

## भारतीय प्रौद्योगिकी संस्थान तिरुपति

## Indian Institute of Technology Tirupati

Venkatagiri Road, Yerpedu Manal, Tirupati District, AP- 517619

Telephone: 0877-2503572, Email: purchase@iittp.ac.in

## STAGE I EVALUATION APPROVAL

GeM Bid No: GeM/2022/B/2808594 dt: 02.12.2022

Date: 26.04.2023.

Name of Supply: Supply of Audio Visual Equipment for Meeting Rooms
Name of the Indentor & Department: Dr Roshan Karan Srivatsav, Computer Centre.

The tender has been published in GeM as a GeM BoQ Bid for Supply of Audio Visual Equipment for Meeting Rooms.

We have received 09 responses from the below mentioned bidders before due date & time.

- 1. M/s. AV Designers, Bangalore
- 2. M/s. Genesis IT Innovations Pvt Ltd, Bangalore
- 3. M/s. Global Gadgets, Chennai
- 4. M/s. Gurusons Communications Pvt Ltd, New Delhi
- 5. M/s. KS Smart Solutions Pvt Ltd, Chennai
- 6. M/s. S Cube Consultancy Services, Howrah
- 7. M/s. SEC Communications Pvt Ltd, Bangalore
- 8. M/s. Sigmaavit Technology Solutions Pvt Ltd, Bangalore
- 9. M/s. SVS Technologies, Hyderabad

The Indentor Dr Roshan Karan Srivatsav, Computer Centre along with committee has evaluated the e-bids received from the above bidders and found the below mentioned **four bidders** qualified technically in the Stage-I evaluation i.e pre-qualification evaluation as per clause 11 of the ATC document of GeM bid.

- 1) M/s. Genesis IT Innovations Pvt Ltd, Bangalore
- 2) M/s. Gurusons Communications Pvt Ltd, New Delhi
- 3) M/s. S Cube Consultancy Services, Howrah
- 4) M/s. SEC Communications Pvt Ltd, Bangalore

The clause is reproduced below for your ready reference:

"Stage-I Evaluation (Pre-qualification criteria): In this stage, the received bids will be evaluated as per the eligibility criteria, terms and conditions of the tender. Only the shortlisted bidders in this stage will be informed for a demo of the AV equipment. The shortlisted bidders will have to give a demo of the following equipment at IIT Tirupati Transit Campus, Yerpedu Mandal, Venkatagiri Road, Tirupati District, Andhra Pradesh — 517619 within 10 days of the receipt of mail from IIT Tirupati. The bidders are required to bring the following equipment as per the tender document (setup for the board room and senate room):

- 1. Camera
- 2. Microphone and speaker system
- 3. DSP Processor and Mixer as per the tender document
- 4. Display 75 inch "

The evaluation sheets along with the indenter recommendations are enclosed for your kind perusal & approval please. [Enclosure-1]

The Indentor recommends that the following bidders have not qualified for the reasons mentioned below

S No	Name of the Bidder	Reasons for disqualification
1	M/s. AV Designers, Bangalore	Not meeting the tender specifications
2	M/s. Global Gadgets, Chennai	Not meeting the annual turnover criteria
3	M/s. KS Smart Solutions Pvt Ltd, Chennai	Not meeting the tender specifications & Site Visit not done as per ATC document clause No.7
4	M/s. SigmaAvit Technology Solutions Pvt Ltd, Bangalore	Not meeting the tender specifications
5	M/s. SVS Technologies, Hyderabad	Not meeting the tender specifications

## Submitted for approval for the following:

- (a) The recommendations of the evaluation may be approved please.
- (b) If approved, the recommendations of the Stage-I evaluation report may be published in our website. | L
- (c) Approval may be accorded for communicating the qualified bidders to submit the above mentioned equipment for demo within 10 days of the date of receipt of mail from the purchase section.

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(1) The recommendations of the Stage I Evaluation may kindly be Revused and approved Please.

(2) (b) & (c) may kindly be approved Plean.

d. 26/04/2023

Head, Dept. of Computer Science & Engy

Approved.

Director

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Final Recommendations	Technical Recommendations (As per the recommendations of the Committee)	Techno Commercial Recommendations	Payment Term: Within 30 days after SITC	Any bidder from a country which shares a land border with India will be eligible to bid in this Bid only if the bidder registered with the competent authority. The concerned bidder(s) are required to attach the relevant valid Registration Certificate along with the bid for consideration.	The bidder should be a Class-I/Class-II Local Supplier meeting minimum 20% local content clause in line with the Public Procurement (Preference to Make in India) Order 2017 No. P-45021/2/2017-PP (BE-II) dated 04 Jun 2020. A Self-Declaration Certificate regarding "Class-I & Class-II Supplier" is to be submitted.	The minimum average annual financial turnover of 98 lakhs during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant /  Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.	Purchase Preference: (if applicable) Micro and Small Enterprises (MSEs)/ Make in India:	Techno-commercial part	Name of the document
Not qualified	Not qualified technically	Qualified	Yes	NA	21%	Yes			M/s. AV DESIGNERS
Qualified	Qualified	Qualified	Yes	NA	21%	Yes	MSME		M/s. GENESIS IT
Not qualified	Not qualified technically	Not qualified	Yes	N A	21%	Turnover not meeting	MSME		M/s. Global gadgets
Qualified	Qualified	Qualified	Yes	N A	21%	Yes			M/s. GURUSONS COMMUNICATIONS
Not qualified	Not qualified technically	Partially qualified	Yes	N <sub>A</sub>	Class -I Supplier	OEM Turnover is there	<u></u>		M/s. KS SMART SOLUTIONS
Qualified	Qualified	Qualified	Yes	NA	21%	Yes			M/s. S Cube Consultancy
Qualified	Qualified	Qualified	Yes	N <sub>A</sub>	21%	Yes			M/s. SEC COMMUNICATI
Not qualified	Not qualified technically	Partially qualified	Yes	N <sub>A</sub>	Clarification asked through GeM	Yes			M/s. Sigmav IT Solutions
Not qualified	Not qualified technically	Qualified	Yes	NA	50%	Yes	M.		M/s. SVS Technologies

Prepared By

JA, Purchase

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			M/s.	AV DESIGNERS	INNO	GENESIS IT OVATIONS RIVATE IMITED	M/s. Glob	al gadgets	COMMU	GURUSONS INICATIONS RIVATE MITED	M/s. KS SOLUT PRIV LIMI	IONS	Cons	S Cube sultancy rvices	COMMUN	. SEC ICATIONS VATE ITED	M/s. Sigma	v IT Solutions	M/s. SVS	Technologies
s.no		Rooms/Labs Tender Number: M/2022/B/2808594	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)
1		The bidder should be a Class-I/ Class-II suppliers in line with the Public Procurenent (Preference to Make in India) order 2017 No. P-45021/2/2017-PP (DE-II) dated 04 Jun 2020. A Self-Declaration certificate regarding "Class-I/ Class-II / Non-Local suppliers" for the Item to be submitted.	21%		21%		21%		21%		Class -I Supplier		21%		21%		Clarification asked through GeM		50%	
	Purcahse-Yechno commercial qulify	Bidder Turn Over Criteria: The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as Indicated in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a 4 / Zecttificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be upleaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.	Yos		Yas		Turnover not meeting		Yes		OEM Turnover is there		Yes		Yes		Yes		Yes	
2	Site Visit		Visited		Visited		Visited		Visited		Not Visited		Visited		Visited		Visited		Visited	
3	Pro-Quilification documents		Yes		Yes		Yes		Yes		Not qualified in S.no 2		Yes		Yes			Shortfall of MAF Documetns		MAF Documetns Not Sent
4	Technical Recommendations		Deviation in Techincal Qualification	No Mail Response For Tochnical Evaluation enquiry	Yes	Some minor Deviation Found	Not qualified in 5,no 1		Yes		Not qualified in S.no (2 and 3)		Yes		Yes	8		Not qualified in S.no 3		Not qualified in S.no 3
5	Stage 1 Evaluation as per the tender norm		Disqualified	Not qualified in S.no (4)	Qualified	In Diplays, Switchers and Usb Hubs shortage of Usb and Hdm ports. (Converters they are providing). It is found that those are fow deviations from the specification in the tender document. However, it is found that these deviations are minor only. Overall, the bidder is found to be technically qualified.	Disqualified	Not qualified in S.no 1	Qualified		Disqualified	Not qualified in S.no (2 and 3)	Qualified		Qualified		Disqualified	Not qualified in S.no 3	Disqualified	Not qualified in S.no 3

G.V.R.M.S. Futgatyon

Dr. Roshan Karan Srivastav

M. W: Vr Vloag Prond

Dr. G Ramakrishna

Mr. GRamash (Invited Member)

24/4/2023

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	Technical Compliance statement	M/s. AV	DESIGNERS	M/s. GEI	NESIS IT		M/s.	Global gadgets	M/	s. GURUSONS	M/s. K	SMART	M/s.	S Cube	M/:	s. SEC	M/s. SIG			. SVS
Name	e of the Item : AV Equipment for Meeting Room:GEM/2022/B/2808594	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Not complied (Yes / No)	Remarks (in case not complied)	Genesis Comments	Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Complied/ Not complied (Yes / No)	Remarks (in case not complied)	Not complied (Yes / No)	(in case not	Not complied (Yes / No)	Remark (in cas not complie
	DISPLAYS		0.1	24.0															7. 10	
	Type 1 : Supply Installation Testing Commissioning of 85 inches Display																	-		
	85" 4K UHD(3840 X 2160) IPS/VA LED display, 500 Cd/m2	Yes		Yes			Yes		Yes				Yes		Yes					
1.0	HDMI 2.0 X 3 IN, DP1.2 IN X 1, USB X 2, RJ45 X 1, RS232 X 1, Audio IN X1, Audio Out x 1, Digital Audio Out x 1.	Yes		Yes	Usb one only?	This Model Has 2 USB 2.0 Ports	Yes		Yes				Yes		Yes					
	20W in built speaker, 24/7 operation, Wireless Presentation support for Laptop (Built in Wi-Fi), Bluetooth, Auto wake up on Input, Auto	Yes	Presentation support	Yes			Yes		Yes				Yes		Yes					
	switch on failover  HDMI CEC, No signal Power Off, SNMP Support, RS232 and LAN	Yes	for Laptop ?  SNMP ?, Usb auto	Yes			Yes		Yes		Site Visi	t Not Done	Yes		Yes		Shortfall of M	AF Documetns	MAF Docum	etns Not Sen
DSPLY85"	Control, USB Auto play function,  Multi screen support up to 10 x 10, HTML 5.0 based browser	NA.	play ? Check ?	Yes	15x15	Tile mode setting is 15x15 higher than	Yes		Yes				Yes		Yes					
	Optional Windows and Android OPS support, USB Locking system for	<u> </u>		Yes		requested											+			
	security. Built in Signage and Basic content Management Solution, with wall mount kit	Yes	USB Locking system for security ?				Yes		Yes				Yes		Yes		_	- 3**		
	The proposed displays should be capable of showing digital signage contents like videos, images, text, pdf, that are pushed from a central sever within the IIT network through a web based CMS application. The said functionality shall be achieved using built in media player or	Yes		Yes			Yes		Yes				Yes		Yes					
	with an external signage media player.	Sony FW-85BZ40H	H+ DP to HDMI adaptor	LG-86	UH53-H			LH-86QM5VS	G = 6 * So =	LH-86QM5VS	1		LH-8	6QM5VS	LH-	86QM5VS				
	Type 2 : Supply Installation Testing Commissioning of 75	E	THE COLUMN TWO IS NOT BE	1			Lid Coloration	-												
	inches Display 75" 4K UHD(3840 X 2160) IPS/VA LED display, 500 Cd/m2	Yes		Yes		This Model Has 2 USB 2.0 Ports	Yes		Yes				Yes		Yes					
	HDMI 2.0 X 3 IN, DP1.2 IN X 1, USB X 2, RJ45 X 1, RS232 X 1, Audio IN X1, Audio Out x 1, Digital Audio Out x  20W in built speaker, 24/7 operation, Wireless Presentation support	Yes	Wireless	Yes	Usb one only ?	I nis Model Has 2 USB 2.0 Ports	Yes		Yes				Yes		Yes					
	for Laptop (Built in Wi-Fi), Bluetooth, Auto wake up on Input, Auto switch on failover	Yes	Presentation support for Laptop ?				Yes		Yes				Yes		Yes					
	HDMI CEC, No signal Power Off, SNMP Support, RS232 and LAN Control, USB Auto play function,	Yes	SNMP ?, Usb auto play ?	Yes			Yes		Yes				Yes		Yes					
DSPLY75"	Multi screen support up to 10 x 10, HTML 5.0 based browser	NA	Check ?	Yes	15x15	Tile mode setting is 15x15 higher than requested	Yes		Yes				Yes		Yes		-			
	Optional Windows and Android OPS support, USB Locking system for security. Built in Signage and Basic content Management Solution, with wall mount kit where-ever applicable	Yes	usb locking ?	Yes			Yes		Yes				Yes	<	Yes					
	The proposed displays should be capable of showing digital signage contents like videos, images, text, pdf, that are pushed from a central sever within the IIT network through a web based CMS application.  The said functionality shall be achieved using built in media player or with an external signage media player.	Yes	-	Yes			Yes		Yes				Yes		Yes					
DE A ELECTRONOMINA CO			BZ40H+ DP to HDMI daptor	LG-75	SUH53-H		Market N	LH-75QM5VS		LH-75QM5VS			LH-	75QM5VS	LH-	-75QM5VS				
	Type 3 : Supply Installation Testing Commissioning of 65 inches Interactive Display			Yes	450	nits value of display is higher than requested								,						+
	65" 4K UHD(3840 X 2160) IPS/VA LED display,400 Cd/m2  HDMI 2.0 X 3 IN, DP1.2 / VGA IN X 1, USB X 2, HDMI Out x 1, RJ45 X	Yes		Yes	430	nis value of display is higher than requested	Yes		Yes		-		Yes		Yes					+
	1, RS232 X 1, Audio IN X1, Audio Out x 1, IR x 1  Built in Multi Touch interactive display, 20W in built speaker, 16/7 or	Tes		Yes			Yes		Yes		<u> </u>	1	_		Yes		-			-
	more operation	NA	Panasonic meeting	Yes			Yes		Yes				Yes		Tes					
NTRDSPLY6 5"	Auto play, Windows/Android, Mac OS compatible, Windows/Android OPS compatible,	NA	our requirements but Sony not				Yes		Yes				Yes		Yes					
	Optional Windows and Android OPS support, USB Locking system for security, with wall mount kit	usb locking ?	matching, Panasonic MAF Not submitted	Yes			Yes		Yes	×			Yes		Yes					
	The proposed displays should be capable of showing digital signage contents like videos, images, text, pdf, that are pushed from a central sever within the IIT network through a web based CMS application. The said functionality shall be achieved using built in media player or	Yes		Yes			Yes		Yes				Yes		Yes					
	with an external signage media player.	Panasonic LIH-65	5AT4VS/ or Sony VPL-	LG-6	5TR3DJ		THE SERVE	LH-65TD3VS		L)H-65AT4VS		-	LJH	-65AT4VS	LH	I-65TD3VS				
200 20000 0000		FW65BZ40H+ I	DP to HDMI adaptor		774412						-	-	F 3 C 62		- San - Cont. (**)			-		
	Type 4 : Supply Installation Testing Commissioning of 55 inches Display			Yes														-	-	+
	55" 4K UHD(3840 X 2160) IPS/VA LED display,500 Cd/m2	Yes		res	700 nits	This Model is Higher Model than the specifications mentioned in RFP. Brightness of this Model is 500 NITS whereas 500 NITS asked in RFP.	Yes		Yes				Yes	-	Yes					
	HDMI 2.0 X 3 IN, DP1.2 IN X 1, USB X 2, RJ45 X 1, RS232 X 1, Audio IN X1, Audio Out x 1, Digital Audio Out x 1.	Yes		Yes	HDMI =2 only + one DP,Usb one only ?+ Usb C one have	WE WILL PROVIDE DP TO HDMI ADAPTER AND WE HAVE TWO USB PORTS IN THEM ONE IS TYPE C, BOTH CAN BE USED FOR DATA TRANSFER, WE WILL PROVIDE ADAPTER FOR TYPE C	Yes		Yes				Yes		Yes		4			
	20W in built speaker, 24/7 operation, Wireless Presentation support for Laptop (Built in Wi-Fi), Bluetooth, Auto wake up on Input, Auto	Yes	Wireless Presentation support	Yes			yes		yes				yes		yes					
DSPLY55"	switch on failover  HDMI CEC, No signal Power Off, SNMP Support, RS232 and LAN		for Laptop ?  SNMP ?, Usb auto	Yes			Yes		Yes		1		Yes		Yes			-		
	Control, USB Auto play function	Yes	play ?	Yes			-													
	Multi screen support up to 10 x 10, HTML 5.0 based browser	NA	Check ?	V			Yes		Yes		1	1	Yes		Yes			-		_
CONTRACTOR OF TAXABLE	Optional Windows and Android OPS support, USB Locking system for security. Built in Signage and Basic content Management Solution,	Yes	usb locking ?	1.00			Yes		Yes	I	1		Yes		Yes	1		1	1	1

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	contents like videos, images, tex sever within the IIT network the The said functionality shall be ac	e capable of showing digital signage it, pdf, that are pushed from a central rough a web based CMS application. chieved using built in media player or signage media player.	Yes		Yes			Yes		Yes		Yes		Yes					
	The second secon	organization program	Sony VPL-FW55E	BZ40H+ DP to HDMI laptor	LG-5	5UH73-H			LH-55QM6VS		LH-55QM6VS	LH-	55QM6VS	LH-	55QM6VS				
		n Testing Commissioning of 43						Yes		Yes		Yes		Yes					
	43" 4K UHD(3840 X 2160) reso	olution IPS/VA LED display with 500 brightness			Yes	700 nits	This Model is Higher Model than the specifications mentioned in RFP. Brightness of this Model is 500 NITS whereas 500 NITS asked in RFP.	Yes		Yes		Yes		Yes					
	Built in Quad core processor	r, 2 GB DDR3 RAM, 8 GB Memory			Yes	Built in Quad core processor, 2 GB DDR3 RAM ?	Provided OEM Declaration Letter for the same	Yes		Yes		Yes		Yes					
5 DSPLY43"	with HDR 10, Dolby Audio, Wire (Built in Wi-Fi) and Chrome ca	less Presentation support for Laptop ast, HDMI CEC, with wall mount kit		NO Data sheet	Yes	HDR 10, Dolby audio ?	Provided OEM Declaration Letter for the same	Yes		Yes		Yes		Yes					
	Built-in Bluetooth Ver.4, 20W bu	nilt, HDMI 2.0 X 2, USB X 2, RJ45X 1.			Yes	Usb one only ?+ Usb C one have	WE HAVE TWO USB PORTS IN THEM ONE IS TYPE C, BOTH CAN BE USED FOR DATA TRANSFER. WE WILL PROVIDE ADAPTER FOR TYPE C	Yes		Yes		Yes		Yes					
	contents like videos, images, tex sever within the IIT network the The said functionality shall be ac	e capable of showing digital signage t, pdf, that are pushed from a central rough a web based CMS application. thieved using built in media player or signage media player.			Yes		Also has Tile mode setting of 15x15	Yes		Yes		Yes		Yes					
	Type 6 : Supply Installation	Testing Commissioning of 32"	Sony VPL	-FW43BZ35J	LG-4	30Н77-Н			LH-43QM6VS		LH-43QM6VS	LH-	-43QM6VS	LH·	43QM6VS				
	32" HD Ready resolution And	isplay droid LED display with 350 Cd/m2			Yes	400 Nits	nits value of display is higher than requested	Yes		Yes		Yes		Yes			-		
		1.5 GB DDR3 RAM, 8 GB Memory			Yes	1.5GB DDR 3 Ram, Quad	Provided OEM Declaration Letter for the same	Yes		Yes		Yes		Yes					
6 DSPLY32"	2K Dolby Audio, HDMI CEC, Bu	uilt-in Bluetooth Ver.4, 20W built in		NO Data sheet	Yes	Core Processor						Yes							
	HDMI 1.4 x 2, AV X 1, USB 2.0	th wall mount kit X 2, RJ45 X 1(Network connectivity			Yes	2K Dolby ? One Usb only	Provided OEM Declaration Letter for the same  WILL BE PROVIDED WITH USB ADAPTER	Yes		Yes		Yes		Yes					
	only), Head	iphone Out x 1.	Sony KE	D-32W830K		2SM5J-B	WILL BE PROVIDED WITH USB ADAPTER	res	LH-32AN6ND	res	LH-32AN6ND		-32AN6ND		-32AN6ND				
CONTRACTOR LEGGE	MOUNTING HARD	WARE																	
7 DSPLY-WMK	Mount Kit 1	Testing Commissioning of Wall for 85" Display	eisconnect	EC-SMK-7586															
	Supply Installation Testing Co Heavy duty Swivel Mou	mmissioning of Swivel Mount KIT : unt kit for Display or Better		No Data sheet	Yes NT-	7DA02B		Yes	LGWM-5598SW	Yes	LGWM-5598SW	Yes	VM-5598SW	Yes	/M-5598SW				
	Type 3 : Supply Installation	Testing Commissioning of Swivel	eisconnect	EC-SMK-6575	1				LGWN-33983W		- Commonwealth Com								
8 DSPLY-SMK	Mount Kit f Supply Installation Testing Co	for 75" Display mmissioning of Swivel Mount KIT :	eisconnect	t EC-SMK-6575 No Data sheet	Yes			Yes	2011-3333311	Yes		Yes		Yes					
8 DSPLY-SMK	Mount Kit f Supply Installation Testing Co Heavy duty Swivel Mou	for 75" Display mmissioning of Swivel Mount KIT : unt kit for Display or Better	eisconnect		Yes	7DA12C		Yes	LGWM-5586SW	Yes	LGWM-5586SW	Yes	VM-5586SW	Yes	/M-55865W				
8 DSPLY-SMK	Mount Kit I Supply Installation Testing Co Heavy duty Swivel Mou SWITCHERS Type 1 : Supply Installation 1	Tor 75" Display mmissioning of Swivel Mount KIT : unt kit for Display or Better	eisconnect		Yes			Yes			LGWH-5586SW	Yes		Yes LGV					
8 DSPLY-SMK	Mount Kit 1 Supply Installation Testing Co Heavy duty Swivel Moi  SWITCHERS  Type 1 : Supply Installation 1 HDR HDMI 2.0 HDCP 2.2 De-er	ror 75" Display mmissioning of Swivel Mount KIT : unt kit for Display or Better  resting Commissioning of 4x4 4K Watrix Switcher with Audio	Aten VM04		Yes NT-			K			1	Yes LGW KRAMI		Yes LGV KRAMI	/H-55865W				
8 DSPLY-SMK	Mount Kit f Supply Installation Testing Co Heavy duty Swivel Mot  SWITCHERS  Type 1 : Supply Installation 1 HDR HDM1 2.0 HDCP 2.2	Tor 75" Display mmissioning of Swivel Mount KIT : unt kit for Display or Better  Festing Commissioning of 4x4 4K Matrix Switcher with Audio mbedding  4 HDMI: On female HDMI connectors		No Data sheet	Yes NT-	77DA12C			LGWM-5586SW		LGWH-5586SW	Yes LGW	VM-5586SW	Yes LGV					
8 DSPLY-SMK	Mount Kit 1 Supply Installation Testing Co Heavy duty Swivel Moi  SWITCHERS  Type 1 : Supply Installation 1 HDR HDMI 2.0 HDCP 2.2 De-er	ror 75" Display mmissioning of Swivel Mount KIT : unt kit for Display or Better  resting Commissioning of 4x4 4K Watrix Switcher with Audio	Aten VM04	No Data sheet	Yes NT-	77DA12C		K	LGWM-5586SW		LGWH-5586SW	Yes LGW KRAMI	VM-5586SW	Yes LGV KRAMI					
8 DSPLY-SMK	Switchers  Type 1 : Supply Installation Testing Control Meavy duty Swivel Moutanness Switchers  Type 1 : Supply Installation 1 HDR HDMI 2.0 HDCP 2.2 De-er	Tor 75" Display  mmissioning of Swivel Mount KIT: unt kit for Display or Better  lesting Commissioning of 4x4 4K  Matrix Switcher with Audio mbedding  4 HDMI: On female HDMI connectors  4 HDMI: On female HDMI connectors  4 S/PDIF: On female RCA connectors  4 Balanced Stereo Audio: On	Aten VMD4 Yes	No Data sheet	Yes NT-Liberty AV -	77DA12C	Mini usb connector available	K) Yes	LGWM-5586SW	Yes	LGWH-5586SW	Yes LGV KRAMI Yes	VM-5586SW	Yes LGV KRAMI					
8 DSPLY-SMK	Mount Kit   Supply Installation Testing Co Heavy duty Swivel Mou  SWITCHERS  Type 1 : Supply Installation 1 HDR HDMI 2.0 HDCP 2.2 De-er INPUTS  OUTPUTS	Tor 75" Display mmissioning of Swivel Mount KIT: unt kit for Display or Better  lesting Commissioning of 4x4 4K Matrix Switcher with Audio mbedding  4 HDMI: On female HDMI connectors  4 HDMI: On female HDMI connectors  4 HDMI: On female HDMI onnectors  4 S/PDIF: On female RCA connectors  1 SPDIF: On female RCA connectors  1 USB: On a Mini female connector  1 ISB: On a Mini female connector  1 ISB: On a Simm mini jack 1 Ethernet: On an RJ-45 female	Aten VM04 Yes	No Data sheet	Yes NT- Liberty AV - Yes	DI-HDM44A-H2  Mini USB female connector not	Mini usb connector available	Yes Yes	LGWM-5586SW	Yes Yes	LGWH-5586SW	Yes LGW KRAMI Yes	VM-5586SW	Yes LGV KRAMI Yes					
8 DSPLY-SMK	Switchers  Type 1 : Supply Installation Testing Control Heavy duty Swivel Moute Moute Moute Moute Heavy duty Swivel Moute Heavy duty Switchers  Type 1 : Supply Installation Tender HDR HDMI 2.0 HDCP 2.2 De-error INPUTS  OUTPUTS  PORTS	in 75" Display mmissioning of Swivel Mount KIT: unt kit for Display or Better  resting Commissioning of 4x4 4K Matrix Switcher with Audio mbedding  4 HDMI: On female HDMI connectors  4 S/PDIF: On female RCA connectors  1 USB: On a Mini female connector  1 USB: On a Mini female connector  1 USB: On a Mini female connector  1 RS-232: On a 9-pin D-sub connector  1 RIN: On a 3.5mm mini jack 1 Ethernet: On an RJ-45 female connector  Max. Resolution: 4K@60Hz 4:4:4 Max. Data Rate: 18Gbps (6Gbps per graphic channel) Compliance: Supports HDMI 2.0/1.4, HDCP 2.2/1.4  Front Panel: IN and OUT selection buttons Front Panel: OFF, ALL, STO, RCL EFIDI, LOCK buttons	Aten VMO4 Yes No Yes	No Data sheet  404HB+VC882  Only 4 HDMI available	Yes NT- Liberty AV - Yes Yes	7DA12C  DL-HDM44A-H2  Mini USB female connector not available  All options not	Mini usb connector available  Available buttons are , IN , OUT, OFF,STO,RCL, Edid dip switch type sufficient for funcionality	Yes Yes Yes	LGWM-5586SW	Yes Yes	LGWH-5586SW	Yes  LGW  KRAMI  Yes  Yes	VM-5586SW	Yes  LGV  KRAMI  Yes  Yes					
8 DSPLY-SMK	Mount Kit I Supply Installation Testing Co Heavy duty Swivel Mou  SWITCHERS  Type 1 : Supply Installation 1 HDR HDMI 2.0 HDCP 2.2 De-er  INPUTS  OUTPUTS  PORTS  VIDEO	Tor 75" Display mmissioning of Swivel Mount KIT: unt kit for Display or Better  resting Commissioning of 4x4 4K Matrix Switcher with Audio mbedding  4 HDMI: On female HDMI connectors  1 USB: On a Mini female connector  1 USB: On a Mini female connector  1 USB: On a Mini female connector  1 IR IN: On a 3.5mm mini jack 1 Ethernet: On an RJ-45 female connector  Max. Resolution: 4K@60Hz 4:4:4 Max. Data Rate: 18Gbps (6Gbps per graphic channel) Compliance: Supports HDMI 2.0/1.4, HDCP 2.2/1.4,  Front Panel: IN and OUT selection buttons Front Panel: OFF, ALL, STO, RCL EDID, LOCK buttons Operating Temperature: 0° to +40°C (32° to 104°F) Storage Temperature: -40° to +70°C (-40° to 158°F) Humidity: 10% to 99%, RHL	Aten VMO4 Yes No Yes	No Data sheet  404HB+VC882  Only 4 HDMI available	Yes  NT-  Liberty AV -  Yes  Yes  Yes	7DA12C  DL-HDM44A-H2  Mini USB female connector not available  All options not	Available buttons are , IN , OUT, OFF,STO,RCL, Edid dip switch type sufficient for funcionality sufficient temperature can be maintained in	Yes Yes Yes	LGWM-5586SW	Yes Yes	LGWH-5586SW	Yes  LGW  KRAMI  Yes  Yes	VM-5586SW	Yes  LGV  KRAMI  Yes  Yes  Yes					
8 DSPLY-SMK	SWITCHERS  Type 1 : Supply Installation Testing Control Meavy duty Swivel Moute Mout	Tor 75" Display mmissioning of Swivel Mount KIT: unt kit for Display or Better  Testing Commissioning of 4x4 4K Matrix Switcher with Audio mbedding  4 HDMI: On female HDMI connectors  4 HDMI: On female RCA connectors  1 USB: On a Mini female connector  1 USB: On a Mini female connector  1 USB: On a Mini female connector  1 RS-232: On a 9-pin D-sub connector  1 RN: On a 3.5mm mini jack 1 Ethernet: On an RJ-45 female connector  Max. Resolution: 4K@60Hz 4:4:4 Max. Data Rate: 18Gbps (6Gbps per graphic channel) Compliance: Supports HDMI 2.0/1.4, HDCP 2.2/1.4,  Front Panel: IN and OUT selection buttons Front Panel: OFF, ALL, STO, RCL EDID. (OCK buttons Operating Temperature: 0° 0 t+40°C (32° to 104°F) Storage Temperature: -40° to +70°C (-40° to 158°F)	Aten VM04 Yes No Yes  Yes	No Data sheet  404HB+VC882  Only 4 HDMI available	Yes NT- Liberty AV - Yes Yes Yes	7DA12C  DL-HDM44A-H2  Mini USB female connector not available  All options not available  Storage Temperature:	Available buttons are , IN , OUT, OFF,STO,RCL, Edid dip switch type sufficient for funcionality sufficient temperature can be maintained in	Yes Yes Yes Yes	LGWM-5586SW	Yes Yes Yes Yes	LGWH-5586SW	Yes  LGW  KRAMI  Yes  Yes  Yes	VM-5586SW	Yes  LGV  KRAMI  Yes  Yes  Yes					
1 VS-44H2A	Mount Kit   Supply Installation Testing College   Heavy duty Swivel Mount   SWITCHERS   Type 1 : Supply Installation 1 HDR HDMI 2.0 HDCP 2.2 HDCP 2.2 HDCP 2.2 HDCP 2.5 HDCP 2	Tor 75" Display mmissioning of Swivel Mount KIT: unt kit for Display or Better  Testing Commissioning of 4x4 4K Matrix Switcher with Audio mbedding  4 HDMI: On female HDMI connectors  1 USB: On a Mini female connector  1 RS-232: On a 9-pin D-sub connector  1 RN: On a 3.5mm mini jack 1 Ethernet: On an RJ-45 female connector  Max. Resolution: 4K@60Hz 4:4:4 Max. Data Rate: 18Gbps (GGbps per graphic channel) Compliance: Supports HDMI 2.0/1.4, HDCP 2.2/1.4,  Front Panel: IN and OUT selection buttons Front Panel: OFF, ALL, STO, RCL EDID, LOCK buttons Operating Temperature: -0° to +40°C (32° to 104° T) Storage Temperature: -40° to +70°C (-40° to 158°F) Humidity: 10% to 90%, RHL non-condensing Source: 100-240V AC, 50/60Hz	Aten VM04 Yes No Yes  Data Not provided Yes  Data Not provided	No Data sheet  404HB+VC882  Only 4 HDMI available  Temperature: -20' to +60°C only	Yes  NT-  Liberty AV -  Yes  Yes  Yes  Yes	7DA12C  DL-HDM44A-H2  Mini USB female connector not available  All options not available  Storage Temperature:	Available buttons are , IN , OUT, OFF,STO,RCL, Edid dip switch type sufficient for funcionality sufficient temperature can be maintained in	Yes Yes Yes Yes	LGWM-5586SW	Yes Yes Yes Yes	LGWH-5586SW	Yes  LGW  KRAMI  Yes  Yes  Yes	VM-5586SW	Yes  LGV  KRAMI  Yes  Yes  Yes  Yes  Yes					
	Mount Kit   Supply Installation Testing College   Heavy duty Swivel Mount   SWITCHERS   Type 1 : Supply Installation 1 HDR HDMI 2.0 HDCP 2.2 HDCP 2.2 HDCP 2.7 HDCP 2	Tor 75" Display mmissioning of Swivel Mount KIT: unt kit for Display or Better  Testing Commissioning of 4x4 4K Matrix Switcher with Audio mbedding  4 HDMI: On female HDMI connectors  4 HDMI: On female HDMI connectors  4 HDMI: On female RCA connectors  4 SPDIF: On female RCA connectors  1 USB: On a Mini female connector  1 USB: On female Connector  1 USB: On female Connector  1 USB: On female Conne	Aten VM04 Yes No Yes  Data Not provided Yes  Data Not provided	No Data sheet  404HB+VC882  Only 4 HDMI available  Temperature: -20' to +60°C only	Yes  NT-  Liberty AV -  Yes  Yes  Yes  Yes  Yes	7DA12C  DL-HDM44A-H2  Mini USB female connector not available  All options not available  Storage Temperature:	Available buttons are , IN , OUT, OFF,STO,RCL, Edid dip switch type sufficient for funcionality suffeciant temperature can be maintained in the cooling rack	Yes Yes Yes Yes Yes Yes	LGWM-5586SW	Yes Yes Yes Yes Yes	LGWH-5586SW	Yes  LGW  KRAMI  Yes  Yes  Yes  Yes  Yes	VM-5586SW	Yes  LGV  KRAMI  Yes  Yes  Yes  Yes  Yes  Yes					

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	ACCESSORIES	Included: Power cord, rack ears, remote control transmitter with batteries	Data Not provided		Yes	remote control transmitter with batteries is not there	It comes with remote control and batteries	Yes		Yes			Yes	Yes					
		Analog and Digital Audio Extraction (De-embedding)	Yes	Feature Comes with additional item	Yes			Yes		Yes			Yes	Yes	12				
			Data Not provided		NA			Yes		Yes			Yes	Yes					
		Equalization & reclocking Technology — Rebuilds the digital signal to travel longer distances.	Data Not provided	3	NA NA			Yes		Yes			Yes	Yes					
		Flexible Content Protection — Selectable HDCP per input,	Data Not provided		Yes			Yes		Yes			Yes	Yes					
	OTHER SPECIFICATIONS	Quick Access to Common Configurations — Save up to of mininum six preset configurations,	Data Not provided		Data Not provided		Quick Access to Common Configurations -It has 3 preset configurations	Yes		Yes			Yes	Yes					
		Cost-Effective Maintenance — IR and Input Selection indicators facilitate easy local maintenance and troubleshooting	Data Not provided		Yes			Yes		Yes			Yes	Yes					
		EDID Management — Individual EDID management per input. Captures and stores the EDID from a display device.	Yes		Yes			Yes		Yes			Yes	Yes			,		
		esting Commissioning of 4x1 4K	Aten VS4	81C+VC882	Liberty AV	- DL-S41-H2		KRA	MER - VS - 411XS	K	AMER - VS - 411XS		KRAMER - VS - 4	411XS	KRAMER - VS - 411XS				
	HDR HDMI Intelli INPUTS	gent Auto Switcher 4 HDMI: On a female HDMI	Yes		Yes			Yes		Yes			Yes	Yes					
	OUTPUTS	connector 1 HDMI: On a female HDMI	Yes		Yes			Yes		Yes			Yes	Yes					
	3017013	connector  1 Balanced Stereo Audio: On 5-pin terminal block connector	-	Data Not provided	Yes	PCM 2.0, 3.5mm TRS		Yes		Yes			Yes	Yes					
	PORTS	RS-232: On a 3-pin terminal block	Yes		Yes	audio jack		Yes		Yes			Yes	Yes		-			
	PORTS	connector  Remote Contact Closure: On an	Data Not provided		Yes	4 pin		Yes		Yes		-	Yes	Yes					
		8-pin terminal block connector					Giving a serial port to RJ45 connector along with supply						Yes	Ye					<del> </del>
		Ethernet: On an RJ-45 connector  Max Data Rate: 17.82GBPS	No	Data Not provided	No		with supply	Yes		Yes						-			
	VIDEO	(5.94Gbps per graphic channel)	Yes		Yes			Yes		Yes			Yes	Ye					
		Max Resolution: 4K@60 (4:4:4)	Yes		Yes			Yes		Yes			Yes	Ye					<del> </del>
		Compliance: HDR10 as specified in HDMI 2.0, HDCP 2.2	Yes		Yes			Yes		Yes			Yes	Ye					
	POWER	Source: 5V DC, 4A Consumption: 810mA	Yes No	5W	Yes No	5W		Yes Yes		Yes Yes			Yes Yes	Ye Ye				_	
2 <b>VS-411XS</b>	USER INTERFACE	Controls: Inputs selection, volume, and mute buttons, DIP-switches for configuring switching policy and audio de-embedding source, embedded web pages via IP			Yes	Facility not Fully there	It is controlleed through touch panel through webpages via IP	Yes		Yes			Yes	Ye					
	Remote Device Control	Control meeting and presentation devices connected	Data Not provided		Yes			Yes		Yes			Yes	Ye					
	Multi-channel Audio Switching	Up to 32 channels of digital stereo uncompressed signals for supporting studio-grade surround sound,	Data Not provided		Data Not provided		it supports multi channel stereo signal	Yes		Yes			Yes	Ye					
	Display Operation	Automatically turning ON/OFF a CEC-enabled display when the presentation source is plugged in / unplugged with user-defined shut-down delay.	Data Not provided	Only automatically turning ON/OFF is available	Data Not provided		Supports CEC pass through control of source / display	Yes		Yes			Yes	Ye					
	ENCLOSURE	Type: Aluminum	No	Metal	Yes	F195		Yes		Yes			Yes	Ye					
		Cooling: Convection ventilation  Operating Temperature: 0° to	No	Data Not provided	No	Facility not there	Conventinal ventilation is avilable in rack	Yes		Yes			Yes	Ye					
	ENVIRONMENTAL CONDITIONS	+40°C (32° to 104°F) Storage Temperature: -40° to	Yes		Yes			Yes		Yes		++	Yes	Ye					
		+70°C (-40° to 158°F) Humidity: 10% to 90%, RHL	Yes Yes		Yes			Yes		Yes		+	Yes	Ye				_	<del> </del>
	REGULATORY COMPLIANCE (STANDARDS COMPLIANCE)	non–condensing  Health, Safety, Environmental:  ROHs, WEEE, CE preffered or applicable accrodingly to country of	N-	Data Not provided	Yes			Yes		Yes			Yes	Ye					
2 2 3 3 3 4		origin																	
	USB Hub		9																
	Type 1 : Supply Installation Te	sting Commissioning of USB Hub	Aten U	S3344AT-I	Liberty AV -	DL-SCU33-SW	Quoted - Liberty AV - DL-4USB-PHUB is EOL,Quoted a higher model of Liberty AV - DL- SCU33-SW without any change on commercials.	cı	er one Versa Hub		cler one Versa Hub		Cler one Vers	a Hub	Cler one Versa Hub				
	Ports:	1x USB 3.0 (Type-B) for laptop (Requires Display Link driver on laptop) 2x USB 3.0 (Type-A) for USB camera & USB Speakerphone 4x USB 2.0 ports 1x HDMI out 1x DVI out	No	HDMI out & DVI out not available	Yes	HDMI and DVI , USB 2.0 ?	It has 3 Inputs with (USB-C & HDMI & USB-B) than requested is only 2 Periphal of 4 is aviilable as requestedHDMI to DVI connector is provided during the supply.	Yes		Yes			Yes	Ye					
3 USBHUB-1	SYSTEM REQUIREMENTS	2.0 GHz Core2 Duo or better, 1GB RAM Full-Screen Video Playback: Core 13 15 or 17 2+GHz, 4GB RAM Operating System: Windows Vista/7/8/8.1/10, Mac OS 10.2 or above Max Resolution: 2048 x 1152	No	Data Not provided	Yes		4K is also avilable and compatable with all OS.	Yes		Yes			Yes	Ye					

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	ENVIRONMENTAL	Operating Temperature: 32° F/0° C to 104° F/40° C ambient temperature Storage Temperature: 14° F/-10° C to 158° F/70° C ambient temperature Relative Humidity: 10%~90%, non-condension	Yes		NA NA			Yes		Yes			Yes		Yes			
ST	POWER	Power Supply: 12V 2A Power Plug: UK/EU/US/China/Australia (option) Power Consumption: 1W Rated Voltage/Frequency/Current: 100-240 V AC. 50/60Hz, 0.1A max, CLASS II	No	Data Not provided	Yes			Yes		Yes			Yes		Yes			
	Type 1 : Supply Installation 1	Testing Commissioning of USB Hub	Ate	en US234	Liberty AV -	- DL-SCU33-SW	Quoted -Liberty AV - DL-7US8-PHUB is EOL-Quoted a higher model of Liberty AV - DL- SCU33-SW without any change on commercials.		Aten US234		Aten US234		At	en US234	A	en US234		
	Ports:	2 x USB Type B Female (Requires Display Link driver on laptop) 3 x USB Type A Female for USB camera & USB Speakerphone 1 x USB micro B Female (Power (Optional)	Yes		Partial	1 USB Type-B & 1 x USB micro B Female (Power (Optional) is not available	Without display link driver also it works.	Yes		Yes			Yes		Yes			
USBHUB-2	TOGGLE :	can switch them between two hosts	Yes		NA		Switching between host is possible.	Yes		Yes			Yes		Yes			
	SYSTEM REQUIREMENTS	supporting data transfer rates of up to 5 Gbps Operating System: Windows, Unux and Mac or above Max Resolution: 2048 x 1152	Yes		Yes	Resolution not mentioned	t 4K is also avilable and compatable with Windows, Linux and Mac	Yes		Yes	-	2	Yes		Yes			
	ENVIRONMENTAL	Operating Temperature: 0 - 40°C, Storage Temperature: -20 - 60°C, Humidity: 0 - 80% RH, Non- condensing	Yes		Yes			Yes		Yes			Yes		Yes			
	Cable Cubby																	
СС-НДМІ	Type 1 : Supply Installation	Testing Commissioning of Cable	eiscon	nnect ECC02	NT-	9CAX02			EIS-ECC02	Tales	EIS-ECC02		E	IS-ECC02		IS-ECC02		
5	Interface	Cable Cubby with 2 Universal Power Socket with 2 LAN,1 HDMI Pass Through with sliding Lid.		Datasheet not provided	Yes	DataSheet Not Provided	Attached Data sheet	Yes		Yes			Yes		Yes			
	CAMERA	REAL EXPLORATION AND THE STATE OF																
	Type 1 : Supply Installation	n Testing Commissioning of 12X																
	Parameter	172.8 Inch CMOS Effective Pixel: 2.07M f4.4mm - 88.5mm, f1.8 - f2.8 Optical Zoom: 12x Focus Mode: Auto Focus Minimal Illumination: 0.5 lux @ (f1.8, AGC ON) Shutter: 1/305 - 1/100005 White Balance: Auto, Indoor, Outdoor, One Push, Manual Backlight Compensation: Supported Horizontal Angle of View: 60.7° - 3.36° Vertical Angle of View: 44.1° - 1.89° Horizontal Rotation Range: ±170° Vertical Rotation Range: ±170° Vertical Rotation Range: 30° - +90° Pan Speed Range: 1.7° - 100°/S Tilt Speed Range: 1.7° - 69.9°/S H & V FLIP: Supported Imago, Ereasing, Support	Yes	1/2.7"	Yes	1.Presets ? 2. Shutter speed	Numer of Presets : 100 per camera Shutter speed-1/30s to 1/16000s @ 60 Hz :Whole premises can be covered within the given Presets	Yes		Yes			Yes		Yes			
CAM12X	Interfaces	HD Output: 1 x HDMI: Version 1,3 Network Interface: 1 x RJ45: 10M/100M Ethernet Interface Audio Interface: 1-ch 3.5mm Audio Interface, Line In / Mic In USB: 1 x USB 3.0: type B female Jack, 1 x USB 2.0: type A female Jack Communication: 1 x RS232 In,out: B-Pin Min din,Protocols: VISCA/Pelco-D/Pelco-P	Yes	Usb One only	Yes	1.Check Two usb ? 2. Usb Connectivity without software ?	USB 2.0 Type -C Available (Internation) Panasonic Cameras which has multiple base band outputs Like HDMI, 3G-SDI and USB. Main usage of USB to connect Cloud VC which is possible with 1 no of USB port. For recording it gives uncompressed output via HDMI and 3G-SDI.		¥	Yes			Yes		Yes	-		
	USB Features	Operating Systems: Windows 7 or above, MacOS X, Linux • Color System: YUYZ/MJPEG/H. 264 • Video Formats: USB 3.0, 2.0 • USB Video Communication: UVC	Yes		Yes			Yes		Yes			Yes		Yes			

	IPC Features	Video Compression: H.265/H.264/MJEPG Video Stream: Main Stream, Sub Stream Main Stream Resolution: 1920x1080, 1280x720, 1024x576 Sub Stream Resolution: 2720x576, 720x480, 320x240 Video Bit Rate: 128kbp - 8192kbps Bit Rate Type: Variable Rate, Fixed Rate Frame Rate: 50Hz: 1fps - 50fps, 60Hz: 1fps - 60fps Audio Compression: AAC Audio Bit Rate: 96kbps, 128kbps, 256kbps Support Protocols: TCP/IP, HTTP, RTSP, RTMP, Onvil, DHCP, Multicast, etc	Video and audio bit rate ?	Yes	AW-UE20WED	Yes	learone 150PTZ	Yes	Clearone 150PTZ		Yes	1.150PTZ	Yes	ne 150PTZ			
	Type 2 : Supply Installation	Testing Commissioning of 20X 1/2.8 inch CMOS Effective Pixel: 2.07M	At I PIU 12	Panasonic A	AW-DEZUWED		Licarone 150PIZ		rearone 190712		Clearone	120712	Clearo	TOUR IL			
	Parameter	Filective Pacific 2007  F14.4mm = 08.5mm, f1.8 - [7.8  Optical Zoom: 20x  Digital Zoom: 16x  Focus Mode: Auto Focus  Minimal Illumination: 0.5 I ux @  (f1.8, AGC ON)  Shutter: 1/30s - 1/10000s  White Balance: Auto, Indoor, Outdoor, One Push, Manual  Backlight Compensation:  Supported  Horizontal Angle of View: 60.7° -  3.36°  Vertical Angle of View: 41.1° -  1.89°  Horizontal Rotation Range: ±170°  Vertical Rotation Range: ±170°  Vertical Rotation Range: -30° -  +90°  Pan Speed Range: 1.7° - 100°/S  Tilt Speed Range: 1.7° - 69.9°/S  Ith Speed Range: 1.7° - 69.9°/S  Ith Speed Range: 1.7° - 69.9°/S	1/2.7"	Yes	Numer of Presets : 100 per camera Sh speed - 1/30s to 1/16000s @ 60 Hz :WI premises can be covered within the gP Presets	ole		Yes			Yes		Yes		-		
2 CAM20X	Interfaces	HD Output: 1 x HDMI: Version 1.3 Network Interface: 1 x RJ45: 10M/100M Ethernet Interface Audio Interface: 1-Ch 3.5mm Audio Interface, Line In / Mic In USB: 1 x USB 3.0: type B female jack, 1 x USB 2.0: type A female jack Communication: 1 x RS232 In,out: 8-Pin Min din, Protocols: VISCA/Pelco-D/Pelco-P	Usb One only	Yes	1.Check Two usb ? 2. Usb Connects Whith has mutiple base band or Like HDMI, 3G-SDI and USB. Main usa USB to connect Cloud VC which is possible 1 no of USB port. For recording it giv uncompressed output via HDMI and 3G	tputs e of e with		Yes			Yes		Yes				e
	USB Features	Operating Systems: Windows 7 or above, MacOS X, Linux		Yes		Yes		Yes			Yes		Yes				
	IPC Features	Video Compression: H.265/H.264/MIEPG Video Stream: Main Stream, Sub Stream: Main Stream, Sub Stream: Main Stream, Sub 1920x1080, 1280x720, 1024x576 Sub Stream Resolution: 720x576, 720x80, 320x240 Video Bit Rate: 128Kbps - 8192Kbps Bit Rate Type: Variable Rate, Fixed Rate Frame Rate: 50Hz: 1fps - 50fps, 60Hz: 1fps - 60fps Audio Compression: AAC Audio Bit Rate: 96Kbps, 128Kbps, 256Kbps Support Protocols: TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc	Video and audio bit rate ?	Yes		Yes		Yes			Yes		Yes				
	Supply Installation Testing C	Commissioning of Wall Mount kit	A& T PTC 20MN	Panasonic	AW-UESOWED	CI	earone 200 Pro PTZ	C	earone 200 Pro PTZ		Clearone	200 Pro PTZ	Clearon	e 200 Pro PTZ			
3 CAM-WMK	Supply Installation Testing Com Mount kit for	missioning of Wall Mount KIT : Wall Camera or Better Yes		Yes		Yes		Yes			Yes		Yes			,	
4 PC	Latest XI  12th Generation Intel® Core" cores, Min 20 threads, M or higher. The offered Processor life declaration by OEM as on bit better. OEM Motherboard. Min 16 up to 128 GB with min 4 DIMM S 3.2 Gen 1 Type-A port, 1 USB 3 Audio Jack, 1 Line-out, Uine-in a RU-45 port 10/100/1000 Mbps. 2! 4 x16 slot), 2 M.2 Slots or better higher. 1 TB SATA at 7200 RPM better. 10/100/1000 Gigabit Ethe S. Small Form Factor, Tool less ( internal power supply unit (PSL Keyboard (same make as pc.). V Windows 10 Pro 64 Bit or bet Certified for Desktop & TCO	eting Commissioning of PC  36 processor  17 or higher, 25MB cache, Min 12 in 2.10GHz to 4.90GHz, 65W s should not be mentioned in end-of- d calling date. Intel Q670 Chipset or GB DDR4 RAM 2666 MHz expandable lots. External USB: (Minimum 5 USB 1.2 Gen 2 Type-C port), 1 Universal udio port, 2 DisplayPort 1.4 ports, 1 PCI/PCIe slots (Minimum: 1 PCIe Gen Min 256 GB M.2 PCIe NVME SSD or or better. Min 21.5" FHD Monitor or rinet and 802.11ac Wi-Fi + Bluetooth Chassis with Intrusion Switch, 260W 1), 85% Efficient or better, wireless Vireless mouse (same make as pc). ter. Energy star 6.0, EPEAT India 8.0 for Monitor, ISO 9001:2008 or OEM or better.	No data sheet	Yes	All the Specs are matching as per ti datasheet provided	Yes		Yes			Yes		Yes				

Part			Lenovo-M80S Desktop + S22e 21.5 Monitor	Lenovo- M70	T Gen3 + K & M		Dell	Optiplex 5000 Tower	Dell	Optiplex 5000 Tower	Dell Optip	lex 5000 Tower	Dell Optig	plex 5000 Tower	1		
Marical Action   Mari	SARGER STREET, SARGER SARGE	MYCDODHONE					=								1		 コ
14   15   15   15   15   15   15   15		PICROPHONE									 						 _
Marie   Mari		Type 1 : Supply Installation Testing Commissioning of					YES		YES		YES		YES		,		
Marie   Mari			Yes	Yes	LCD		YES	LCD	YES	Lcd display	YES		YES		+	+	 _
Part		OLED display for full control										Lcd display		Lcd display			 _
March   1.00			Yes	Yes			YES		YES		YES		YES		1 '		
Marie   Mari	MIC	Fully tunable in a stable UHF range with control software included for	Yes	Yes			YES		YES		YES		YES		_		 _
Part		advanced frequency  High RF output power 30 mW, a with Squelch 5 to 25 dBµV in steps of	Yes	Yes	-		YES	+	YES	-	YES	<u> </u>	YES		+'		 _
Marie   Mari			NO 15khz	Yes			YES				YES			-	<del></del>	+	 _
Mathematical part									1.25		125		,,,,				
Marie   Mari	ARCHARING SERVICE			Shura	MY303/C			volution wireless G4		volution wireless G4		on wireless G4	evoluti	on wireless G4	1		 _
Marie   Mari				Silate	11,23376		163		l'es			1	res		1 /		
Marie   Mari		Microphone with half-rack receiver in a full-metal housing with intuitive	Yes	On/Off Buttton	4 7 1 7 7	以 医对抗性 经有限 医皮肤	Yes		Yes		Yes		Yes				
March   Marc			Yes	50hz-17khz	- 19	1. 数据 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Yes		Yes		 Yes		Yes		+	<del></del>	 _
Marke   Mark	TABL-MIC	cardioid, Frequency response: .40 Hz-20 kHz			DataSheet Not	Var Available attached datachest for reference	19				1.00				1 /	1 1	
Marie			Yes	Yes	Provided		533		Yes		Yes		Yes		1	1	
March   Marc			Vac		- 1	是1980年1980年1980年	Yes				V		V			1	 _
Part		Current consumption: 1.5 mA,		res	117	2. 10 10 10 10 10 10 10 10 10 10 10 10 10											
Note   100		SPEAKERS	U891RCb	-			Speechl	ine Wired MEB 114 (-S)	1	SpeechLine Wired	SpeechLine V	rred MEB 114 (-S)	SpeechLine V	WIRED MEB 114 (-S)		<del></del>	 _
Marie   Mari		Type 1 : Supply Installation Testing Commissioning of Wall	Yes	Yes			Yes		Yes		Yes		Yes				_
Section 1.		Mount Speakers															
Marie   Mari													10,000				 
Market Property Service			Yes	Yes		1	Yes		Yes		Yes		Yes				
Manual Control Production State 1970 (1970)   1970   197	SF-SPKR30	6	Yes	Yes			Yes		Yes		Yes		Yes		1		
Part			Yes	Yes			Yes		Yes		Yes		Yes				 _
March   Marc			Yes	Yes	-		Yes	+	Yes	<del>                                     </del>	 Yes		Yes		+	+	 _
Mary Control (1)			Yes												-	1	 _
Part		Mounting Hardware: Yoke Mount for horizontal and vertical installation					res		res								
Part		DSP	Blamp EX-S6	QSC	AC-S6T		1	QSC AC-S6T	-	QSC AC-S6T	QS	C AC-S6T	Q	SC AC-S6T	+		_
No.   1. Page   Indicate   Page   1. Page	Serie Hansey			Yes			Yes		Yes		 Yes	-	Yes				 _
Part		Type 1 : Supply Installation Testing Commissioning of DSP															
March   Marc			NO 12 input	Yes			Yes		Yes		Yes		Yes				
1949   1949		16x16 GPIO ports,		<i>y</i>													 
Mathematic properties for the control of the cont		and VOID House to anable brush serves restables features in the	Yes	Yes			Yes		Yes		Yes		Yes				
See the control of con	DSP1/016	processor													1		_
March		It should be perpetual and have capability to connect any number of	Yes	Yes			Yes		Yes		Yes		Yes				
Marity   M		touch screen conduiters including 1037 windows based couch screens.	Yes	Ves			Yes		Yes		Vac		Var	-			 _
MANUFACTOR   MAN				1.0			1.0		1.03		lies .				1		
Marine   M	pelos al la series		TESIRAFORTÉ AVB CI	OSC O-S	/S Core 110f			SC 0-SYS Core 110f	-	OSC 0-SYS Core 110f	osc o-	SYS Core 110f	osc o	-SYS Core 110f	+	+	 _
Page 15   Page		AMPLIFIER															 _
	ATTEMPT	Type 1: Supply Installation Testing Commissioning of Amplific	Yes	Yes	-		Yes	+	Yes		Yes		Yes		1		_
APPZION   Part Challenge As Sept.   Part C		Type 1. Supply Installation Testing Commissioning of Amphiles	V														 _
Relight Role Four Principant 20 with internal to project and in the control of		2 Channel Class D amplifier with Minimum 60 Watts Dynamic Power	res	Yes			Yes		Yes		Yes		Yes			1	
AMPZIAG  Filterior Project Program 2019 - 100 -				1				1									_
Frequency Repeater 20 for - 20 Miles   Frequency Spands   Frequency			V				4		-								
Comparison   Com		Bridge Mode Power Minimum 200 watts into low impedance & up to	Yes	Yes			Yes		Yes	-	Yes		Yes				
Manifum Injust Letter 42 dist, Injust Sensitivity 44 dist, Injus Sensitivity 4	AMP2X60	250 watts into 70V or 100V															 _
Voltage Cain 2-24 dB.   Voltage Cain 2-24 dB.   Value   Valu	AMP2X60	250 watts into 70V or 100V  Frequency Response: 20 Hz - 20 kHz). Front Panel Power, Signal &													+		_
Select   S	AMP2X60	Frequency Response: 20 Hz - 20 kHz), Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum	Yes	Yes		,	Yes		Yes		Yes		Yes				 _
USBSPACE   Supply Institiation   Texting Commissioning of USB   Ves	AMP2X60	250 watts into 70V or 100V  Frequency Response: 20 Hz - 20 kHz). Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.	Yes	Yes		,	Yes		Yes		Yes		Yes				_
Type 1   Supply Installation   Testing Commissioning at USB   Ves   Ve	AMP2X60	Frequency Response: 20 Hz - 20 kHz). Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be included or	Yes Yes Yes	Yes Yes Yes			Yes		Yes		Yes Yes Yes		Yes Yes Yes				_
Speaker plane   Ves	AMP2X60	Frequency Response: 20 Hz - 20 kHz). Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be included or better	Yes Yes Yes	Yes Yes Yes	PA2-60		Yes	QSC SPA2-60	Yes	QSC SPA2-60	Yes Yes Yes	SPA2-60	Yes Yes Yes	C SPA2-60			
AUDIO	AMP2X60	Frequency Response: 20 Hz - 20 kHz). Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be included or better  USB Speaker phone	Yes Yes blamp REVAMP2120T	Yes Yes Yes QSC S	PA2-60		Yes Yes Yes	QSC SPA2-60	Yes Yes Yes	QSC SPA2-60	Yes Yes Yes	SPA2-60	Yes Yes Yes	C SPA2-60			
Bandwidth: 190 Hz - 20 Hz   Mix optule level: 85 BFL@ 1   Mix optule level: 85 BFL@ 2   Mix optule level: 85 BFL@ 3   Mix optule level: 85 BFL@ 4   Mix op	AMP2X60	Frequency Response: 20 Hz - 20 kHz). Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be included or better  USB Speaker phone  Type 1: Supply Installation Testing Commissioning of USB	Yes Yes Yes blamp REVAMP2120T Yes	Yes Yes Yes QSC S	PA2-60		Yes Yes Yes	QSC SPA2-60	Yes Yes Yes	QSC SPA2-60	Yes Yes Yes QS0	SPA2-60	Yes Yes Yes QS	C SPA2-60			
AUDIO	AMP2X60	Frequency Response: 20 Hz - 20 kHz). Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be included or better  USB Speaker phone  Type 1: Supply Installation Testing Commissioning of USB Speaker phone	Yes Yes Yes blamp REVAMP2120T Yes	Yes Yes Yes QSC S	PA2-60 ]		Yes Yes Yes	QSC SPA2-60	Yes Yes Yes	QSC SPA2-60	Yes Yes Yes QS0	SPA2-60	Yes Yes Yes QS	C SPA2-60			
Bandwidth: 100 Hz - 12 kHz   Full-Duplex Acoustic Etho Cancellation (AEC)   Noise Cancellation (AEC)   Automatic Level Control (ALC)	AMP2X60	Frequency Response: 20 Hz - 20 kHz). Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be included or better  USB Speaker phone  Type 1: Supply Installation Testing Commissioning of USB Speaker phone  Speaker Bandwidth: 190 Hz - 20 kHz	Yes Yes Yes blamp REVAMP2120T Yes	Yes Yes Yes QSC S	PA2-60		Yes Yes Yes	QSC SPA2-60	Yes Yes Yes	QSC SPA2-60	Yes Yes Yes QS0	SPA2-60	Yes Yes Yes QS	C SPA2-60			
USBSPKPH	AMP2X60	Frequency Response: 20 Hz - 20 kHz). Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be included or better  USB Speaker phone  Type 1: Supply Installation Testing Commissioning of USB Speaker phone  Speaker Bandwidth: 190 Hz - 20 kHz Max output level: 85 dB SPL @ 1 meter	Yes Yes Yes blamp REVAMP2120T Yes	Yes Yes Yes QSC S	PA2-60		Yes Yes Yes	QSC SPA2-60	Yes Yes Yes	QSC SPA2-60	Yes Yes Yes QS0	SPA2-60	Yes Yes Yes QS	C SPA2-60			
Noise Cancellation (NC)	AMP2X60	Frequency Response: 20 Hz - 20 kHz). Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be Included or better  USB Speaker phone  Type 1: Supply Installation Testing Commissioning of USB Speaker phone  Speaker phone  Speaker Bandwidth: 190 Hz - 20 kHz Max output level: 85 dB SPL @ 1 meter Microphone	Yes Yes Yes blamp REVAMP2120T Yes	Yes Yes Yes QSC S	PA2-60		Yes Yes Yes	QSC SPA2-60	Yes Yes Yes	QSC SPA2-60	Yes Yes Yes QS0	SPA2-60	Yes Yes Yes QS	C SPA2-60			
COMPATIBILITY   Windows 8 or higher   MAC OSX   Yes	AMP2X60	Frequency Response: 20 Hz - 20 kHz). Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be included or better  USB Speaker phone  Type 1: Supply Installation Testing Commissioning of USB Speaker phone  Speaker phone  Speaker Bandwidth: 190 Hz - 20 kHz Max output level: 85 dB SPL @ 1 meter  AUDIO  AUDIO  Bandwidth: 100 Hz - 12 kHz Full-Duplex Acoustic Echo	Yes Yes Yes blamp REVAMP2120T Yes	Yes Yes Yes QSC S	PA2-60		Yes Yes Yes	QSC SPA2-60	Yes Yes Yes	QSC SPA2-60	Yes Yes Yes QS0	SPA2-60	Yes Yes Yes QS	C SPA2-60			
MAC OSX	AMP2X60	Frequency Response: 20 Hz - 20 kHz). Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be included or better  USB Speaker phone  Type 1: Supply Installation Testing Commissioning of USB Speaker phone  Speaker Bandwidth: 190 Hz - 20 kHz Max output level: 85 dB SPL @ 1 meter Microphone  Bandwidth: 100 Hz - 12 kHz Full-Duplex Acoustic Echo Cancellation (AEC)  Noise Cancellation (NC)	Yes Yes Yes blamp REVAMP2120T Yes	Yes Yes Yes QSC S	PA2-60		Yes Yes Yes	QSC SPA2-60	Yes Yes Yes	QSC SPA2-60	Yes Yes Yes QS0	SPA2-60	Yes Yes Yes QS	C SPA2-60			
MAC USX   USB Mint B port   Yes		Frequency Response: 20 Hz - 20 kHz). Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be included or better  USB Speaker phone  Type 1: Supply Installation Testing Commissioning of USB Speaker phone  Speaker Bandwidth: 190 Hz - 20 kHz Max output level: 85 dB SPL @ 1 meter Microphone  Bandwidth: 100 Hz - 12 kHz Full-Duplex Acoustic Echo Cancellation (AEC)  Noise Cancellation (NC)	Yes Yes Yes blamp REVAMP2120T Yes	Yes Yes Yes QSC S	PA2-60		Yes Yes Yes	QSC SPA2-60	Yes Yes Yes	QSC SPA2-60	Yes Yes Yes QS0	SPA2-60	Yes Yes Yes QS	C SPA2-60			
INTERFACE		Frequency Response: 20 Hz - 20 kHz). Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be included or better  USB Speaker phone  Type 1: Supply Installation Testing Commissioning of USB Speaker phone  Speaker Bandwidth: 190 Hz - 20 kHz Max output level: 85 dB SPL @ 1 meter Microphone  Bandwidth: 100 Hz - 12 kHz Full-Duplex Acoustic Echo Cancellation (AEC)  Noise Cancellation (NC) Automatic Level Control (ALC)	Yes Yes Yes blamp REVAMP2120T Yes	Yes Yes Yes QSC S Yes	PA2-60		Yes Yes Yes Yes Yes Yes	QSC SPA2-60	Yes Yes Yes Yes Yes	QSC SPA2-60	Yes Yes Yes QS6 Yes	SPA2-60	Yes Yes Yes QSi Yes	C SPA2-60			
CONTROLS		Frequency Response: 20 Hz - 20 kHz), Front Panel Power, Signal & Clip LED.  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounthing Brackets to be included or better  USB Speaker phone  Type 1: Supply Installation Testing Commissioning of USB.  Speaker phone  Speaker Bandwidth: 190 Hz - 20 kHz Max output level: 85 dB SPL @ 1 meter  Microphone  AUDIO  Bandwidth: 100 Hz - 12 kHz Full-Duplex Acoustic Echo Cancellation (AEC) Noise Cancellation (AEC) Automatic Level Control (ALC)  Windows 8 or higher MAC OSX	Yes Yes blamp REVAMP2120T Yes Yes	Yes Yes Yes QSC S Yes Yes	PA2-60		Yes Yes Yes Yes Yes Yes Yes	QSC SPA2-60	Yes Yes Yes Yes Yes	QSC SPA2-60	Yes Yes Yes QSG Yes Yes Yes	SPA2-60	Yes Yes QS Yes Yes Yes	C SPA2-60			
Microphone mute		Frequency Response: 20 Hz - 20 kHz), Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be included or better  USB Speaker phone  Type 1: Supply Installation Testing Commissioning of USB Speaker phone  Speaker phone  Speaker Bandwidth: 190 Hz - 20 kHz Max output level: 85 dB SPL @ 1 meter Microphone Bandwidth: 100 Hz - 12 kHz Full-Duplex Acoustic Echo Cancellation (AEC) Noise Cancellation (NC) Automatic Level Control (ALC)  COMPATIBILITY  Windows 8 or higher MAC OSX  USB Mini B port Version 2.0 compatible	Yes Yes blamp REVAMP2120T Yes Yes	Yes Yes Yes QSC S Yes Yes	PA2-60		Yes Yes Yes Yes Yes Yes Yes	QSC SPA2-60	Yes Yes Yes Yes Yes	QSC SPA2-60	Yes Yes Yes QSG Yes Yes Yes	SPA2-60	Yes Yes QS Yes Yes Yes	C SPA2-60			
POWER         USB-powered 5 VDC @ 500 mA Maximum 5 VDC @ 500 mA Maximum 1		Frequency Response: 20 Hz - 20 kHz), Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be included or better  USB Speaker phone  Type 1: Supply Installation Testing Commissioning of USB Speaker phone  Speaker phone  Speaker Bandwidth: 190 Hz - 20 kHz Max output level: 85 dB SPL @ 1 meter Microphone Bandwidth: 100 Hz - 12 kHz Full-Duplex Acoustic Echo Cancellation (AEC) Noise Cancellation (NC) Automatic Level Control (ALC)  COMPATIBILITY Windows 8 or higher MAC OSX USB Mini B port Version 2.0 compatible Keyed RJ-45 (8 conductor) Volume up	Yes Yes blamp REVAMP2120T Yes Yes Yes	Yes Yes Yes QSC S Yes Yes	PA2-60		Yes Yes Yes Yes Yes Yes Yes Yes	QSC SPA2-60	Yes Yes Yes Yes Yes Yes	QSC SPA2-60	Yes Yes Yes QS6 Yes Yes Yes Yes	SPA2-60	Yes Yes QS Yes Yes Yes Yes	C SPA2-60			
S VID. (© 500 MA Maximum   Yes   Y		Frequency Response: 20 Hz - 20 kHz), Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounthing Brackets to be included or better  USB Speaker phone  Type 1: Supply Installation Testing Commissioning of USB.  Speaker phone  Speaker Bandwidth: 190 Hz - 20 kHz Max output level: 85 dB SPL @ 1 meter  Microphone  AUDIO  Bandwidth: 100 Hz - 12 kHz Full-Duplex Acoustic Echo Cancellation (AEC) Noise Cancellation (NC) Automatic Level Control (ALC)  COMPATIBILITY  Windows 8 or higher MAC OSX  USB Mini B port Version 2.0 compatible Keyed R3-45 (8 conductor) Volume up Volume down	Yes Yes blamp REVAMP2120T Yes Yes Yes	Yes Yes Yes QSC S Yes Yes	PA2-60		Yes Yes Yes Yes Yes Yes Yes Yes	QSC SPA2-60 [	Yes Yes Yes Yes Yes Yes	QSC SPA2-60	Yes Yes Yes QS6 Yes Yes Yes Yes	SPA2-60	Yes Yes QS Yes Yes Yes Yes	C SPA2-60			
104° F (5° C - 40° C)		Frequency Response: 20 Hz - 20 kHz), Front Panel Power, Signal & Clip LED.  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be included or better  USB Speaker phone  Type 1: Supply Installation Testing Commissioning of USB.  Speaker phone  Speaker Bandwidth: 190 Hz - 20 kHz Max output level: 85 dB SPL @ 1 meter  Microphone  AUDIO  Bandwidth: 100 Hz - 12 kHz Full-Duplex Acoustic Echo Cancellation (AEC) Noise Cancellation (NC) Automatic Level Control (ALC)  COMPATIBILITY  Windows 8 or higher MAC OSX  USB Mini B port Version 2.0 compatible Keyed RJ-45 (8 conductor) Volume down Microphone mute USB-powered	Yes  Yes  Yes  blamp REVAMP2120T  Yes  Yes  Yes  Yes	Yes Yes Yes QSC S Yes Yes Yes	PA2-60		Yes Yes Yes Yes Yes Yes Yes Yes	QSC SPA2-60 [	Yes Yes Yes Yes Yes Yes Yes	QSC SPA2-60	Yes	SSPA2-60	Yes Yes QS Yes Yes Yes Yes Yes	C SPA2-60			
		Frequency Response: 20 Hz - 20 kHz), Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be included or better  USB Speaker phone  Type 1: Supply Installation Testing Commissioning of USB Speaker phone  Speaker Bandwidth: 190 Hz - 20 kHz Max output level: 85 dB SPL @ 1 meter Microphone  Bandwidth: 100 Hz - 12 kHz Full-Duplex Acoustic Echo Cancellation (AEC) Noise Cancellation (NC) Automatic Level Control (ALC)  COMPATIBILITY Windows 8 or higher MAC OSX USB Mini B port Version 2.0 compatible Keyed RJ-45 (8 conductor) Volume up Volume down Microphone mute USB-Powered 5 VDC @ 500 mA Maximum Operating Lengardures 12° F -	Yes Yes  Yes  blamp REVAMP2120T  Yes  Yes  Yes  Yes  Yes	Yes Yes Yes QSC S Yes Yes Yes Yes Yes	PA2-60		Yes	QSC SPA2-60 [	Yes Yes Yes Yes Yes Yes Yes Yes	QSC SPA2-60	Yes	SSPA2-60	Yes Yes Yes QS Yes Yes Yes Yes Yes	C SPA2-60			
		Frequency Response: 20 Hz - 20 kHz), Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be included or better  USB Speaker phone  Type 1: Supply Installation Testing Commissioning of USB Speaker phone  Speaker Bandwidth: 190 Hz - 20 kHz Max output level: 85 dB SPL @ 1 meter Microphone  Bandwidth: 100 Hz - 12 kHz Full-Duplex Acoustic Echo Cancellation (AEC) Noise Cancellation (NC) Automatic Level Control (ALC)  COMPATIBILITY Windows 8 or higher MAC OSX USB Mini B port Version 2.0 compatible Keyed RJ-45 (8 conductor) Volume up Volume down Microphone mute USB-Powered 5 VDC @ 500 mA Maximum Operating Lengardures 12° F -	Yes Yes  blamp REVAMP2120T  Yes  Yes  Yes  Yes  Yes  Yes  Yes	Yes Yes Yes QSC S Yes Yes Yes Yes Yes Yes Yes			Yes		Yes		Yes Yes Yes QSC Yes Yes Yes Yes Yes Yes Yes Yes		Yes				
		Frequency Response: 20 Hz - 20 kHz), Front Panel Power, Signal & Clip LED,  Maximum Input Level +24 dBu, Input Sensitivity +4 dBu, Maximum Voltage Gain >24 dB.  Rack Mountable 1U Enclosure, Mounting Brackets to be included or better  USB Speaker phone  Type 1: Supply Installation Testing Commissioning of USB Speaker phone  Speaker Bandwidth: 190 Hz - 20 kHz Max output level: 85 dB SPL @ 1 meter Microphone  Bandwidth: 100 Hz - 12 kHz Full-Duplex Acoustic Echo Cancellation (AEC) Noise Cancellation (NC) Automatic Level Control (ALC)  COMPATIBILITY Windows 8 or higher MAC OSX USB Mini B port Version 2.0 compatible Keyed RJ-45 (8 conductor) Volume up Volume down Microphone mute USB-Powered 5 VDC @ 500 mA Maximum Operating Lengardures 12° F -	Yes Yes  blamp REVAMP2120T  Yes  Yes  Yes  Yes  Yes  Yes  Yes	Yes Yes Yes QSC S Yes Yes Yes Yes Yes Yes Yes			Yes		Yes		Yes Yes Yes QSC Yes Yes Yes Yes Yes Yes Yes Yes		Yes				

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		Commissioning of 10" or Above ch panel	9th Gen	v.2-inch iraq Wi-Fi 64GB - açe Grev	Creston T	SW-1070-B-S			(ramer-KT-1010		Kramer-KT-1010		Apple IPAI	10 inches quoted	Apple i	Pad 10 iches			
		support Wifi Connectivity	Data Not provided	1	Yes			Yes	1920 x 1080p is relevant for	Yes	1920 x 1080p is relevant for		Yes		Yes				#
TP-10"	Minimum Display/Panel re	esolution -1920 x 1200 pixels	Data Not provided	1	Yes			No-1280X800	19/0 x 1080p is relevant for large display screens where in higher number of horizontal lines are required for better clarity and resolution, For tablets, ipads, 1280 x 800 ( which is higher than 720p) pixels provides high clarity when combined with the 16:9 aspect ratio. Touch panel will be used to control the AV devices in the room and those will be visible via large icons, so there will be no degradation in quality. Request you to accept this resolution	No-1280X800	1920 x 1080p is relevant for large display screens where in higher number of horizontal lines are required for better clarity and resolution. For tablets, judgas, 1280 x 800 (which is higher than 720p) pixels provides high clarity when combined with the 16:9 aspect ratio.  Touch panel will be used to control the AV devices in the room and those will be visible via large icons, so there will be no degradation in quality. Request you to accept this resolution.		Yes		Yes	Mail confirmatio from OEM			
	Supply Installation Testing (	Commissioning of Wall Docking	Belkin	n Or Better	Creston F	PWE-4803RU			(ramer-KT-1010		Kramer-KT-1010		Na elde	r brand quoted	Offered model	by SEC is from Heckler			#
TB-DOCK	Power and Connectivity: Powere	and Power  d by power outlet via power adapter h Lightning Connector			Yes	Datasheet Enclosed	Proposed with POE Powered 30 W charger wit docking station	Yes	the Kramer KT-1010 comes with both wall and table mount kits as default which can be used to mount the touch panel on the wall. Since it is customised to fit the KT-1010, it will comply to both power and connectivity requirements. Underlined in red on page 2 of PDF	Yes	the Kramer KT-1010 comes with both wall and table mount kits as default which can be used to mount the touch panel on the wall. Since it is customised to fit the KT-1010, it will comply to both power and connectivity requirements. Underlined in red on page 2 of PDF		Yes		Yes	y see a non-necessary		-	
	Anti-slip pad for	atch-free docking r strong surface grip e aluminum material	Data Not provided	1	Yes	Datasheet Enclosed		Yes	Mail confirmatio from OEM	Yes	Mail confirmatio from OEM		Yes		Yes				
	Supply Installation Testing Co	ommissioning of Wireless Router	D-Link	k DIR-2610	Netge	ar R6850			Netgear-R6120		Netgear-R6120		Net	gear-R6120	Netr	ear-R6120		 	7
WRL-		802.11ac wireless Router	Data Not provided	N. C. THOMAS	Yes			Yes		Yes	l l l l l l l l l l l l l l l l l l l		Yes	Jean Rolls	Yes	l l			-
ROUTER	Supports WEP, WPA, WPA2, a	nd the latest WPA3 Wi-Fi Security	Data Not provided	1	Yes			Yes	WPA3 is not there	Yes			Yes		Yes				
	Supply Installation Testing C St	ommissioning of 8 Port Network witch	Dlink DGS-1210	0-10 + DEM-310GT	Netgear	GSM4212P		Replacement model – GS110TPV3	Quoted model is end of life from OEM, underlined in red on page 4 of PDF	Replacement model – GS110TPV3	Quoted model is end of life from OEM, underlined in red on page 4 of PDF		Netgear GS110TPV3	Quoted model is obsolete, hence replacement model offered from same brand. Ref – Page 9 arrow marked		ear-GS310TP	,		
	1PV6 Compliance	All Functionalities of Switch shall be IPv6 compliant and it should work on IPv6 Platform without any additional hardware/ software	e Data Not provided	1	Yes			Yes		Yes			Yes		Yes				
ITWRKSW-8 PORT	Ports	8 x 10/100/1000BASE-T ports     2 x 100/1000 Mbps SFP ports, SFP transceivers and Switch must be from the same OEM	Data Not provided	1	Yes	M4250 series	All complience and datasheet attached	Yes		Yes			Yes		Yes				
	Port Standards & Functions	Ports 1 to 8 compliant with IEEE 802.3ab	Data Not provided	1	Yes			Yes		Yes			Yes		Yes				
	Port status display	Each port must have a dedicated LED for status display	Data Not provided	1	Yes	1		Yes		Yes			Yes		Yes				
	Back Plane Bandwidth	At least 20Gbps switching bandwidth	Data Not provided		Yes			Yes		Yes			Yes		Yes				
	Network Management	The switch should support CNMD	Data Not provided	1	Data Not provided			Yes		Yes			Yes		Yes				
		mmissioning of Compact 16–Port Controller with PoE	t Aten	n Vk2200	CEN-10-IR-104	-10-COM-102 + + CEN-10-DIGIN			Kramer-SL-240C		Kramer-SL-240C		Kra	ner-SL-240C	Kran	ner-SL-240C			=
	BIDIRECTIONAL PORTS	4 RS-232 serial on 3-pin terminal blocks, 4 GPI/O on 2-pin terminal blocks, 1 Ethernet on a RJ-45 connector, 1 mini-USB connector	Insufficient	RS-232 ports not clear, GPI/O is not there,	104 + CSP-LIR	-038		Yes		Yes			Yes		Yes				
	INPUTS	1 built-in IR sensor (for learning)	Data Not provided	1	Yes			Yes		Yes		<del>  </del>	Yes		Yes				_
	OUTPUTS	4 IR out and 4 relays on 2-pin terminal block connectors	Yes	4-pole terminal	Yes			Yes		Yes			Yes		Yes				
	INDICATORS	LED indicator for each port and	Data Not provided	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Yes	-	Yes			Yes		Yes			 	-
	PROCESSOR SPEED	function 1GHz	No	Data Not provided	2.3Ghz 8Gb Ram , 256			Yes		Yes			Yes		Yes				=
	MEMORY POWER CONSUMPTION	512MB RAM, 4GB Flash 5V DC, 2A	Yes No	12V DC	SSD 19.5 Dc			Yes		Yes			Yes		Yes				_
CNTRLR	POWER SOURCE	PoE (for extra power resiliency, connect to the optional 5V DC power supply)	Data Not provided		Yes	Requiremnt for switcher. Model	Attached the Datachest in Bundle and	Yes		Yes			Yes		Yes				
	PRODUCT DIMENSION	18.75cm x 11.50cm x 2.54cm (7.38" x 4.53" x 1.00" ) W, D, H	No	43.24 x 16.32 x 4.40	NA	provided is for computer. Please check	complience with requirement	Yes		Yes			Yes		Yes				
	OPERATING TEMPERATURE	0° to +40°C (32° to 104°F)	Yes		Yes			Not Mentioned		Yes			Yes		Yes				
	STORAGE TEMPERATURE	-40° to +70°C (-40° to 158°F)	No	-20 - 60 °C	Yes			Not Mentioned		Yes		-	Yes		Yes			 	_
	HUMIDITY	10% to 90%, RHL non-condensing			Yes			Not Mentioned		Yes		-	Yes	-	Yes			 	_
		Controls any AV device/display with its corresponding logic.	Data Not provided		Yes			Yes		Yes			Yes		Yes				
	OTHER CRECTERS THOUS	Scalable & flexible control	Data Not provided		Yes			Yes		Yes			Yes		Yes				
	OTHER SPECIFICATIONS	Bidirectional RS-232 & IR with learning capability Network Support —	Yes		Yes	4		Yes		Yes	-		Yes		Yes				_
		10/100/1000Mbps Ethernet.  LED Indicators — I/O port state	Yes		Yes	-		Yes		Yes			Yes		Yes				
		LED INDICATORS — NO port state	Yes	I	Yes	1		Yes		Yes		1 1	Yes	1	Yes	1			- 1
		and system status.	Tes .	-		-		0				<del>                                     </del>					-		$\rightarrow$

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		Testing Commissioning of HDMI	Aten	2L-7D03H	NT-18	3C03-10	ĺ	Kran	ner - C-HM/HM-10	Kr	mer - C-HM/HM-10	1	Kramer	- C-HM/HM-10	Kramer	- C-HM/HM-10	1	1	1 1	í
	TYPE	High Speed and Standard Speed		T	Yes	T					- C-117/117-10			C-111/1111-10		- C-III/IIII-10		-		
	MAX. RESOLUTION	HDMI cables 4K@60Hz (4:4:4)	Yes		Yes			Yes Yes		Yes			Yes		Yes					
	CONDUCTOR AWG	28 AWG (7/0.127)	Yes		Yes			Yes		Yes			Yes		Yes					
1 CAB-HD-10	SHIELD	Dual overall shield against EMI/RFI interference, (a) Al-Mylar, (b) tinned copper	No	Aluminium foil	No	Armoring and copper only	ь	Yes	Triple shielding	Yes			Yes		Yes					
7.86	CABLE OD (MM)	3-35ft: 8 ± 0.19mm or better	No	6 ± 0,2mm	No	6.2 mm		No	6.50 ± 0,15mm	Yes			Yes		Yes					
	MOLDED CONNECTORS	Yes	Data Not provided		Yes		It is a Patch Cable with Moulded Connector	Yes		Yes			Yes		Yes					
	GOLD-PLATED CONNECTORS	Yes	Yes		Yes			Yes		Yes			Yes		Yes					
	STANDARDS COMPLIANCE	HDR, HDCP	Yes		Yes	HDCP		Yes		Yes			Yes		Yes					
	FLAME TEST	CL2 preffered or applicable accrodingly to country of origin	Yes	UL VW-1 (Flame rate), CSA	Data not provided			Yes	CL3	Yes			Yes		Yes					
196 375.35		resting Commissioning of HDMI 25'	Aten \	VE781010	NT-1B	C03-7.5		Kramer	- C-HM/HM/PRO-25	Kram	er - C-HM/HM/PRO-25		Kramer - C	-HM/HM/PRO-25	Kramer - 0	C-HM/HM/PRO-25				
	TYPE	High Speed and Standard Speed HDMI cables	Yes		Yes	Ī		Yes		Yes			Yes		Yes					
	MAX. RESOLUTION CONDUCTOR AWG	4K@60Hz (4:4:4). 28 AWG (7/0.127)	Yes Data Not provided		Yes No	24 awg		Yes		Yes			Yes		Yes					
	COMPOCIONAING	Dual overall shield against EMI/RFI			No	24 awg		Yes	3	Yes			Yes		Yes					
CAB-HD-25	SHIELD	interference, (a) Al-Mylar, (b) tinned copper	Yes		No	Armoring and copper only		Yes	Triple shielding	Yes			Yes		Yes					
	MOULDED CONNECTORS	Yes	Data Not provided		Yes		It is a Patch Cable with Moulded Connector	Yes		Yes			Yes		Yes					
	GOLD-PLATED CONNECTORS	Yes	No	Zinc alloy	Yes			Yes		Yes			Yes		Yes					
	STANDARDS COMPLIANCE	HDR, HDCP	Yes		Yes Data not		-	Yes		Yes			Yes		Yes					
	FLAME TEST	CL2	Data Not provided		provided			Yes	CL3	Yes			Yes		Yes		-			
	Type 3 : Supply Installation	Testing Commissioning of HDMI 50'	Aten \	VE781020	NT-18	BC03-15		Kra	amer - CA-HM-50		ramer - CA-HM-50		Krame	r - CA-HM-50	Krame	er - CA-HM-50				
	TYPE	Premium / High-Speed HDMI Cable with Ethernet	No	Ethernet facility not available	Yes		Yes	Yes	3 4 /1.1	Yes			Yes	T T	Yes	T		1		
	MAX. RESOLUTION	Max Data Rate for 50ft (15.2m) lengths: 4.95Gbps (.99Gbps per	Yes	avanabio			Yes	Yes		Yes			Yes		Yes					
	CONDUCTOR AWG	channel) 50ft (15.2m) lengths: 24AWG (7/0.20)	Data not provided		Yes Yes		Yes	Yes	·	Yes			Yes		Yes			-		
	AUDIO	Supported Audio Formats: Dolby Digital Plus <sup>1m</sup> , Dolby TrueHD <sup>1m</sup> , DTS-HD Master Audio <sup>1m</sup> , DVD	Yes			Mentoned only	Yes	Yes		Yes			Yes		Yes					
		Audio, SA-CD HDMI Source: On a male HDMI			Yes	audio														
	PHYSICAL	type A, 24K gold–plated Lock connector HDMI Display: On a male HDMI type A, 24K gold–plated Lock connector	Data not provided	ı	Yes		Yes	Yes		Yes			Yes		Yes					
	JACKET	Material: PVC Color: Black Diameter for 8 ± 0.19mm	No	Dia : 4,5 mm		Fa. 10	No-OD:10mm	Yes		Yes			Yes		Yes					
CAB-HD-50	MECHANICAL	Cable Bending Radius for 80mm or better	No	20mm	Yes	OD:10mm	Yes	Yes		Yes			Yes		Yes	<del> </del>	+			
	ELECTRICAL	Temperature Rating: 80°C Voltage Rating: 30V Conductor Resistance – 24AWG: 63.2Ω/km MAX, at 20Ω or better	No	Temperature : 50°C and other data not provided	Data not		Data not provided	Yes		Yes			Yes		Yes					
	Specification	high—speed, high—performance digital video and audio with impeccable impedance stability, low skew, high signal integrity, and noise immunity	Data not provided		provided  Data not		Data not provided	Yes		Yes			Yes		Yes					
1	MOLDED CONNECTORS			-	provided											-				
	GOLD-PLATED CONNECTORS	Yes Yes	Data not provided		Yes		Yes	Yes		Yes			Yes		Yes	-			<del> </del>	
	GOLD-PLATED CONNECTORS	res	No	Zinc alloy	Yes		Yes	Yes		Yes			Yes		Yes	-	-			-
	STANDARDS COMPLIANCE	Safety: Flammability Rating — CL3/FT4 preffered or applicable accrodingly to country of origin Environmental: RoHS 2011/65/ EU preffered or applicable accrodingly		Safety: Flammability Rating — CL3/FT4 preffered is not there			Data not provided	Yes		Yes			Yes		Yes					
		to country of origin		_	Data not provided															
	Type 5 : Supply Installation T	esting Commissioning of HDMI						Yes		Yes			Yes		Yes					
		Max Data Rate for 82–98ft	-			(A)		Yes		Yes			Yes	-	Yes	-	-	-		
		(25–30m) length: 10.2 Gbps (3.4Gbps per channel)			Yes															
	VIDEO	HDMI Compliance: HDCP 2.2, HDR, EDID and CEC	<u>'</u>		Yes			Yes		Yes			Yes		Yes					
		Max Resolution for 98ft (30m) length: 1080p@60Hz 12–Bit			Yes			Yes		Yes	5.		Yes		Yes					
	AUDIO	Supported Formats: Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio™, DVD Audio, SA-CD			Yes			Yes		Yes			Yes		Yes					
	PHYSICAL	HDMI Source: On a male type A, 24K gold-plated K-Lock connector HDMI Display: On a male Type A, 24K gold-plated K-Lock connector (optional external power input via micro USB connector)			Yes			Yes		Yes			Yes		Yes					
	CONDUCTORS	66-98ft (20-30m) lengths: 24AWG		1	Yes	1		Yes		Yes			Yes		Yes			+		
HE III	SCREENING	TMDS pairs: Aluminum/mylar Overall: Aluminum/mylar +			Yes			Yes		Yes			Yes		Yes					
CAB-HD-98		aluminum braid Material: PVC Color: Black		Datasheet not provided		Datasheet not provided	Available attached datasheet for reference	Yes		Yes			Yes		Yes		-			+
	JACKET	Diameter - 66-98ft (20-30m) lengths: 9,5±0.25mm			TPU Material															

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		Cable Bending radius - 66-98ft (20 30m) lengths: 47.5mm or better		Yes	_		Yes		Yes				Yes		Yes					
	ELECTRICAL	Power Consumption: Up to 90mA / 1mA (standby mode) Temperature Rating: 80°C or better Voltage Rating: 30V or better Conductor Resistance - 24AWG: 381 Ω/km or better		Yes									Yes		Yes					TO LONG THE PARTY OF THE PARTY
	UL Listed	CL3/FT4 rated preffered or applicable accrodingly to country of origin for in-wall installations	F	Yes			Yes		Yes				Yes		Yes					
	REGULATORY	Electrical: UL listed, CL3/FT4 preffered or applicable accrodingly to country of origin Environmental: RoHS 2011/65/EU preffered or applicable accrodingly to country of origin		Yes			Yes		Yes				Yes		Yes					
	Type 6 · Supply Installation	Testing Commissioning of USB	Aten VE781030	NT I	BC22-30m		ka	rmer CLS-AOCH/60F		carmer CLS-AOCH/60F			karmer 0	CLS-AOCH/60F	karme	r CLS-AOCH/60F				
	TYPE: USB	2.0 High speed		Yes	(T. 1777)		Yes		Yes		-		Yes		Yes					
	CONNECTOR A	RATE: 480Mbps USB type-A male		Yes Yes		到1000000000000000000000000000000000000	Yes Yes		Yes Yes				Yes Yes		Yes Yes					
USBAB-6	CONNECTOR	USB type-B male PLATING: Nickel 5: 3-6ft: 28AWG		heet not Yes	Datasheet no provided	Datasheet attached for reference	Yes Yes		Yes				Yes Yes		Yes Yes					
	OVERALL SHEATH DIAME	TER: 3-6ft: 3.5mm or better TH COLOR: Gray		Yes Yes			Yes Yes		Yes				Yes		Yes Yes					
	STANDARDS: 2011/65/EU pre	fered or applicable accrodingly to	-1	Black NA			Yes Yes		Yes				Yes		Yes Yes					
	Type 6 : Supply Installation	Testing Commissioning of USB	eisconnect EC-Pro2- 2USB-A	D-1,6M NT 11	3H06 -1.6m		Yes	C-USB/AB	Yes	C-USB/AB	8			USB/AB	he to the state of	C-USB/AB				
	10	mtrs					. 43						Yes		Yes					
		3.0 High speed ATE: 5000 Mbps		Yes			Yes		Yes				Yes		Yes					
USB-10	CONNECTOR A CONNECTOR B:	ATE: 5000 Mbps USB type-A male USB type-A female PLATING: Nickel TH COLOR: Gray	Datas	heet not Yes	Datasheet no	第20日建设(1896年19月2日) 第20日建设(1896年19月2日)	Yes Yes Yes		Yes Yes Yes				Yes Yes Yes		Yes Yes					
	CONNECTOR OUTER SHEA	PLATING: NICKEI TH COLOR: Gray	pro	ovided NA Black	provided	1.000 法有限公司的任务公司公司	Yes Yes		Yes				Yes Yes		Yes Yes Yes					
	STANDARDS: 2011/65/EU pre	fered or applicable accrodingly to of origin		NA			Yes		Yes				Yes		Yes					ĺ
		Testing Commissioning of USB	Aten UE3310	NT 1B	H24 -10m		Yes Ki	ramer CA-USB3/AAE	Yes	Kramer CA-USB3/AAE				CA-USB3/AAE		r CA-USB3/AAE				
		mtrs 3.0 High speed		Yes	15 3.4. 1.1		Yes		Yes	-			Yes		Yes					-
4.7	MAX, DATA R	ATE: 5000 Mbps USB type-A male		Yes			Yes		Yes				Yes		Yes					
USB-30	CONNECTOR B:	USB type-A female		heet not Yes	Datasheet no	Datasneet attached for reference	Yes Yes		Yes Yes				Yes Yes		Yes Yes	-				
	OUTER SHEAT	PLATING: Nickel TH COLOR: Gray	pro	ovided NA Black	provided		Yes Yes		Yes Yes				Yes Yes		Yes Yes					
	STANDARDS: 2011/65/EU prei	fered or applicable accrodingly to of origin		NA			Yes		Yes				Yes		Yes					1
		esting Commissioning of 12U AV	Aten UE3315A Yes	Yes NT 1	3H20 -30m		Kı Yes	ramer CA-USB3/AAE	Yes	Kramer CA-USB3/AAE	Yes		Kramer (	CA-USB3/AAE	Yes Krame	r CA-USB3/AAE				
		19 "Equipment Rack 12U Floor	Yes	Yes	+		Yes		Yes	-	Yes		Yes		Yes					
	Presentation	Mount Made of Metal housing of all Rack equipments																		
	Dimensions	Height (mm) 638 Width (mm) 400 Depth (mm) 400, Front lockable	Yes	Yes			Yes		Yes	v	Yes		Yes		Yes					
	Cooling Fan		Yes	Yes			Yes		Yes		Yes		Yes		Yes	1				
	Height (mm) Width (mm)	600	Yes Yes Yes	Yes Yes			Yes Yes		Yes Yes		Yes		Yes		Yes Yes					
	Depth (mm) Approx.Net Wt (kg)	120	Yes Yes	Yes Yes			Yes Yes		Yes Yes		Yes Yes		Yes		Yes Yes		-			
	Enclosure	Cable Manager, 2 Heavy Duty Stationary Shelf, 1 Mounting Hardwar kit, Earthing Strips, 2 Castor Wheels (with Brake) 2 Castor Wheels (without Brake), Main Panel with Spike Buster, Power Distribution Unit, including all interconnection as required.					Yes		Yes		Yes		Yes		Yes					
RACK-12	DRAIN WIRE:	20AWG (10/30) tinned copper (in contact with shield).	Yes	Yes			Yes		Yes		Yes		Yes		Yes					
	SHIELD:	Aluminum Mylar foil 25% overlap rate.	Yes	Yes			Yes		Yes		Yes		Yes		Yes	+				
	OUTER JACKET COLOR:	Dark gray with blue lettering.	Yes	Yes			Yes	-	Yes		Yes		Yes		Yes	<u> </u>				
	CONDUCTOR:		Yes Yes	Yes Yes			Yes		Yes		Yes		Yes		Yes					
	PVC INSULATION: OUTER JACKET:	thickness, 1.8mm diameter.	Yes	Yes	-		Yes		Yes		Yes		Yes		Yes					
	IMPEDANCE: DC RESISTANCE:	40 to 100Ω.	Yes Yes	Yes Yes		1	Yes Yes		Yes		Yes Yes		Yes Yes		Yes Yes					
	MUTUAL CAPACITANCE CONDUCTOR-CONDUCTOR:	89pF/m (27pF/ft).	Yes	Yes	1		Yes Yes		Yes Yes		Yes		Yes Yes		Yes Yes		-			
	MUTUAL CAPACITANCE CONNECTED TO SHIELD:	161pF/m (49pF/ft).	Yes	Yes	<b>—</b>		Yes	<del>                                     </del>	Yes	1	Yes		Yes		Yes	-				
	TEMPERATURE:	-20° to 75°C (-4° to 167°F).	Yes	Yes	-		Yes	<del> </del>	Yes		Yes		Yes		Yes	-	-			
	UL: CSA:	CL-2. C(UL) FT4.	Yes Yes	Yes			Yes		Yes		Yes		Yes		Yes					
	ROHS:	In compliance with European directive 2002/95/IEC.	Netrack FM-12U 600x	Yes 1600 NT	6A*9A		Yes	RACK FM12u 600*600	Yes	TRACK FM12u 600*600	Yes	Michael Stern	Yes NETRACK I	FM12u 600*600	Yes NETRACI	K FM12u 600*600				
			No Mail Respons Technical Evalua enquiry		alified	In Diplays, Switchers and Usb Hubs shortage of Usb and Hdmi ports(Converters they are providing).It is found that there are few deviations from the specification in the tender document.However, it is found that these deviations are minor only. Overall, the bidder is found to be technically qualified.		o commercial not qualified		Qualified		Not Done- valified	Qu	alified	Q	ualified	Shortfal Docui	l of MAF metns	MAF Docui Se	

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				hnical Compliance Statement										
The bidder should be OEM or OEM authorized Dealers / Channel partners / Distributors of reputed brand having authorization for sales and after sales support. Valid OEM authorization letter is required to participate in this tender.	Yes		Yes		Yes		Yes	Yes		Yes	,	'es	Yes	Yes
The Bidder or its OEM (themselves or through reseller(s)) should have egularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for 3 years before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.	Yes		Yes		Yes		Yes	Yes		Yes	Y	es	Yes	Yes
Warranty: 3 Years warranty from the date of installation at our site.	Yes		Yes		Yes		Yes			Yes	Y	es		
Complying with Delivery period : 75 days (Yes / No)		-	Yes		Yes		Yes			Yes		es		
Technical Recommendations (Qualified / Not Qualified)	Not Qualified	No Mail Response For Technical Evaluation enquiry	Qualified		Not Qualified	Q	ualified	Not Qualified		Qualified		lified	Not Qualified	Not Qualified
If not qualified, please specify the detailed reasons for disqualification	No Mail Response For Technical Evaluation enquiry		Qualified		Techno commerical Not qualified			Site Visit Not Done- Disqualified					Shortfall o Docume	
I certified that the qualification criteria and technical specifications were not unduly restrictive														
				Evaluated by: (7. P	LAMESH - C	- ( - C7/5)	2005							

JUDENTER.