	General Manager		
			Date:			
Taker	ı, subsc	ribed and sworn		me this		
Ву Со	mmissi	on expires	8/11/1	9		
tscot	Ne	OFFICIAL SEAL NOTARY PUBLIC NTE OF WEST VIRGINIA Lora L. Harless sw Tech Systems, Inc.	_	Lota L Harless (Notary Public)		
EOM		THE WIVE CODE OF	ROVISIO	TED WITH THE BID IN ORDER TO ONS. FAILURE TO INCLUDE THE		
AFFII THE I		WITH THE BID	SHALL F	RESULT IN DISQUALIFICATION OF		

Rev March 2009

STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

West Virginia Code §5A-3-10a states: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

EXCEPTION: The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

WITNESS THE FOLLOWING SIGNATURE

Vendor's Name: NewTech Systems, I	nc.	
Authorized Signature:		Date: May 16, 2011
State of West Virginia	·	
County of Kanawha, to-wit:	. 4	
Taken, subscribed, and sworn to before me this	I day of May	, 20 <u> ((</u>
My Commission expires 8 11 19	, 20 <u>1 9</u> .	0 0
AFFIX SEAL HERE	NOTARY PUBLIC _	Lora L Harles
***************************************		, ,