DAVID FITCH SERVICES

STAGE LIGHTING AND TECHNICAL THEATRE SUPPLIES

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LED LIGHTING

WHY LED LIGHTING IN THEATRE AND DRAMA ? AND IS IT THE WAY FORWARD ?

- LOW ENERGY CONSUMPTION, 70% SAVING OVER A GENERIC 650 WATT FITTING AND MORE LIGHT !
- NO HEAT. NO UV. (UNLESS IT'S BUILT IN, SO IT'S SAFE IN HISTORIC BUILDINGS)
- NO FILTER CHANGE. NO LAMP CHANGE.
- 50,000 HOURS LIFE EXPECTED, THAT IS 40 YEARS AT THEATRE USAGE (8 SHOWS PER WEEK, 3 HOURS PER SHOW, 52 WEEKS PER YEAR) APP THE SAME FOR SCHOOLS, 200 DAYS AT 6 HOURS PER DAY. A GENERIC FITTING COULD COST £ 2000 IN LAMPS AT TODAY'S PRICES FOR THE SAME TIME THAT IS PER FITTING! LEAVE IT ON 24/7 AND 50,000 HOURS IS 5.7 YEARS! SOLUTION? BIG SWITCH
- GOOD COLOUR RENDITION, PRIMARY COLOURS, RED, GREEN, BLUE. SOME WITH WHITE OR AMBER.
- WHITE ALLOWS PASTEL SHADES OF THE PRIMARY COLOURS AND AMBER GIVES A WARMER NOTE.
- FROM 1 CHANNEL OF DMX.....TO MANY MORE ! THAT IS WHY DESK SELECTION IS SO IMPORTANT.
- NO DIMMERS, AS THE DIMMERS ARE BUILT IN. DMX CONTROL ONLY. REQUIRES HARD POWER.
- FAN COOLED, SO THERE IS SOME FAN NOISE BUT IT IS SIMILAR TO A COMPUTER FAN, DO WE NOTICE THIS AFTER A FEW SECONDS ? IT IS JUST PART OF THE BACKGROUND NOISE.

WILL THEY REPLACE CONVENTIONAL FITTINGS ?

NO....WELL MAYBE....PROBABLY.... BUT NOT JUST YET..... I THINK. (THAT'S UNEQUIVOCAL THEN)
OH ! HANG ON, THEY'RE HERE NOW .....READ ON MACDUFF !

SO THE WAY I SEE IT, LED FITTINGS WILL HELP WHERE:

- THE POWER SUPPLY IS VERY LIMITED.
- HEAT IS AN ISSUE. ACCESS IS DIFFICULT, RISKY OR EXPENSIVE.
- MAXIMUM COLOUR IS REQUIRED.
- THEY WILL BE OF GREAT ADVANTAGE TO HAVE, WITH A MIXTURE OF CONVENTIONAL FITTINGS,

SOME DEFINITIONS OF LED TERMS.

- WARM WHITE APP 3200° K (SAME AS TUNGSTEN HALOGEN)
- COOL WHITE APP 6000° K + (NORTH POLE DAYLIGHT)
- TRI COLOURED - SINGLE CHIP WITH RED, GREEN AND BLUE PARTS .
- QUAD – RED, GREEN, BLUE AND WHITE (FOR PASTEL SHADES) RGBW OR AMBER RGBA (WARMER)
- QUIN – RED, GREEN, BLUE, WHITE AND AMBER. RGBWA
- HEX – 6 IN 1 RED, GREEN, BLUE, WHITE, AMBER AND UV. RGBWAUV - MOST USEFUL !
- LIME IS SOMETIMES PART OF THE LED "ENGINE" , GOOD FOR FACIAL CLARITY.
- COB - CHIP ON BOARD
- RDM – REMOTE DEVICE MANAGEMENT. THE DESK CAN TALK TO THE FITTING SETUP, SAVES TIME.

WE COMPARE THE "COST TO VALUE" RATIO BEFORE RECOMMENDING EQUIPMENT. YOU WILL NEED A GOOD DMX DESK BUT THE PRICES ARE I BELIEVE REASONABLE. PEOPLE'S EXPECTATIONS HAVE MOVED ON FROM EVEN JUST A FEW YEARS AGO (MAKE THAT MONTHS) AND SO HAS TECHNOLOGY. THE FOLLOWING PAGES GIVE OUTLINE SPECIFICATIONS FOR THE FITTINGS, PLEASE ASK FOR A FREE SITE VISIT TO ADVISE.

WITH ALL FITTINGS, PLUG IN TO MAINS AND SET THE DMX ADDRESS, THEN PLUG THE DMX LINE IN.

ALL OUR PRODUCTS ARE SOLD READY TO WORK. PRICES EXCLUDE DELIVERY.

ALL DETAILS CORRECT AT TIME OF GOING TO PRESS BUT MAY BE REVISED AT ANY TIME !

CONVENTIONAL COMPARED TO LED

PRICES TAKEN @ NOVEMBER 2024

FOR PRICE COMPARISON HERE ARE A FEW CONVENTIONAL LANTERNS THAT WE RECOMMEND:-
SOURCE FOUR JUNIOR ZOOM £ 475.00 TEMPO FRESNEL £ 295.00 SOURCE FOUR FRESNEL £ 581.00
SOURCE FOUR 19°, 26°, 36°, 50° £ 495.00 AND SOURCE FOUR ZOOM WITH 750 WATT HPL £ 740.00

COLOUR WASH

FITTINGS	COST EACH	POWER	COST KIT
3 LDR TEMPO FRESNELS 3 X 1 COLOUR EACH	£ 295	650 X 3 = 1950 W	£ 885
1 SOURCE 4 PAR & SCROLLER 16 FRAMES BASED ON 4 DISCONTINUED	£ 600	1 X 575 =575 W	£ 600
3 PARCANS 3 X 1 COLOUR MAYBE NO LONGER MADE SOON	£120	3 X 1 KW= 3 KW	£ 360
1 PERFORMER 18 PAR 18 X 12 WATT HEX (6 COLOURS) LED	£ 250	250 WATTS	£ 250

CYCLORAMA

ASSUME AN 8 M WIDE CYCLORAMA FOR A 3 COLOUR WASH. ALSO ADD THE DIMMING FOR THE CONVENTIONAL AND IT IS FAR MORE EXPENSIVE. THE VALUES SHOWN BELOW ARE SUBJECTIVE BUT GIVE AN INDICATION OF THE USEFULNESS OF EACH. APP BRIGHTNESS COMPARED TO OUR STANDARD FITTING, THE STARLETTE WITH 1250 WATT LAMP.

FITTINGS	COST EACH	POWER	APPROX COST	TO CYC IN M	APP BRIGHTNES
7 PIXEL STORM 12 BATTENS QUAD	£ 450	2 KW	£ 4050	.5	2.5
9 STARLETTE FLOODS 1250 WATT DISCONTINUED	£ 385 LAST PRICE	11.25 KW	£ 3465	2	1
12 RIMA CYC FLOOD 400 WATT	£ 155	6 KW	£ 1860	1.5	.5

IN AN UNSCIENTIFIC SHOOT OUT WE FOUND THAT WITH THE LED BATTENS @ .5M FROM THE CYC, THEY WERE APPROXIMATELY TWICE THE BRIGHTNESS OF STARLETTES @ 2M FROM THE CYC. USING STARLETTES AT 11.25 KW OR 47.25 AMPS AND WOULD TAKE MOST OF THE POWER SUPPLY FOR THE STAGE. THE LED BATTENS TAKE APP 2 KW OR 8 AMPS !

SO, 47 AMPS OR 8 AMPS ? ...AND TWICE AS MUCH LIGHT, MORE COLOUR AND FAR LESS POWER ?

LET ME THINK ABOUT IT.... A "NO BRAINER"

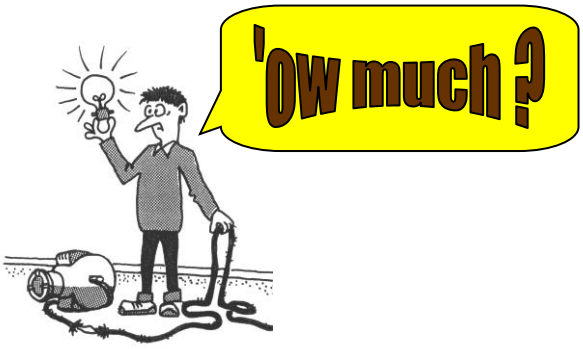
BEAM ANGLE MULTIPLIER

DISTANCE LIGHT TO STAGE

BEAM ANGLE	MULTIPLIER	3M	4M	5M	6M	7M	8M	9M	10M
5°	.09	.27	.36	.45	.54	.63	.72	.81	,9
10°	.17	.51	.68	.85	1.02	1.19	1.36	1.53	1.7
15°	.3	.9	1.2	1.5	1.8	2.1	2.4	2.7	3
19°	.35	1.05	1.4	1.75	2.1	2.45	2.8	3.15	3.5
25°	.5	1.5	2	2.5	3	3.5	4	4.5	5
30°	.6	1.8	2.4	3	3.6	4.2	4.8	5.4	6
40°	.73	2.19	2.92	3.65	4.38	5.11	5.84	6.57	7.3
50°	.95	2.85	3.8	4.75	5.7	6.65	7.6	8.55	9.5
60°	1	3	4	5	6	7	8	9	10
70°	1.4	4.2	5.6	7	8.4	9.8	11.2	12.6	14
80°	1.64	4.92	6.56	8.3	9.84	11.48	13.12	14.76	16.4
90°	1.88	5.64	7.52	9.4	11.28	13.16	15.04	15.92	18.8
100°	1.9	5.7	7.6	9.5	11.4	13.3	15.2	17.1	19
120°	2	6	8	10	12	14	16	18	20

DIAMETER IN METRES

PROFILE SPOTS SHOWN IN RED ARE UNLIKELY TO FOCUS WELL AT THAT RANGE.
ITEMS MARKED IN GREEN WORK BUT WILL BE INEFFECTUAL AT THAT RANGE
(THE INVERSE SQUARE LAW, " 0" LEVEL PHYSICS COMING UP.....JUBILATE !)
MOST LED AND CONVENTIONAL FRESNELS WILL REACH 50° PATT 743 WILL REACH 70°



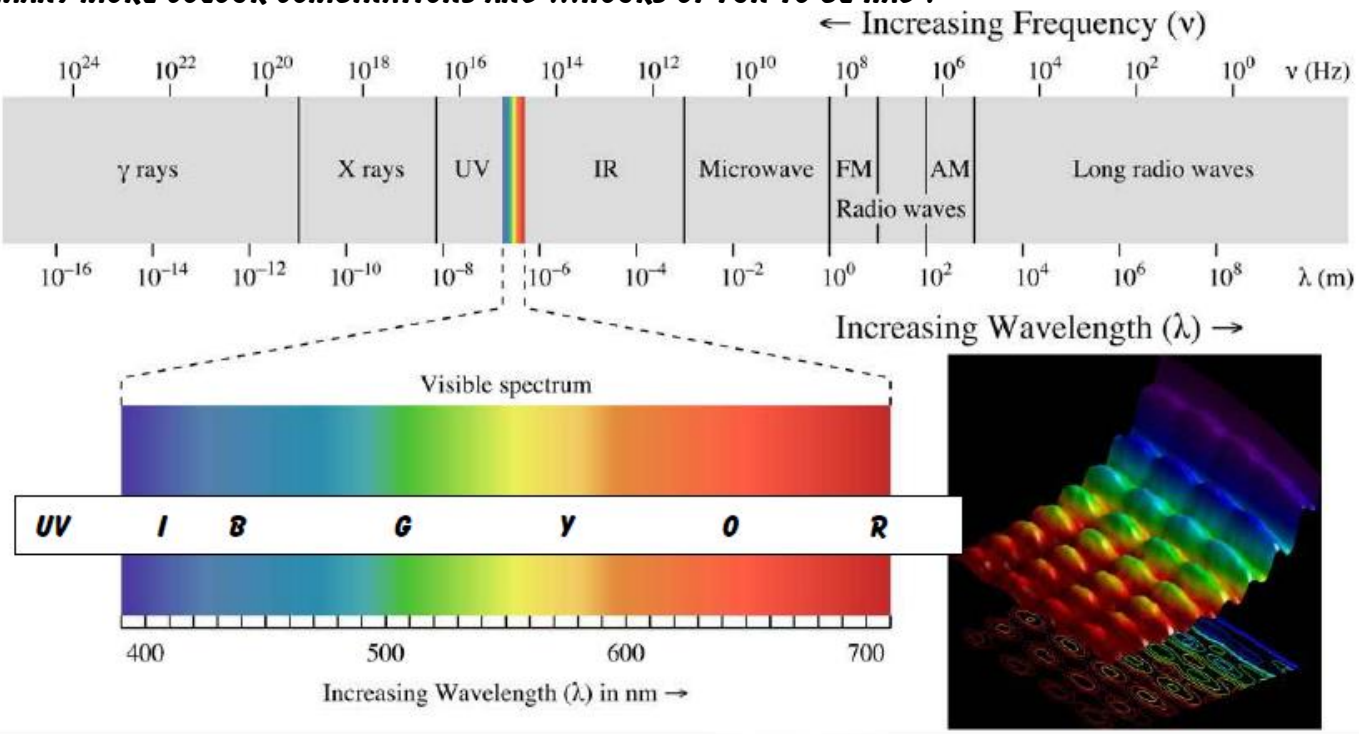
CONVENTIONAL LANTERN	1974	WITH INFLATION TODAY ...APPROX	LED EQUIVALENT
JUST ONE COLOUR !			
PATT 23	£ 38	£ 463	VIRTUOSO 600 £ 800
			BUT 4 TIMES AS BRIGHT AND MORE !
SOURCE 4 JR Z	TODAY	£ 475	GREAT BUT JUST ONE COLOUR !
			VIRTUOSO 600 £ 800
PATT 264	£ 72	£ 878	VIRTUOSO 1000 £ 1250
SOURCE 4 50°	TODAY	£ 721	GREAT BUT JUST ONE COLOUR !
			VIRTUOSO 1000 £ 1250
PATT 123	£ 44	£ 536	MP 75 FRESNEL £ 280
PATT 743	£ 62	£ 756	MP 180 FRESNEL £ 700
SOURCE 4 FRESNEL 750 W	TODAY	£ 691	GREAT BUT JUST ONE COLOUR !
			MP 180 FRESNEL £ 700
PATT 137	£ 20	£ 244	PERFORMER 200 £ 200
PATT 60	£ 33	£ 402	PERFORMER HEX £ 250
S 63 BATTEN	£ 70	£ 854	PIXEL STORM 12 QUAD £ 450
3 COLOUR WASH			
CODA 4 1993	£ 352	£ 735	PIXEL STORM 12 QUAD £ 450
4 COLOUR WASH			
PATT 765	£ 500	£ 6100	ROXIE 300 £ 4730

PLEASE SEE OUR OLD LANTERNS CARD FOR PICTURES.

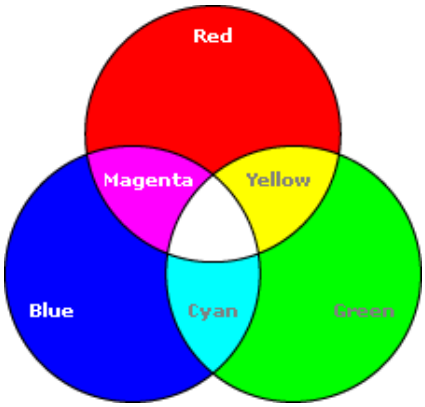
CHILD PROTECTION ISSUES ? NO, IT'S ME MAKING MY DEBUT IN 1957.

THE SCIENCE BIT

SIR ISAAC NEWTON DISCOVERED THAT WHITE LIGHT IS MADE UP OF THE SPECTRUM AND WE KNOW THAT BY FILTERING OUT CERTAIN WAVELENGTHS WE CAN GIVE THE COLOURS WE KNOW IN THEATRE.
IT IS OFTEN SAID RED GREEN BLUE COLOUR MIXING WILL GIVE YOU ALL THE COLOURS YOU NEED (WHICH IT DOES) BUT IF YOU GO BACK TO THE "OLDEN DAYS" WHEN I STARTED LIGHTING (1962) AND BEFORE ME, IT NEARLY ALWAYS HAD AMBER IN THE LIGHTING RIG AS WELL, AMBER COVERED THE YELLOW AND ORANGE PART OF THE SPECTRUM WHICH IS MISSING FROM THE JUST THE RED, GREEN AND BLUE, AS YOU GET IN CHEAP LED FIXTURES TODAY. THIS IS WHY WE LIKE THE PERFORMER HEX AS IT HAS R, G, B, W, A AND UV GIVING A VERY VERSATILE FITTING AND IT'S VERY BRIGHT ! WHY UV ? INSTANT UV SCENE OR IT WILL PICK UP STAGE MARKS FOR CHANGING THE SET IN A BLACKOUT (USE REFLECTIVE TAPE). YOU CAN ALSO MIX RED AND UV FOR MAGENTA, SO THE PANTOMIME VILLAIN IS EASY. UV AND AMBER GIVE A VERY FUNNY PINK. AMBER HELPS WITH FACIAL FEATURES AND YOU GET BETTER YELLOWS, STRAWS ETC THERE ARE MANY MORE COLOUR COMBINATIONS AND ...HOURS OF FUN TO BE HAD !



AN EXAMPLE OF HOW A COLOUR PICKER MIGHT LOOK



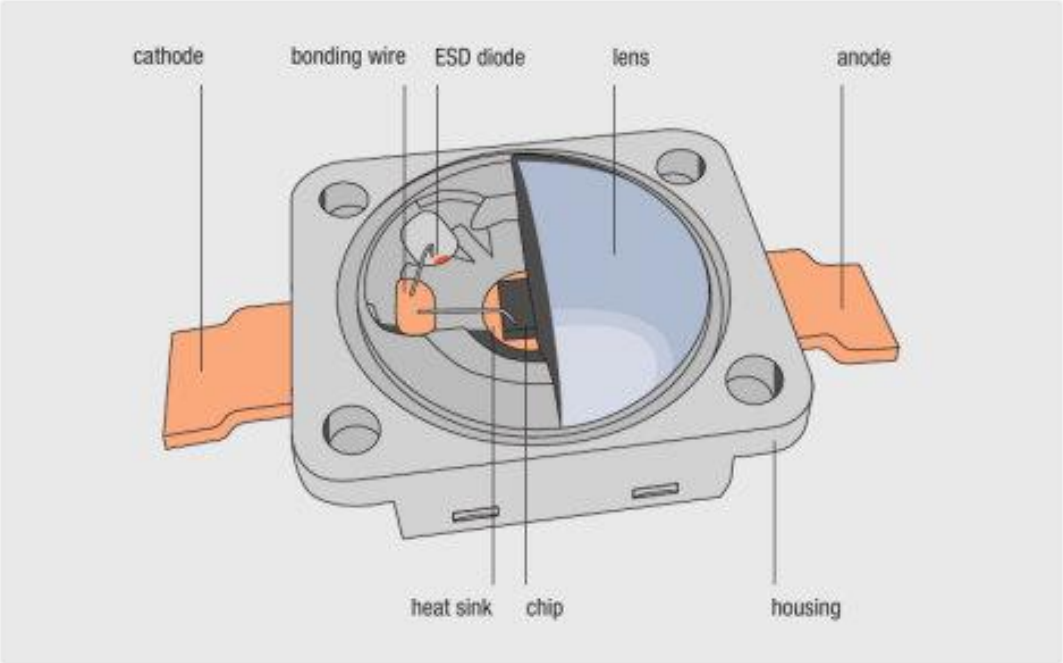
CONVENTIONAL RGB COLOUR MIXING

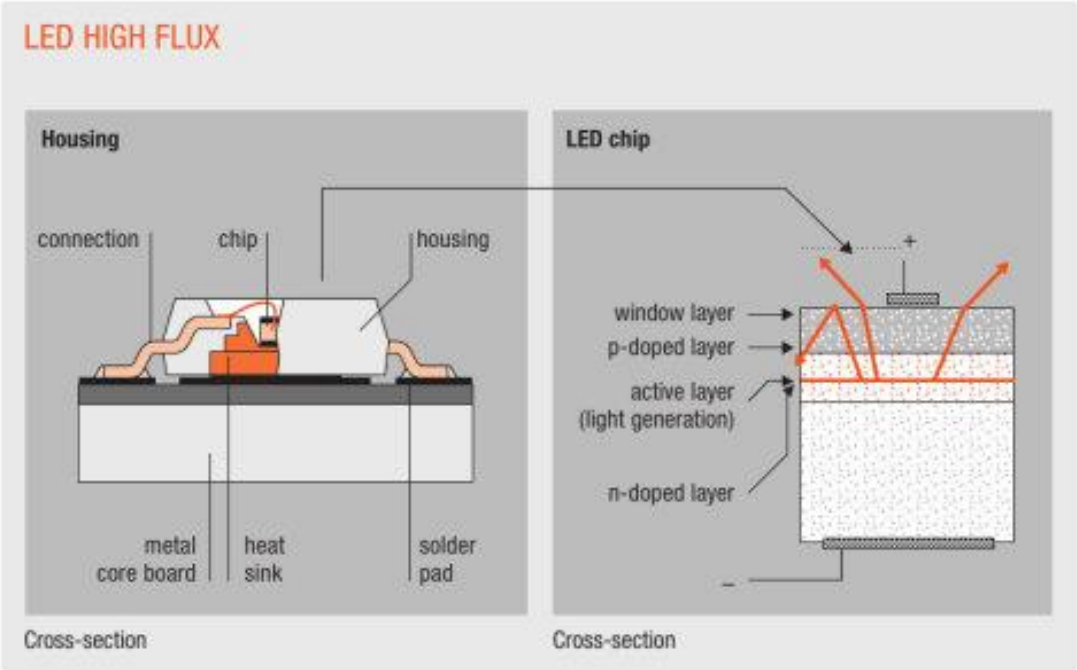
LED CAN SOMETIMES BE A HIGHER COLOUR TEMPERATURE AND NOT GIVE QUITE THE SAME COLOUR AS CONVENTIONAL TUNGSTEN LIGHT. OTHER COLOURS SUCH AS WHITE FOR PASTEL SHADES, LIME FOR FACIAL CLARITY AND AMBER FOR WARMTH COME IN VERY HANDY. IN "THE OLDEN DAYS" WE USED RED, GREEN, BLUE AND AMBER COLOUR MIXING, SO, NOTHING HAS CHANGED..... JUST BETTER KIT.

SO HOW DOES AN LED WORK

A LIGHT-EMITTING DIODE (LED) IS A TWO-LEAD SEMICONDUCTOR LIGHT SOURCE. IT IS A P–N JUNCTION DIODE THAT EMITS LIGHT WHEN ACTIVATED. WHEN A SUITABLE CURRENT IS APPLIED TO THE LEADS, ELECTRONS ARE ABLE TO RECOMBINE WITH ELECTRON HOLES WITHIN THE DEVICE, RELEASING ENERGY IN THE FORM OF PHOTONS I.E. LIGHT.

A PHOTON CHECKS IN TO A HOTEL. THE RECEPTIONIST SAYS "CAN I TAKE YOUR BAG SIR?" AND THE PHOTON REPLIES " NO THANKS, I'M JUST TRAVELLING LIGHT" !





THE CHIPS HAVE SECTIONS FOR EACH OF THE COLOURS AND BY ADJUSTING THE AMOUNT OF EACH COLOUR USED GIVE THE FINAL MIXED COLOUR. THE COLOUR OF LIGHT IS DETERMIND BY THE GAS USED IN THE LED. MORE OFTEN THAN NOT A MODERN LIGHTING DESK HAS A COLOUR PICKER ON A TOUCH SCREEN AND ONCE YOU HAVE TOLD THE DESK WHICH FITTING YOU ARE USING(RDM REMOTE DEVICE MANAGEMENT) IT WILL MIX THE COLOURS TO GIVE YOU THE SHADE YOU REQUIRE. THE FLX S24 DESK ALSO HAS MOOD BOARDS AND BY THE SAME TOUCH SCREEN YOU CAN TOUCH SAY "LEE 161, SLATE BLUE" AND THE DESK TAKES THE FITTING TO THAT COLOUR. MAKES PROGRAMMING MUCH FASTER.

SO MOST OF THE COLOURS THAT YOU USE IN YOUR CONVENTIONAL LIGHTING PALLET CAN BE CALLED UP AT .....THE TOUCH OF A SCREEN !..... OH, AND YOU CAN MAKE YOUR OWN COLOURS.

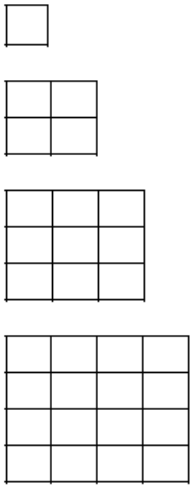
THE INVERSE SQUARE LAW

THERE WAS A CAFÉ OWNER WHO WAS FED UP WITH BUTTERING TOAST. ONE DAY HE DECIDED TO BUY A BUTTER GUN AND SPRAY ON THE BUTTER. IT WAS VERY SUCCESSFUL AND HE FOUND THAT AT A DISTANCE OF ONE FOOT HE COULD SPRAY ONE PIECE OF TOAST. AFTER A DAY OR SO HE WAS BORED AGAIN AND THOUGHT "IF I PUT THE TOAST TWO FEET AWAY I CAN SPRAY FOUR PIECES OF TOAST AT THE SAME TIME". THE CUSTOMERS DIDN'T NOTICE ANYTHING AND THE FOLLOWING DAY HE SET THE TOAST FOUR FEET AWAY AND FOUND HE COULD SPRAY 16 PIECES OF TOAST AT ONCE. HOWEVER USING THE SAME AMOUNT OF BUTTER, THE BUTTER WAS NOW ONLY 1/16 OF THE THICKNESS OF THE FIRST PIECE, AND NOW THE CUSTOMERS WERE COMPLAINING.

.....WHAT'S THIS GOT TO DO WITH LIGHT?

IF YOU THINK OF LIGHT AS BUTTER THE FURTHER YOU PROJECT THE LIGHT THE LESS 'ILLUMINATION' WILL FALL ON THE AREA. IN FACT IT WILL BE INVERSELY PROPORTIONAL TO THE DISTANCE, I.E.:

AT	1 FOOT	= 1
	2 FEET	= 1/4
	3 FEET	= 1/9
	4 FEET	= 1/16
	10 FEET	= 1/100
	20 FEET	= 1/400
	40 FEET	= 1/1600



O.K. SO WHO PUT REAL GIN IN THE PROPS?

WORKED HERE IN IMPERIAL MEASUREMENTS AS IT IS EASIER. THIS GIVES FOOT CANDLES.

IN ESSENCE PUT THE LANTERN TOO FAR AWAY FROM THE STAGE AND IT WILL BE TOO DIM !

HOW MANY FITTINGS?

AGAIN THIS WILL BE OPEN TO INTERPRETATION AND BUDGET. FOR CYC BATTENS A FULL SET BUTTED CLOSELY TOGETHER AS THE BEAM SPREAD IS NARROW SO TO AVOID GAPS WE CANNOT USE AS CONVENTIONAL FLOODS WITH GAPS BETWEEN. SOME OF OUR CUSTOMERS STILL HAVE S63 OR S64 BATTENS WITH MANY 150 WATT LAMPS. THE LAMPS ARE NO LONGER MADE AND WHILST I AM ASSURED THERE ARE SOME "AVAILABLE ON THE INTERNET" THEY ARE NEW "OLD" STOCK AND WHEN THESE RUN OUT THAT IS IT, NO MORE! IT'S AN EU DIRECTIVE LOVE'EM OR LOATHE'EM THAT'S THE SITUATION.

WE HAVE FOUND THAT 6 LED PARCANS WILL COMPETE WITH 12 SOURCE FOUR JUNIOR ZOOMS (OUR PREFERRED FITTING) LIKEWISE THE SAME PROPORTIONS APPLY TO FRESNELS ON STAGE. IF YOUR SHOWS ARE DANCE ORIENTATED YOU WILL NEED MORE LED FIXTURES FOR FULL EFFECT. ANOTHER ADVANTAGE WITH LED'S ON BOOMS IS NO HEAT SO NO ONE WILL BURN THEMSELVES ON THE FITTINGS.

THE NUMBER OF CHANNELS OF CONTROL NEEDS TO BE TAKEN INTO ACCOUNT SO DESK SELECTION IS MOST IMPORTANT. IN OLDER INSTALLATIONS THE DESK WAS LIMITED TO THE NUMBER OF DIMMER CHANNELS AND NO SPARE CAPACITY, WITH LED'S WE HAVE TO ALLOW FOR EXPANSION.

EACH JOB IS INDIVIDUAL SO WE WOULD BE PLEASED TO VISIT TO ADVISE, FREE OF CHARGE.

DMX CONTROL

DMX 512 IS A DIGITAL CONTROL SIGNAL USED TO CONTROL DIMMERS, LED'S, MOVING LIGHTS, SMOKE MACHINES, SCROLLERS ETC IT WILL CONTROL UP TO 512 ITEMS PER UNIVERSE. THE BEAUTY OF DMX 512 IS THAT IT IS UNIVERSAL, SO, ANY DMX 512 DESK WILL CONTROL ANY DMX 512 ITEM.

LED'S WILL TAKE 1 CHANNEL OF CONTROL FOR EACH COLOUR I.E. RED, GREEN, BLUE AND WHITE SO 4 CHANNELS REQUIRED. THESE CAN ALSO HAVE 5 CHANNEL MODE FOR MASTER ON THE COLOURS OR 6 FOR STROBE AND 7 IF USED IN STAND ALONE MODE.

WITH ITEMS SUCH AS A SCROLLER WHERE YOU HAVE SOME 16 FRAMES OF COLOUR THE SLIDER ON THE DESK IS NOT A BRIGHTNESS, BUT A POSITION ALONG THE SCROLL. WITH INTELLIGENT OR MOVING LIGHTS THE SLIDER IS USED FOR AN ATTRIBUTE SUCH AS PAN , WHERE 0= FULL LEFT, 10= FULL RIGHT AND 5= THE MIDDLE. THEATRE EFFECTS USE 5 PIN XLR CONNECTERS, SOME LIGHTS USES 3 PIN XLR. BE CAREFUL NOT TO PUT A SOUND LEAD INTO THE 3 PIN PORT! 3-5 AND 5-3 ADAPTERS ARE AVAILABLE.

THE CABLE IS A 2 CORE CABLE WITH SCREEN SIMILAR TO A MICROPHONE CABLE BUT NORMALLY IN RED.
PIN 1 SCREEN,PIN 2 COLD AND PIN 3 HOT (ON 5POLE XLR PINS 4+5 NOT USED)
ON A DMX ITEM THERE MAY BE A SET OF SWITCHES AND NUMBERED THUS

SWITCH	1	2	3	4	5	6	7	8	9	10
CHANNEL	1	2	4	8	16	32	64	128	256	SPECIAL

THIS MEANS BY USING SEVERAL SWITCHES THE ITEM IS ADDRESSED AS THE START ADDRESS. SAY, CHANNEL 31, IS 16+8+4+2+1 = 31
CHANNEL 35, IS 32+2+1 = 35 CHANNEL 75, IS 64+8+2+1 = 75

ON SOME FITTINGS THERE WILL BE A 4 PUSH BUTTON MENU SYSTEM MODE, ENTER, UP AND DOWN.

IF A DMX CABLE IS "CHOPPED" YOU WILL LOSE EVERYTHING BUT IT IS OFTEN EASIER TO SPOT, AS YOU ARE LOOKING FOR JUST ONE FAULT.

DMX SPLITTERS

THESE SPLIT THE DMX INTO 2 OR 4 STRINGS AND ISOLATE THEM TO STOP STRAY SIGNALS CAUSING A "WOBBLE" IN THE DMX.

DMX TERMINATORS

PLACE A TERMINATOR AT THE END OF A LINE TO STOP "GHOSTING", UNWANTED SIGNALS CAUSING INTERFERENCE. EXITING PICTURE ISN'T IT.

SWITCHING ON: DIMMER RACKS THEN ANY DEMUX OR SPLITTER, LEDS THEN THE DESK.
SWITCHING OFF: THE DESK, THEN ANY LEDS, DEMUX OR SPLITTER THEN THE RACKS.
IF YOU GET THIS WRONG, THE SYSTEM WILL REMEMBER THE LAST CUE .
TO CURE IT, ALL SLIDERS TO FULL AND DOWN AGAIN.

ALL OUR LED LANTERNS ARE SUPPLIED WITH HOOK CLAMP, PLUG AND SAFETY BOND.

MOST MODERN LED FITTINGS HAVE A 4 BUTTON SYSTEM.....MODE, UP, DOWN AND ENTER.
PLEASE REFER TO THE INSTRUCTIONS OF YOUR FITTING.

THE ADVANTAGES AND DISADVANTAGES OF LED

NO ONE EXPECTED THE EXPLOSION IN LED LIGHTING (TO MIS-QUOTE MONTY PYTHON)

WELL YES WE DID ACTUALLY ! BUT IT WAS THE SPEED OF DEVELOPMENT THAT CAUGHT EVERYONE OUT. SOME 9 OR 10 YEARS AGO THERE WERE HIGH END LED PRODUCTS. THESE WERE STUNNING AND SO WAS THE PRICE. IT MEANT THAT ONLY THE HIGH END OF THE MARKET COULD AFFORD THEM, I SAW PRICES OF £ 2600 FOR A PARCAN TYPE FITTING. THEY WERE BRILLIANT BUT JUST TOOOOOOOOO EXPENSIVE. WE WAITED FOR THE PRICE TO COME DOWN.

MULTI SOURCE 10MM LED THE FIRST GENERATION (NOT VERY GOOD..... ER CHEAP RUBBISH)

THE PROBLEM WITH THESE ARE, THEY ARE NORMALLY A NARROW ANGLE TO MAKE THEM BRIGHT ENOUGH. OFTEN, IT IS ABOUT 15° SO MANY MORE FITTINGS ARE NEEDED. THEY ALSO PRODUCE 3 OR 4 DISTINCT SETS OF LIGHT AND SO THE BEAMS PRODUCE SHADOWS IN THE COLOURS AND THE BEAMS DON'T MERGE. THE LOW POWER MEANS THAT IT CANNOT COMPETE WITH THE LARGER MULTI SOURCE FITTINGS WE SUPPLY. IN WHICH EACH LENS CONTAINS THE FOUR OR SIX ELEMENTS SO EACH PRODUCES A BETTER BLEND OF COLOURS. THE MULTISOURCE HAVE 168 NO .25 WATT LEDS IS 42 WATTS @ 15°. OUR 18 X 12 WATT HEX LED IS 216 WATTS @ 40° AND ABOUT 4 TIMES AS BRIGHT AND MUCH BETTER MIXING, MORE COLOURS AND COVERAGE.

BEAM SHAPING

BARNDOORS ON MULTISOURCE LEDS DON'T WORK ! IT IS MORE OFTEN FOR 'SHOW'. ALSO SILVER BARNDOORS AS SOME HAVE, RATHER DEFEATS THE OBJECT (TO CUT THE BEAM OFF) AS THEY REFLECT THE LIGHT ALL OVER THE PLACE. WITH OUR FITTINGS THE BEAMS ARE OFTEN FIXED ANGLE AT AROUND 40°. THIS SEEMS TO ME TO WORK WELL. THE WIDER THE BEAM THE LESS LIGHT PER SQUARE METRE (SEE THE SECTION, INVERSE SQUARE LAW) THE ZOOM FITTINGS COVER THIS AREA BUT OBVIOUSLY REQUIRE MORE CHANNELS OF CONTROL, OR YOU LOOSE THE AMBER AND UV. IF YOU HAVE A COB FITTING (SINGLE SOURCE LED) BARNDOORS WILL WORK.

THERE ARE NOW PROFILE SPOTS WITH ALL THE CONVENTIONAL ATTRIBUTES BUT WITH RGBAL LEDS, TAKING 1 TO MANY CHANNELS OF CONTROL EACH. THESE ARE BEING DEVELOPED AT THE MOMENT AND I HAVE NOW SEEN FRESNELS READY FOR MARKET IN 2019 ALL WITHIN THE SPACE OF A FEW MONTHS SINCE THE OUTLINE SKETCH. THAT'S HOW FAST THE MARKET IS MOVING ! .....OH, HANG ON, THEY ARE HERE NOW. SEE MP 180 AND MP 75.

PHILIPS, THE LAMP MANUFACTURER (AND MANY OTHER THINGS TOO) OWN THE INTELLECTUAL RIGHTS FOR LED RGBW ETC SO THEY WILL TAKE THEIR COMMISSION FROM A MANUFACTURER USING THE TECHNOLOGY BUT IF THESE ARE A "CHEAP CHINESE COPY" WHICH YOU HAVE BOUGHT, THEY MAY THEN EXPECT YOU TO PAY AS A PERCENTAGE OF THE FINAL PRICE. WE HAVE VERY CAREFULLY CHECKED WITH OUR MANUFACTURERS, THAT THIS HAS BEEN PAID BY THEM, SO ALL IS CLEAR AND ABOVE BOARD.

COLOUR TEMPERATURE

IF YOU HEATED A BLOCK OF BLACK IRON TO SAY 3200°K IT WOULD GIVE THE COLOUR OF TUNGSTEN HALOGEN LIGHT WHICH WE ARE USED TO. SOME LEDS ARE 6000°K AND THIS WOULD APPEAR FAR WHITER AS THE SUNLIGHT WOULD BE AT THE NORTH POLE. IT HAS DIFFERENT PROPERTIES AND AFFECTS COLOURS IN DIFFERENT WAYS. EVEN MORE "O" LEVEL PHYSICS FUN....SHOWING MY AGE !

"I'VE FOUND IT CHEAPER ON THE NET"

NO, YOU FOUND SOMETHING CHEAPER ON THE NET ! WILL THEY KNOW HOW TO USE IT AND DO THEY KNOW WHY THEY ARE SELLING "STUFF". MOST "DISCO" SUPPLIERS DON'T KNOW THEATRE.... WE DO.

WE SELL ONLY GOOD VALUE FOR MONEY PRODUCTS THAT WE HAVE IN OUR HIRE STOCK (OR WILL HAVE AS THE SITUATION ARISES) THERE ARE "CHEAP" PRODUCTS ON THE MARKET BUT WE WOULD MAKE THE FOLLOWING POINTS:

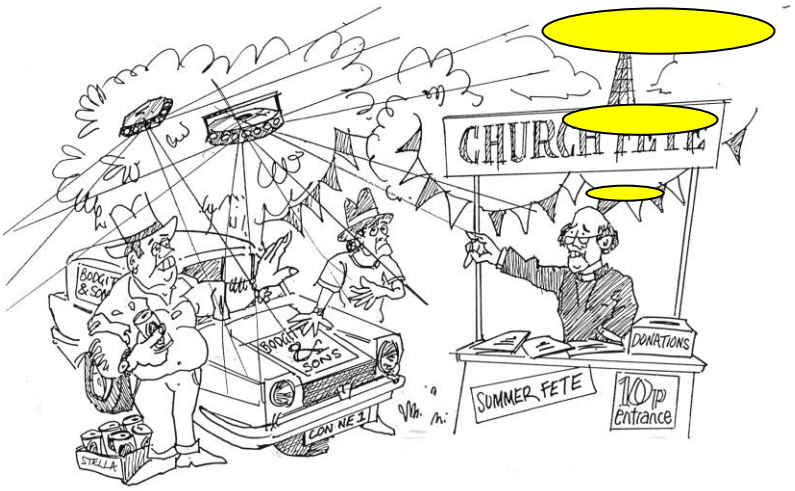
- CHEAP IS OFTEN FOLLOWED BY NASTY !
- CHEAP AND CHEERFUL ....USUALY MEANS CHEAP AND MISERABLE !
- BUY CHEAP, BUY TWICE !
- NOT ALL LED'S ARE CREATED EQUAL !

WILL PRICES COME DOWN EVEN MORE ?

POSSIBLY, BUT NOT BY A LOT. SPECIFICATIONS MAY RISE TO MEET THE PRICE POINT, JUST AS IT HAS IN THE LAST FEW YEARS WITH COMPUTERS, MOBILE PHONES ETC. HAVING SAID THIS, WORLD TRADING CONDITIONS AND THE PRICE OF SHIPPING WILL PUSH PRICES UPWARDS, IT IS NOT PROFFITEERING !

SCEPTIC'S CORNER

I'M NOT SURE MR BODGITT IS FULLY COGNISANT OF DMX, RDM OR LED AND I'M NOT SURE HIS SON KNOWS FROM WHENCE THE LIGHT COMETH.....



"LED HASN'T GOT THERE YET" OH YES IT HAS ! AND IT COMES AT A REASONABLE PRICE. IT IS OUR JOB TO ADVISE YOU WHICH ARE THE BEST PRODUCTS FOR YOUR APPLICATION. ASK US WHAT WE HAVE IN HIRE STOCK OR WILL BE GETTING. WE ARE NOT GOING TO WASTE OUR MONEY, SO WHY SHOULD YOU ? MOST OF THE LED PRODUCTS ARE BETTER VALUE FOR MONEY THAN CONVENTIONALS IN THE PAST !

"LED PROFILES WITH OUT OF FOCUS GOBOS GIVE IMAGES OF THE ARRAY" YES, SORRY, IT'S TRUE... BUT WHAT DID SCOTTY SAY "I CANNAE CHANGE THE LAWS OF PHYSICS CAPTAIN" .....FOR YOUNGER READERS IT'S A STAR TREK ORIGINAL SERIES REFERENCE. READ ON FOR DAVID'S WIZARD WHEEZE....PAGE 48

"IT DOESN'T MATTER ABOUT THE ORDER OF DOING THINGS" OH YES IT DOES, SET THE DMX FIRST THEN RIG THE LANTERNS AND PLUG IN THE DMX CABLES. SWITCH ON THE MAINS FIRST THEN THE DESK ! SWITCH OFF IN REVERSE ORDER.

"TERMINATORS AREN'T NECESSARY" OH YES THEY ARE, AS THEY WILL STOP GHOSTING ON AN UN-TERMINATED LINE AND AT £6 EACH .....DON'T BE A CHEAPSKATE !

"I'LL WAIT FOR THE CHEAP CHINESE COPY" ALL OF THE FIXTURES WE SUPPLY ARE THE CHINESE REALLY GOOD VALUE FOR MONEY PRODUCTS AND THERE ARE NO "CHEAP" PROFILES OR FRESNELS, JUST CHEAP PARCANS....AND AS SUGGESTED EARLIER .... CHEAP = RUBBISH !

NOTES

- THE CIRCUIT POWERING THE LEDS AND MOVING LIGHTS MUST HAVE A "C TYPE" MINIATURE CIRCUIT BREAKER (MCB) THE STANDARD "B TYPE" WILL BURN OUT IN A FEW WEEKS AS IT IS NOT DESIGNED TO DEAL WITH THIS TYPE OF LOAD. IT IS QUITE A CHEAP ITEM AND ONLY TAKES A MINUTE OR TWO TO FIT BY AN ELECTRICIAN.
- LEDS AND MOVING LIGHTS MUST NOT BE PLUGGED INTO A DIMMER. THEY NEED HARD POWER.
- DMX CABLES ALWAYS GO PLUG TO THE DESK AND SOCKET TO THE FITTING JUST LIKE MAINS CABLES.
- SPLITTERS AND TERMINATORS ARE IMPORTANT AND ARE INEXPENSIVE.
- SET THE DMX ADDRESSES FIRST. THEN PLUG IN THE DMX CABLES. SOMETIMES, ITEMS CAN GET CONFUSED. YOU ONLY HAVE TO DO THIS ONCE UNLESS YOU MOVE THE FITTING AND WANT IT ON OTHER CHANNELS. THE DMX ADDRESS MEANS THE CHANNEL AT WHICH YOU WISH TO START THE FITTING. SAY YOU HAVE A 4 CHANNEL LED FITTING STARTING AT CHANNEL 25, THEN 25 WILL BE RED, 26 GREEN, 27 BLUE AND 28 WHITE THE NEXT FITTING WOULD START AT 29. WITH MOVING LIGHTS, THEY JUST TAKE MORE CHANNELS BUT THE PRINCIPLE IS THE SAME. NOW YOU KNOW WHY WE LEARNT OUR TIMES TABLES AT PRIMARY SCHOOL ! DO NOT DESPAIR, WITH DESKS SUCH AS THE ZERO88 FLXS24, THE DESK WORKS THIS OUT FOR YOU….. SO YOU DON'T NEED TO TAKE YOUR SHOES AND SOCKS OFF TO COUNT.
- DMX CABLE - DESK TO SPLITTER. SPLITTER LINE 1 TO DIMMER RACKS, PLUG IN TERMINATOR TO LAST RACK OR USE THE SWITCH ON THAT ONE…… IF THERE IS ONE.
- LINE 2 TO SAY FIRST SET OF MOVING LIGHTS AND TERMINATOR TO LAST ITEM.
- LINE 3 TO SET OF LEDS AND TERMINATOR IN THE LAST ON THE LINE.
- LINE 4 THE SAME AND SO ON.
- THIS WAY ANY 'WOBBLE' ON THE DMX ONLY AFFECTS ONE LINE AND WILL NOT MAKE EVERYTHING 'WOBBLE' (UNWANTED DISTURBANCE)
- SWITCHING OFF THE RACKS AND LEDS ETC. SOME PEOPLE THINK THAT SWITCHING OFF THE DESK, SHUTS THE SYSTEM DOWN. WELL IT DOESN'T ! IT WOULD BE LIKE PUTTING THE CAR IN NEUTRAL AND LOCKING IT UP IN THE GARAGE BUT KEEPING THE ENGINE RUNNING OVERNIGHT. IT JUST USES FUEL. LIKEWISE, LEAVING THE DIMMER RACKS AND LEDS "ON" BUT SWITCHING THE DESK OFF, JUST USES UP LAMP LIFE AND ELECTRICITY, ……..COSTING YOU MONEY ! WE NOW KNOW THAT DIMMER RACKS ON STANDBY CAN USE 25% OF THE FULL POWER. WITH A 60 AMP RIG, IT USES 17 AMPS TO DO NOTHING, ABOUT £ 5026 PER YEAR TO THE ELECTRICITY SUPPIERS…….. AND VAT OF £ 250 (5%) TO THE GOVERNMENT…FOR NOTHING !

ELECTRICITY IS NOT GOING DOWN !

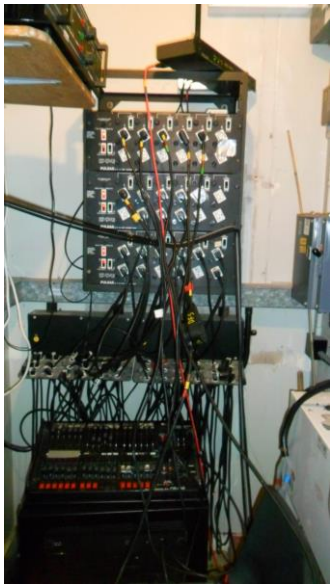
LEAVING IT ON, A SCREAMING WASTE OF YOUR MONEY !

SWITCH THE POWER OFF AT NIGHT, YOU KNOW IT MAKES SENSE !

- THE ORDER OF SWITCHING ON AND OFF IS IMPORTANT.
- SWITCHING ON - MAINS FIRST THEN FITTINGS, DEMUX AND FINALLY THE DESK.
- SWITCHING OFF, THE REVERSE ORDER.

LED POWER DISTRIBUTION IS SIMPLER AND CHEAPER. DIMMERS ARE NO LONGER REQUIRED AND A PATCH PANEL IS ALSO REDUNDANT OR CAN BE ADAPTED TO PROVIDE HOT POWER TO EACH SOCKET OUTLET

CONVENTIONAL POWER DISTRIBUTION



LEFT OUR 100 AMP SINGLE PHASE, 24 WAYS OF DIMMING. RIGHT, NOT ONE OF OURS !.....A" PIGGING" MESS IN A" POKEY" CUPBOARD.

LED POWER DISTRIBUTIONS

LEFT, HOLCOMBE GRAMMAR SCHOOL, 40 AMP SINGLE PHASE.
RIGHT, PADDINGTON ARTS CENTRE 28 AMPS INSTEAD OF 90 AMPS.

I THINK ELECTRICITY WILL NOT GO DOWN IN PRICE, FOR YEARS TO COME AND ANY DECREASE WILL BE WIPED OUT BY INFLATION.....

AS YOU CAN SEE FAR SIMPLER AND LESS EXPENSIVE THAN THE OLD CONVENTIONAL WAY..... MORE LIGHT, LESS POWER, LESS COST, NO HEAT, MORE COLOUR, NO LAMP CHANGE OR FILTER CHANGE, WHAT'S NOT TO LIKE ?

WHAT IS A MOVING LIGHT ? AND WHY ?

A MOVING LIGHT IS USED TO MOVE THE BEAM AROUND THE ROOM. TAKING THE FUSION 200, WITH COLOUR, GOBOS AND PRISM TO CREATE A 3 OVERLAPPING IMAGE SWIRLING EFFECT. A GOBO IS A CUT OUT METAL PLATE IN VARIOUS SHAPES, ALSO. IT IS POSSIBLE TO HAVE A CUSTOM GOBO MADE WITH THE SCHOOL LOGO OR A SHOW TITLE ETC. CUSTOM GOBOS ARE NOT THAT EXPENSIVE, PLEASE ASK FOR DETAILS. IT CAN BE USED AS A SPOT FOR SINGERS OR NARRATORS OR AS A MOVING EFFECT TO SUGGEST SAY WATER RIPPLING OR SUNLIGHT COMING THROUGH TREES SWAYING IN THE BREEZE. PRETTY PATTERNS AS A BACKING OR OF COURSE YOU COULD USE THEM FOR THE SCHOOL DISCO OR THE PTA DANCE. THERE ARE MOVING WASH LIGHTS AVAILABLE AS WELL FOR GENERAL LIGHTING WHEREVER YOU POINT IT FOR COLOUR AND ZOOM. WE OFTEN RECOMMEND THE FUSION 200 AS IT IS VERY BRIGHT FOR VERY LITTLE POWER CONSUMPTION AND CAN RUN ON 8 CHANNELS OF CONTROL.....MORE IMPORTANTLY IT IS VERY GOOD VALUE ....FOR YOUR MONEY ! WHEN WE SUPPLY MOVING LIGHTS, THEY COME ON LONG HOOK CLAMPS DROPPING THE HEAD BELOW OTHER LANTERNS ON A BUSY BAR. WE ALSO USE NYLOCK NUTS AS THE MOVEMENT WILL LOOSEN ORDINARY WING NUTS OVER TIME.

PLEASE SEE THE VIDEO CLIPS COMING SOON ON OUR WEBSITE !

EACH JOB IS DIFFERENT AND WE WOULD BE PLEASED TO VISIT TO DISCUSS THE POSSIBILTIES..... AND IT'S FREE !

A NOT SO QUIET 70TH BIRTHDAY PARTY AND PEOPLE WHO KNOW HOW TO ENJOY THEMSELVES !

DYMCHURCH PLAYERS NEW INSTALLATION OF LED LIGHTING BY US.

E.U. PROPOSED BAN ON TUNGSTEN.....LATEST NEWS...1ST SEPTEMBER 2023

It is now looking likely that most of the lamps we use will be safe for now. The ones at most risk of going are the R7 end caps so mostly K1 etc as some of these are used in domestic fittings. There is a move to reduce the wattage making them useless for stage lighting. Also E27 caps so all the 137's and S batten types HAVE GONE some people have "new old stock" but these have not been made for years and never will be again ! The dreadful old expression… *"THERE IS NO POINT IN FLOGGING A DEAD HORSE"* comes to mind.

The E.U. is looking to reduce power consumption and greenhouse gas emissions which is perfectly laudable for general use. Once the serious discussions had taken place it seems that common sense has prevailed and they now understand more of our industry. There now seems to be progress in the negotiations. Having seen the list of lamps going, don't panic there were some *I* had never even heard of. Some will disappear as on commercial grounds as not enough are made to justify production. The war in Ukraine is having an effect as some lamps cannot be made due to gas price hikes !
WE ARE SOURCING ALTERNATIVES….SOME COMING FROM MEXICO !! *THEY'RE HERE !*

There will be conspiracy theories such as:

- **The Chinese just want to sell more LED. Of course they do.**
- **Suppliers want to sell more LED. Of course we do. But, there are very good reasons to do so. Low energy consumption, masses of colour, no heat, no lamp replacement or filter change. This will save time and money and allow you to do far more with the LED equipment.**
- **Some suppliers want you to buy a whole new rig. NOT ENTIRLEY NECESSARY !**

We (David Fitch Services) have been saying for years that *adding* to your existing rig and you get the best of both worlds. It may mean a new lighting desk (BUT less dimming, saving money) and the prices are now very reasonable compared to a few years ago. The desks can do so much more. People's expectations have moved on and now it is practical. We are quoting and fitting new installations in schools, amateur groups and professional theatre etc with completely LED rigs, as with budgets so tight they need to seriously look at energy consumption. We (David Fitch Services) look at the venue and advise the best way forward and not try to sell you kit you do not need. Just what is best for YOUR application. Some others just want to sell you "stuff" without knowing why or what to do with it. Look for a baseball cap on backwards …..and walk away.

- **WAS THE BAN A "BOBBY EWING IN THE SHOWER MOMENT"**

…for younger readers, Google "Dallas" A 1980'S American television series, The shower episode stood the whole of that series on its head, as a "dream sequence". ……. ……..NO IT WASN'T (ISN'T)

- **Will the E.U. revisit this in a few years time ? Open to question……**
- ***"WE ARE OUTSIDE THE E.U. SO IT WON'T AFFECT US". WRONG*, where are most tungsten lamps made ? EUROPE ! Who else makes them ? America, Mexico, Japan, and a few others but they all come in on container ships to…Rotterdam which last time I looked was in the E.U. and if the transportation is banned as was planned…**

"I THINK I'DE BETTER THINK IT OUT AGAIN"

I am working on the principle that we will need to address the whole question and develop a better way forward than in the past. It is called progress and old dinosaurs like me have to think through and update our traditional ways of doing things but remembering basic principles. These have not changed, as "when I was a boy" we had red, green, blue and amber colour mixing and what are we using now ? ……..
…….Much the same but with better equipment !
More news as it becomes available….but check out www.savestage.lighting

David

NOW THAT WE HAVE THE NEW VERY LONG LIFE LEDS WE DON'T NEED TO DO ANYTHING, RIGHT ?

WELL, APART FROM THE LEGAL OBLIGATION TO HAVE THE LANTERNS INSPECTED, CLEANED AND MAINTAINED REGULARLY (WE SUGGEST ANUAL) AND WE STRONGLY RECOMMEND CLEANING THEM. DUST WILL BUILD UP AND EVENTUALLY BLOCK THE FANS, CAUSING THEM TO OVERHEAT AND EVENTUALLY .....FAIL..... PREMATURLY.

IT DOESN'T MATTER HOW CLEAN YOUR VENUE IS, THE DUST & DIRT GETS ALL THE WAY IN.

ASK YOURSELF "WAS IT DESIGNED WITH THE DUST INSIDE ?"

DO YOU HAVE YOUR CAR SERVICED AND MOT'D EACH YEAR ? THEN.....

AT A RECENT SITE VISIT WE FOUND THAT THE FIXTURES HAD BEEN LEFT ON 24/7/365 FOR 4 YEARS SINCE WE INSTALLED THEM. DUST AND DIRT CAUSED FAILURE OF THE FANS AND FIXTURE.....

IT CAUSED A BIG BILL AND ALL FOR LACK OF SIMPLE MAINTENANCE.

WE FOUND THE GREMLINS IN YOUR DESK....

PROFESSOR PAT PENDING, SERVICE DEPARTMENT.

VIRTUOSO 1000 ELUM 132

240 WATT PROFILE SPOT. RGBA AND LIME. WITH 6/7/8/11 OR 19 CHANNELS OF DMX ON 3 AND 5 POLE. POWERCON IN AND OUT. CHOICE OF LENS AS SOURCE FOUR WHICH ARE SO FAMILIAR TO US. 19°, 26°, 36°, 50° OR ZOOM VERSIONS, 15°- 30° OR 25°- 50°. IN WHITE MODE ADJUSTABLE COLOUR TEMPERATURE, 2700°- 8000°K ON WHITE. RDM. PERFECT DIMMING, NO DROP OFF ! 11-15 KG, DROP FROM BAR 800MM HOOK CLAMP AND SAFETY BOND INCLUDED.

NEW
VIRTUOSO 1000 HEX

NOW WITH 6 COLOURS R,G,B,A,L AND CYAN. THE COLOUR TEMPERATURE ON WHITE GOES FROM 1800°-10,000°K TR1 POWER IN & OUT ON 5 POLE DMX 3/5/7/8/10/ 13 OR 20

5 COLULR BODY ONLY £ 1046.00
6 COLOUR BODY ONLY £ 1150.00
FIXED LENS BARRELS £ 210.00
ZOOM LENS BARRELS £ 494.00

OUR PRICE ON 5 COLOUR FIXED LENS VERSIONS COMPLETE £ 1250.00
OUR PRICE ON 6 COLOUR FIXED LENS VERSIONS COMPLETE £ 1360.00

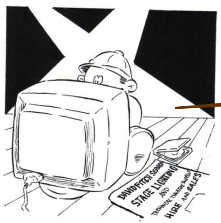
OUR PRICE ON 5 COLOUR ZOOM LENS VERSIONS COMPLETE £ 1540.00
OUR PRICE ON 6 COLOUR ZOOM LENS VERSIONS COMPLETE £ 1664.00

IRIS DIAPHRAGM £ 65.00

VIRTUOSO 600

150 WATT RGBAL
25°-50° MANUAL FOCUS
COLOUR TEMPERATURE 1800°-10,000°K ON WHITE (AS WITH ALL, YOU LOOSE THE USE OF COLOUR) SO CANDLE LIGHT TO POLAR DAYLIGHT.
3, 7,10,12, OR 18 CHANNELS OF DMX ON 5 POLE
48 PRESET COLOURS AVAILABLE.
6.5KG, DROP FROM BAR 600MM
ABOUT THE SAME SIZE AND OUTPUT AS A SOURCE FOUR JUNIOR ZOOM.
PERFECT DIMMING ....NO DROP OFF !

LIST PRICE £ 996... BUT *OUR PRICE* **£ 800.00**



NEAREST THING TO A SOURCE FOUR JUNIOR ZOOM ?

VIRTUOSO 2000 ELUM 135

220 WATT FRESNEL. RGBA AND LIME. WITH 8/10/13 OR 19 CHANNELS OF DMX ON 3 AND 5 POLE. POWERCON IN AND OUT. 15°- 45° . IN WHITE, AND ADJUSTABLE COLOUR TEMPERATURE , 2700°- 8000°K ON WHITE. BARNDOORS INCLUDED WITH ADDITIONAL SIDE INFILS ON THE SHORT SIDES TO CUT OUT GAPS (SOME MAY SAY FLAPPY BITS) MOTORISED ZOOM. RDM. 175MM LENS 8KG DROP FROM BAR650MM
PERFECT DIMMING, *NO DROP OFF !* HOOK CLAMP AND SAFETY BOND INCLUDED

LANTERN AND BARDOORS COMPLETE £ 900.00

MP 180 FRESNEL RGBALC ELUM 112

180 WATT RED, GREEN, BLUE, AMBER, LIME AND CYAN FRESNEL.
13°- 46° ZOOM MANUAL ADJUSTMENT.
BARNDOORS INCLUDED.
COLOUR TEMPERATURE ADJUSTMENT ON WHITE AND STROBE.
1/5/6 OR 16 CHANNELS OF DMX 3 AND 5 POLE IN AND OUT. 8 OR 16 BIT DIMMING.
POWERCON IN AND OUT. 17 KHZ REFRESH RATE, GOOD FOR FILM OR TELEVISION
APP THE SIZE OF A 1KW FRESNEL. 450mm x 300mm x 450mm 8.7KG 145MM LENS.
DROP FROM BAR 630MM
PERFECT DIMMING, NO DROP OFF ! HOOK CLAMP AND SAFETY BOND INCLUDED

OUR PRICE LANTERN AND BARNDOORS COMPLETE £ 700.00

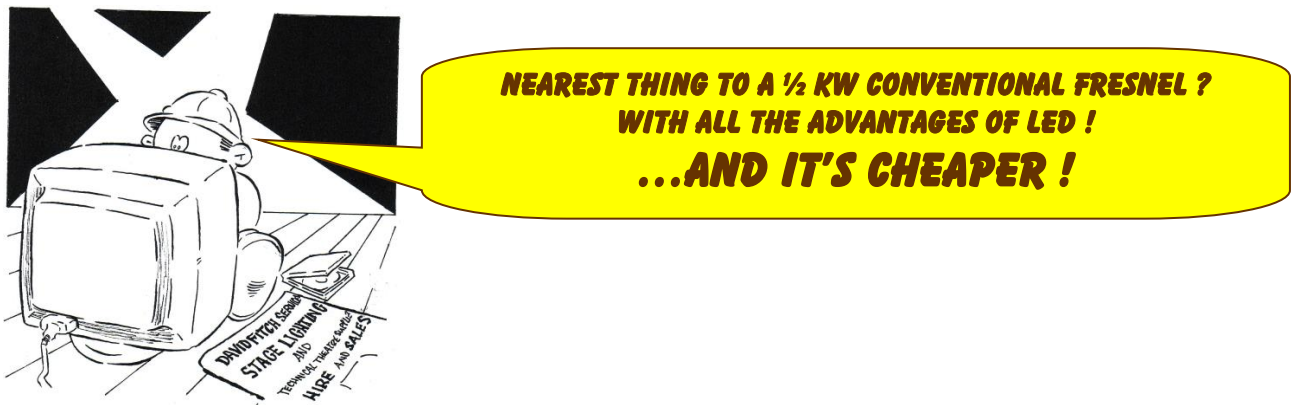
STAR PRODUCT

NEAREST THING TO A 1 KW FRESNEL ....WITH ALL THE ADVANTAGES OF LED ?

MP 75 FRESNEL RGBW ELUM 105

- 75 WATT RGBW QUAD CHIP ON BOARD LED
- 10°-50° MANUAL FOCUS
- CAPTIVE POWER CABLE
- 4,5 OR 7 CHANNELS OF 5 POLE DMX IN AND OUT
- HOOK CLAMP AND SAFETY BOND INCLUDED
- 365 X 260 X 250MM 4KG (APP THE SAME SIZE AND BRIGHTNESS AS A QUARTET)
- DROP FROM BAR 500MM
- PERFECT DIMMING NO DROP OFF !

OUR PRICE LANTERN AND BARNDOOR COMPLETE **£ 280.00**



PERFORMER 18 HEX LEDJ 252B

TWICE AS BRIGHT AS A 650W FRESNEL AND THE SAME AS A 1KW FRESNEL MATCHING COLOUR TEMPERATURES. BUT WHEN FULL ON.... MUCH BRIGHTER !

- 18 X 12 WATT QUAD LED (RGBWAUV)
- 40° 3KG DROP FROM BAR 400MM
- CAPTIVE POWER CABLE
- 6 / 10 CHANNELS DMX ON 3 POLE IN/OUT
- HOOK CLAMP AND BOND INCLUDED OR FLOOR MOUNT

£ 250.00

PERFORMER 18 ZOOM LEDJ252D

- 18 X 8 WATT QUAD LED (RGBW)
- 25°-75° ZOOM (GREAT FOR MONOLOGUES AND DUOLOGS)
- CAPTIVE POWER CABLE
- 6 / 8 CHANNELS DMX ON 3 POLE IN/OUT
- HOOK CLAMP AND BOND INCLUDED OR FLOOR MOUNT. 3KG DROP FROM BAR 400MM

£ 250.00

PERFORMER 18 QUIN LEDJ 252A

- 18 X 10 WATT QUAD LED (RGBWA)
- 40°
- CAPTIVE POWER CABLE
- 5/9 CHANNELS DMX ON 3 POLE IN/OUT
- HOOK CLAMP AND BOND INCLUDED OR FLOOR MOUNT 3KG. DROP FROM BAR 400MM

£ 225.00

PERFORMER 18 QUAD LEDJ252

- 18 X 8 WATT QUAD LED (RGBW)
- 40°
- CAPTIVE POWER CABLE
- 4/8 CHANNELS DMX ON 3 POLE IN/OUT
- HOOK CLAMP AND BOND INCLUDED OR FLOOR MOUNT 3KG, DROP FROM BAR 400MM

£ 200.00

PERFORMER 200 COB RGBW LEDJ 490

- 200 WATT COB RGBW
- 120° (WIDE 2M SPREAD FOR 1M THROW)
- 17 KHZ REFRESH RATE (GOOD FOR TELEVISION)
- POWERCON IN/OUT
- 4 OR 8 CHANNEL OF 3 POLE DMX.
- WITH HOOK CLAMP AND SAFETY BOND 3KG DROP FROM BAR 400MM

£ 200.00

PIXEL STORM QUAD 12 CYC

LEDJ293

NEW

- 12 X 15 WATT RGBW
- POWERCON IN/OUT
- 3-48 CHANNELS ON 3 OR 5 POLE DMX (BEST IN 4 CHANNELS)
- 10° X 45° BEAM SPREAD SO LITTLE DOWNSTAGE LIGHT SPILL BUT GOOD WIDTH. BRIGHTER ! AS CLOSER TO THE CYC, IT FOLLOWS IT'S BRIGHTER !
- .....DID I MENTION IT WAS BRIGHTER ?
- IDEAL AS CYC LIGHTING
- EYEBROW INCLUDED TO HIDE LEDS WHEN UPLIGHTING. 8KG, DROP FROM BAR 300MM

£ 450.00

AT ONE OF OUR OLDEST CUSTOMERS OF SOME 38 YEARS, CUSTOMER OF LONG STANDING THAT IS. HERE WE INSTALLED 8 LED BATTENS TO LIGHT THE CYCLORAMA. THE ORIGINAL METHOD USED 3 STARLETTE FLOODS WITH 1250 WATT LAMPS FOR EACH COLOUR. THESE WERE 2M FROM THE CYC AND THE LED BATTENS WERE .5M FROM THE SAME CYC. THE LED BATTENS WERE TWICE AS BRIGHT AS THE STARLETTES WHICH ARE OUR PREFERRED CONVENTIONAL FITTING. WE WERE VERY PLEASED WITH THE RESULT AND SO WAS THE CUSTOMER. THE POWER CONSUMPTION OF THE STARLETTES WAS 47 AMPS TAKING HALF THE STAGE SUPPLY AND THE LED BATTENS ...JUST 5 AMPS ! .....AND TWICE AS MUCH LIGHT...."A NO BRAINER" I THINK YOU WILL AGREE.

LED BATTENS. THE COLOURS ARE TRUE PRIMARY COLOURS BUT THEY MAY LOSE A LITTLE IN PHOTOGRAPHY AND PRINT. IT PROVES THAT THE HUMAN EYE IS SUPERIOR TO ANY CAMERA !

METEOR 150 IP65

- 15 X 12 WATT RGBWAUV
- TR 1 IN/OUT
- 6-90 CHANNELS ON 5 POLE EXTERIOR DMX
- 20 X 30°
- EYEBROW INCLUDED TO HIDE LEDS WHEN UPLIGHTING. 8KG DROP FROM BAR 300MM

£ 700.00

MERSEA ISLAND COMMUNITY CENTRE

PIXEL STORM 12 HEX BATTENS AND A ZERO88 FLX S48 DESK

SOME OF OUR INSTALLATIONS……

SAXON WAY PRIMARY SCHOOL ALL LED LIGHTING RIG AND SOUND SYSTEM BY US.

CLIFTONVILLE PRIMARY SCHOOL ALL LED LIGHTING RIG BY US.

FORSTER PARK PRIMARY SCHOOL, LED LIGHTING, SOUND AND CURTAINS BY US.

FARRINGTON'S SCHOOL, NEW LED RIG ON OUR BARS INSTALLED 24 YEARS EARLIER.

COOMBE GIRLS SCHOOL NEW DRAMA STUDIO LIGHTS, SOUND AND CURTAINS.

TZ 350 FRESNEL

- 1 X 350 WATT COB RGBW LED
- 14°-45° MOTORISED ZOOM (STARTS AT NARROWEST)
- 5 OR 7 CHANNELS ON 3 AND 5 POLE DMX
- POWERCON IN AND OUT
- BARNDOORS INCLUDED BUT NOT SHOWN FOR CLARITY 9KG DROP FROM BAR 650MM

£ 800.00

IN AN UNSCIENTIFIC SHOOT OUT WE COMPARED IT TO A QUARTET 650 WATT FRESNEL AND A PATT 743 1 KW FRESNEL AND THEN A NOTA 1.2KW PC. WE TOOK READINGS AT 6M WITH BEAMS SIZE AND COLOUR MATCHED THE TZ 350.

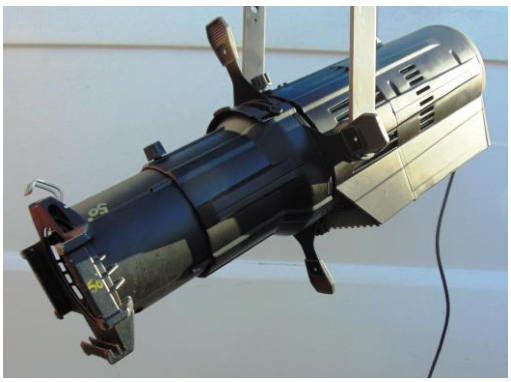
LANTERN	BRIGHTNESS AT 6M
QUARTET	100 LUX
PATT 743	200 LUX
NOTA 1.2KW PC	250 LUX
TZ 350	258 LUX COLOUR MATCHED .....BUT AT FULL..... 1100 LUX AND 6000° K COLOUR TEMPERATURE. (BRIGHTER WHITER)

PERFORMER 650 Q5

BEING PHASED OUT ?

- 1 X 240 WATT 5 COLOUR LED ARRAY, RGBAL
- WITH VIRTUAL COLOUR WHEEL TO SELECT COLOURS IN STAND ALONE MODE
- 6,7,8,11,OR 17 CHANNELS OF DMX ON 3 AND 5 IN AND OUT (BEST IN 8 CHANNEL)
- 11-15KG DROP FROM BAR 800MM

• LED BODY AND ENGINE AND BARREL	£ 1116.00
• EDLT LENS TUBE 19°, 26°, 36° AND 50°	£ 330.00
• COMPLETE FITTING	£ 1446.00



THE AMBER IS GOOD FOR SKIN TONES, ALSO YELLOWS AND ORANGES WITH SIMILAR OUTPUT TO A SOURCE 4 50° WITH A 575 WATT LAMP. LIME IS GOOD FOR FACIAL CLARITY. WITH GOBOS OUT OF FOCUS YOU DO GET SOME SHOWING OF THE LED ARRAY AT THE IMAGE. SEE DAVID'S WIZZARD WHEEZE PAGE 48....

COLOUR SOURCE LED PROFILE LUSTRE 3

GUIDE PRICE

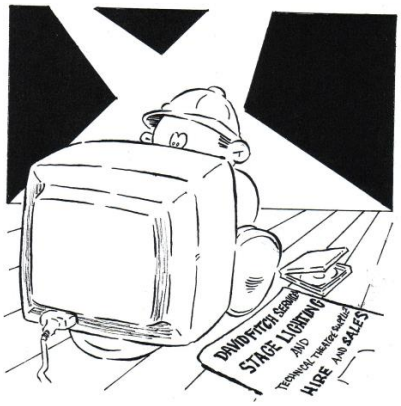
- 7 COLOUR LED ARRAY AS BRIGHT AS A SOURCE FOUR 750. LIME GIVES BETTER SKIN TONES. DEGREE LEVEL PHYSICS THIS TIME.
- CHOICE OF LENS BARREL 5°,10°,19°,26°,36°AND 50° HIGH DEFINITION LENS RECOMMENDED BUT YOU CAN USE ALL OF YOUR EXISTING SOURCE FOUR LENS STOCK !
- 5 POLE DMX IN AND OUT.
- 3/5/6 OR 17 CHANNELS OF DMX. TBC
- HOOK CLAMP AND SAFETY BOND INCLUDED. 11-15 KG DROP FROM BAR 800MM
- 50,000 HOURS WHICH IS ABOUT 40 YEARS AT THEATRE USAGE.

LED BODY AND ENGINE AND BARREL	£ 2644.00
EDLT LENS TUBE 19°, 26°, 36° AND 50°	£ 330.00
COMPLETE FITTING	£ 2974.00

WITH GOBOS OUT OF FOCUS YOU DO GET SOME SHOWING OF THE LED ARRAY AT THE IMAGE.

SPECTRA 40

THINK OF IT AS A BIRDIE.....BUT ON STEROIDS
40 WTT RGBW IP65 RATED CHANNELS DMX
4.5° , 10° OR 25° WITH LENS £ 250.00
ROUGHLY 150MM CUBE



EQUINOX FUSION 200 ZOOM SPOT EQUILED 054

- 1 X 200 WATT COB 7500°K LONG HOOK CLAMPS
- 11°-25° ZOOM
- 4.3 KHZ REFRESH (GOOD FOR TELEVISION)
- 7 COLOURS PLUS OPEN WHITE, SPLITS AVAILABLE
- 7 ROTATING GOBOS INDEXABLE, REPLACABLE
- 7 FIXED GOBOS PLUS OPEN
- GOBO SHAKE.
- POWERCON IN AND OUT 3 POLE DMX 2/14/18 CHANNELS
- 6 FACET CIRCULAR PRISM AND 5 FACET FLAT PRISM
- 450 X 310 X 185MM 12.7KG DROP FROM BAR 750MM

£ 700.00

EQUINOX FUSION 100 MOVING HEAD SPOT

- 1 X 80 WATT COB LED 10° LONG HOOK CLAMP
- 540° PAN X 210° TILT
- SMALL SIZE, NET 330 X 198 X 146 MM 4,8 KG HANGING BRACKET KIT INCL
- 7 COLOURS AND WHITE, 5 ROTATING GOBOS AND PRISM
- IEC IN AND OUT. STAND ALONE. 5/8/15 CHANNELS ON 3 POLE DMX
- 5KG DROP FROM BAR 630MM

£ 360.00

EQUINOX FUSION 120Q WASH EQUILED 448

NEW

- 120 WATT COB RGBA LONG HOOK CLAMPS
- 35°
- 540° PAN 180° TILT
- TRI IN AND OUT
- 3 POLE DMX 2/9/12 OR 16 CHANNELS 5KG DROP FROM BAR 500MM

£ 350.00

EQUINOX FUSION 260ZR EQUILED 024

- 19 X 12 WATT QUAD LED RGBW, 6°-60° ZOOM LONG HOOK CLAMPS
- POWERCON IN/OUT 2/8/17 OR 25 CHANNELS ON 3POLE DMX
- EYE CANDY RING
- 540° PAN X 270° TILT
- 414 X 324 X 221MM 9.7KG DROP FROM BAR 630MM

£ 550.00

VORTEX COMBINED ZOOM SPOT AND WASH EQULED 073

- 3 X 40 WATT QUAD LED 5°- 60° RGBW
- 10 OR 17 CHANNELS OF DMX ON 3 POLE
- 540° PAN X 190° TILT MOTORISED ZOOM
- 400 X 290 X 330MM 7.2KG DROP FROM BAR 630MM

£ 485.00

LIBRETTO 200WATT CYC COB RGBAL LEDJ 604

- 2 YEAR WARRANTY
- 200W QUIN-COLOUR COB LED (RGBAL)
- BEAM ANGLE: 90° X 105° 1147 LUX @ 2M
- ADJUSTABLE REFRESH RATE, GOOD FOR TELEVISION
- DMX CHANNELS: 4/9 OR 14 SELECTABLE
- STAND ALONE OPERATION INCLUDING COLOUR MIX,
- 0 - 100% 16 BIT DIMMING AND VARIABLE STROBE
- 4 DIMMING CURVES WITH TWO DIMMING RESPONSE TIMES: LINEAR, SQUARE LAW, INVERSE SQUARE LAW AND S-CURVE
- BRACKET ALLOWS FOR MULTIPLE RIGGING OR FLOOR STANDING APPLICATIONS
- 4 PUSH BUTTON MENU WITH LCD DISPLAY
- TRUECON IN / OUT 5-PIN XLR IN / OUT, 5KG, DROP FROM BAR 550MM
- EIGHT LEAF BARN DOORS WITH INTEGRAL GEL FRAME

£ 400.00

NUMBERS REQUIRED ?

ON A 4.5M HIGH CYC @ 1.5M FROM THE CYC (MOST SCHOOL AND AMATEUR THEATRE STAGES)

6M WIDE	5
7M WIDE	6
8M WIDE	7
9M WIDE	8
10M WIDE	9

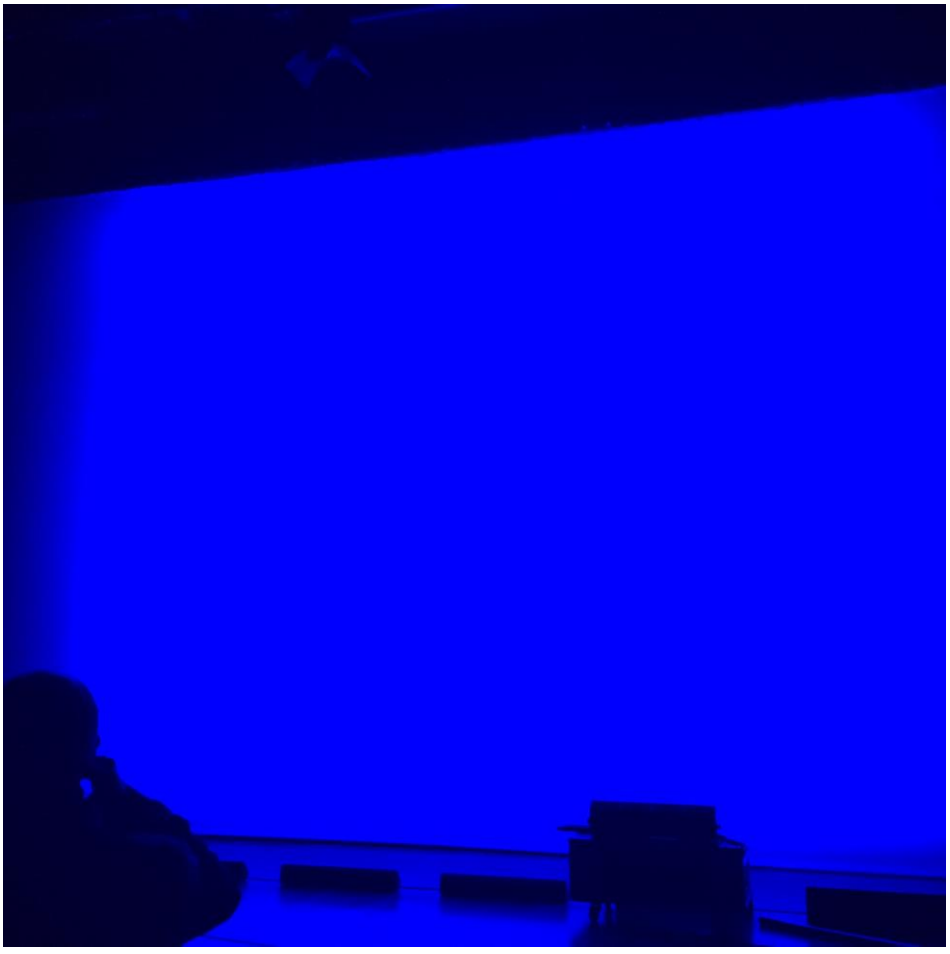
AYRTON DIABOLO S

- 8000° K
- 550 WATT
- 7°-53° ZOOM
- IRIS
- 36-56 CHANNELS OF DMX ON 5 POLE (THIS IS NOT A MISPRINT)
- INDIVIDUAL BEAM SHAPING SHUTTERS ROTATABLE
- INDEXING AND ROTATING GOBO WHEEL
- COLOUR MIXING CMY AND COLOUR WHEEL
- 540° PAN X 270° TILT
- FROST FILTER
- 5 FACET PRISM
- AND THERE A TWO PAGES MORE INFO

ALL THIS FOR ONLY £ 6900.00 EACH

ROBERT JULIAT DALIS 300 WATT CYC FLOOD

- 8 COLOUR LED, RED, GREEN, BLUE, ROYAL BLUE, AMBER, CYAN, WARM WHITE AND COOL WHITE.
- 8 CHANNELS- 72 CHANNELS.
- ASYMMETRIC DISTRIBUTION SIMILAR TO THE OLD STARLETTE OR CODA CYC LIGHT.
- 48 X 8 COLOUR LED GIVING A VERY SMOOTH ILLUMINATION.
- SPACING WILL DEPEND ON THE SIZE OF THE CYC AND DISTANCE FROM THE CYC.
- 5 POLE DMX IN AND OUT. POWERCON IN AND OUT.
- QUICK RIG SUPPORTS CLAMPS AND SAFETY BOND.
- CAN BE USED VERTICALLY TO DO SUNRISE AND SUNSETS, CELLS CAN BE GROUPED IN 2'S OR 4'S. (THINK LION KING)
- SHOWN BELOW 1M LONG WITH .5M SPACING AT 1.5M FROM THE CYC AT THE ROYAL OPERA HOUSE.



A PROFESSIONAL LUMINAIRE WITH THE APPROPRIATE PRICE.....

GUIDE PRICE £ 3672.00

ELUMEN8 062 HOUSELIGHT / BLINDER

- 2 X 100 WATT WARM WHITE 3200°K FLOOD
- 60°
- 3 OR 5 POLE DMX IN / OUT
- 1,2 OR 4 CHANNELS
- POWERCON IN / OUT
- FOR HOUSE LIGHTS OR AS A BLINDER. AS BRIGHT AS A 1KW FLOOD.
- HOOK CLAMP AND BOND INCLUDED OR FLOOR MOUNT 5KG DROP FROM BAR 400MM

£ 450.00

COB 56 TRI *43300*

- PAR 56 SIZE
- 90 WATT COB RGB
- CAPTIVE POWER CABLE
- 110°
- 3 POLE DMX IN AND OUT
- 4/5/8 CHANNELS
- HOOK CLAMP AND BOND INCLUDED OR FLOOR MOUNT 4KG DROP FROM BAR 500MM

£ 240.00

LEDJ 376 150 WATT COB

- 150 WATT COB RGBA
- POWERCON IN AND OUT
- 3 AND 5 POLE DMX 2, 4 OR 6 CHANNELS
- 80°,50°,40° AND 25° LENS INCLUDED
- HOOK CLAMP AND BOND OR FLOOR MOUNT
- BARNDOORS AVAILABLE £ 22.50
- GOOD AS HOUSE LIGHTS 4KG DROP FROM BAR 500MM

£ 330.00

NINJA 250 ZOOM

- 40 WATT RGBW PINSPOT 4°-29° MOTORISED ZOOM
- POWERCON IN/OUT
- 5/7/11 CHANNELS ON 3 POLE DMX
- GREAT FOR MIRROR BALLS. 4 KG DROP FROM BAR 600MM

£ 300.00

NEW-ISH LED PRODUCTS

THE DINKY STAGE WORKING LIGHT - BLUE LED 10 WATTS

- 10 WATT BLUE LED
- NON DIM

SUPPLIED AS LANTERN ONLY FOR YOU TO SPECIFY FLOOR STAND, HANGING ETC PRICE ON SUCH SUPPLIED AT YOUR REQUEST. STOPS (SHOULD STOP) ACTORS WALKING INTO THE SET .....OR EACH OTHER.....BUT THEN THEY ARE ACTORS.....

£ 30.00

30 WATT VERSION £ 40.00

WASH LIGHT FOR GALLERIES

- 50 WATT WARM WHITE NON DIM
- 100°
- 2700°K
- SUPPLIED WITH HOOK CLAMP AND SAFETY BOND.

£ 50.00

CABARET COLOUR EQULED 037

- 36 X 8 WATT QUAD RGBW
- 40°
- 450 X 330 X 104 MM
- POWERCON IN/ OUT
- 3 POLE DMX 1,3,4,5,9 CHANNELS 5KG

£ 340.00

QUICKEST FOR THE SMALL BAND, A COUPLE OF THESE AND A COUPLE OF STANDS A SMALL LIGHTING DESK AND ROCK AND ROLL....ON A BUDGET !

PHANTOM 65

- 65 WATT LED 16°
- 540° X 270 ° X 16 BIT DIMMING
- 8 OR 13 CHANNELS DMX ON 3 AND 5 POLE
- POWERCON IN AND OUT
- MANUAL FOCUS, HANGING BRACKET KIT INCLUDED LONG HOOK CLAMPS
- 1 GLASS AND 6 METAL GOBOS
- BI-DIRECTIONAL ROTATION, 3 FACET PRISM, GOBO SHAKE
- 8 DICHROIC COLOURS PLUS WHITE, SPLIT COLOURS, RAINBOW
- 6KG 180 WATTS DROP FROM BAR 630MM

£ 750.00

PHANTOM 130

- 130 WATT LED 12°-21°
- 540° X 270 ° X 16 BIT DIMMING
- 9 OR 15 CHANNELS DMX ON 3 AND 5 POLE
- POWERCON IN AND OUT
- MOTORIZED FOCUS, HANGING BRACKET KIT INCLUDED LONG HOOK CLAMPS
- 7 FIXED AND 7 ROTATING GOBOS
- BI-DIRECTIONAL ROTATION, 3 FACET PRISM, GOBO SHAKE
- 7 DICHROIC COLOURS PLUS WHITE, SPLIT COLOURS, RAINBOW
- 13KG 298 WATTS DROP FROM BAR 500MM

£ 1300.00

SHARK ONE SPOT

- 60 WATT LED 15°
- 540° X 270° X 16 BIT
- 8 OR 14 CHANNELS DMX ON 3 POLE IN AND OUT
- IEC IN AND OUT
- MOTORIZED FOCUS, HANGING BRACKET KIT INCLUDED LONG HOOK CLAMPS
- 1 GLASS AND 6 METAL GOBOS
- BI-DIRECTIONAL ROTATION, 3 FACET PRISM, GOBO SHAKE
- 7 DICHROIC FILTERS PLUS WHITE, RAINBOW
- 6.2KG, 110 WATTS DROP FROM BAR 500MM

£ 583.00

SHARK ONE WASH

- 7 X 12 WATT HEX RGBWAUV 25°
- 540° X 270° X 16 BIT
- 8 OR 15 CHANNELS DMX ON 3 POLE IN AND OUT
- IEC IN AND OUT, HANGING BRACKET KIT INCLUDED LONG HOOK CLAMPS
- 3.6KG, 120 WATTS DROP FROM BAR 500MM

£ 330.00

SHARK ONE WASH ZOOM

- 7 X 10 WATT QUAD RGBW 6°- 36°
- 540° X 270° X 16 BIT
- 8 OR 15 CHANNELS DMX ON 3 POLE IN AND OUT
- IEC IN AND OUT, HANGING BRACKET AND KIT INCLUDED LONG HOOK CLAMPS
- 4.7KG, 80 WATTS DROP FROM BAR 500MM

£ 481.00

LEDJ 281

- 15 X 8 WATT QUAD LED RGBW
- 20°
- IP65 RATED
- OUTDOOR CONNECTORS CAPTIVE CABLES
- 3 POLE OUTDOOR DMX CABLE, 4 CHANNELS
- HOOK CLAMP AND BOND INCLUDED OR FLOOR MOUNT 3KG DROP FROM BAR 400MM

£ 290.00

PAR 16, 20 & 30 COLOUR BY FILTER

PAR 16 LED

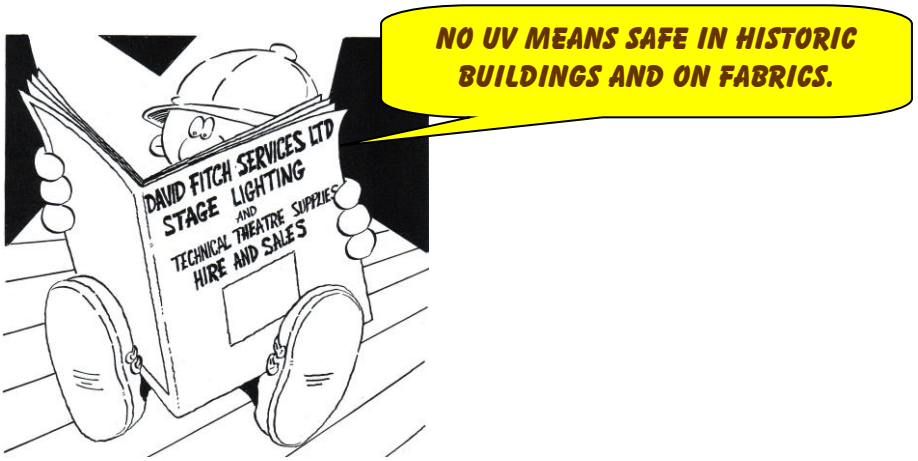
- 10 WATT LED 36°
- 2700° K -1800° K ON DIM
- FEED FROM CONVENTIONAL DIMMER
- NO UV
- PLUG, BASE OR HOOK CLAMP ETC EXTRA
- .3KG £ 49.00

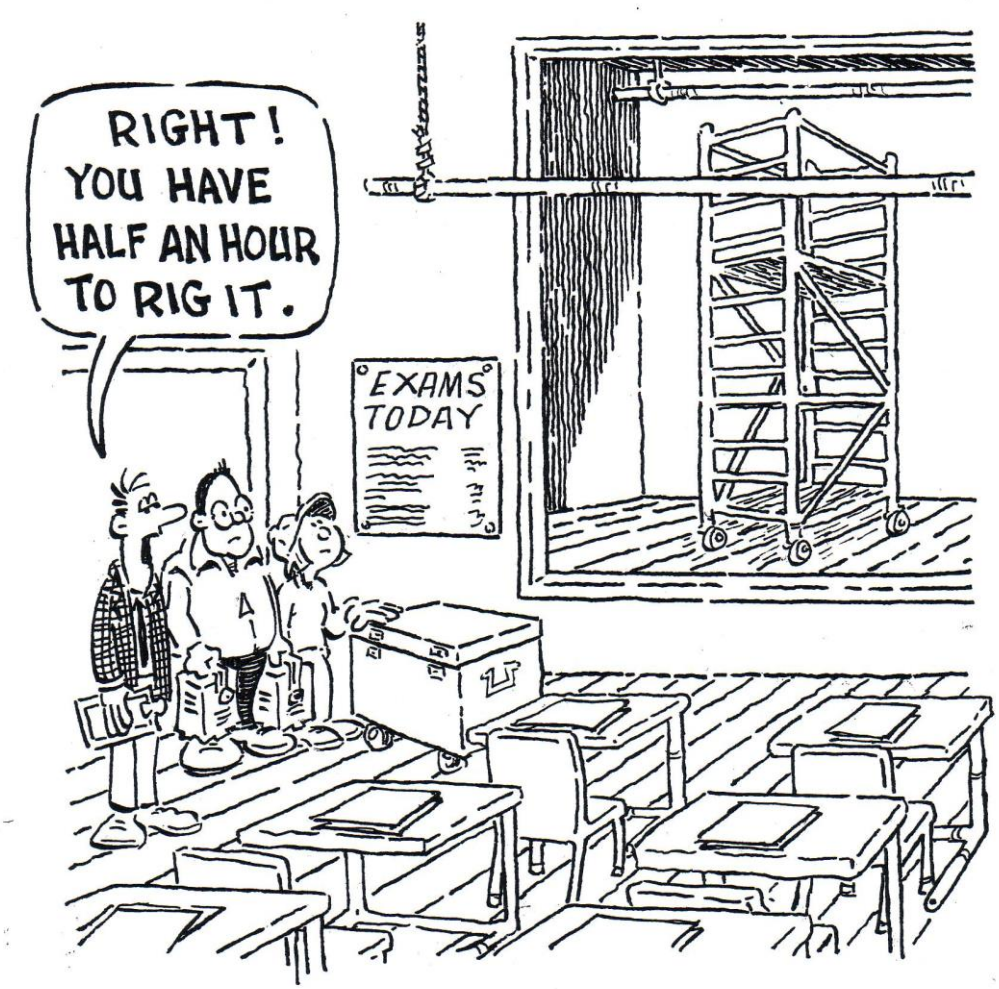
PAR 20 LED

- 15 WATT LED 45°
- 2700° K -1800° K ON DIM
- FEED FROM CONVENTIONAL DIMMER
- NO UV
- PLUG, BASE OR HOOK CLAMP ETC EXTRA
- .6KG £ 70.00

PAR 30 LED

- 20 WATT LED 45°
- 2700° K -1800° K ON DIM
- FEED FROM CONVENTIONAL DIMMER
- NO UV
- PLUG, BASE OR HOOK CLAMP ETC EXTRA
- .9KG £ 84.00

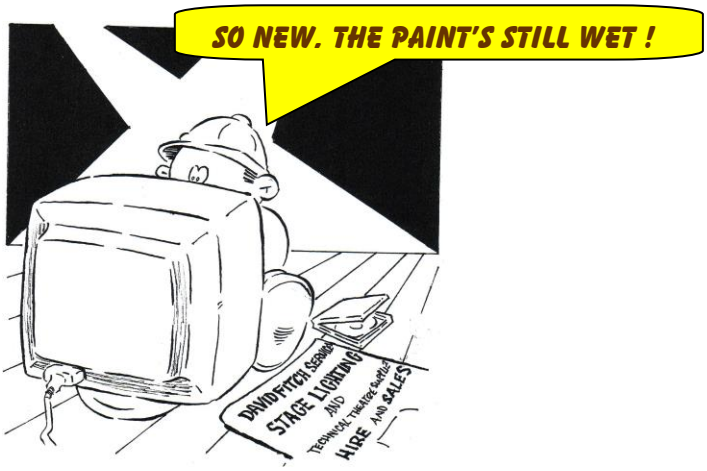




LDR ASTRO FOLLOW SPOT 200 WATT LED

- 200 WATT LED, 2 VERSIONS EITHER 3200°K OR 5600°K
- 10-20M THROW ABOUT THE SAME OUTPUT AS 575 WATT MSR
- 8° - 22°
- ON BOARD DIMMING
- DMX AND RDM
- COOL RUNNING
- COLOUR MAGAZINE, BALL RACE SPIGGOT AND STAND INCLUDED
- NO LAMP REPLACEMENT

£ 4150.00



ROBERT JULIAT SULLY LED FOLLOW SPOT

- 115 WATT LED. COOL WHITE 5700°K
- 10.5° - 20°
- 6 COLOUR MAG BUILT IN
- FULLY CLOSING IRIS
- PERFECT DIMMING NO DROP OFF OR COLOUR SHIFT
- FOLLOW SPOT STAND WITH BALL RACE SPIGOT
- WOULD BEAT A 1200 WATT TUNGSTEN HALOGEN CANTATA

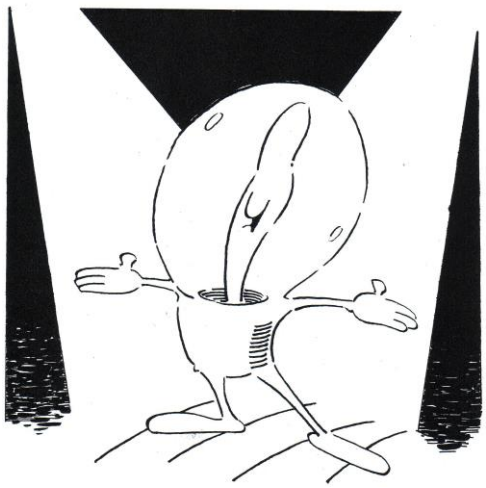
£ 3645.00

ROBERT JULIAT ROXIE LED FOLLOW SPOT

STUNNING !

- 300 WATT LED FOLLOW SPOT 10°-20°
- CHOICE OF 3200° K, 4100°K OR 5000°K LED ENGINE.
- 5000°K WOULD MATCH CARBON ARC AND BEAT 1KW CSI !
- COLOUR MAG USE LEE FILTERS.
- 50,000 HOUR LIFE EXPECTED BUT TBC.
- DIMMER KNOB BY THE SIDE HANDLE,
- GOBO SLOT AND BLACKOUT IRIS, PERFECT DIMMING (NO DROP OFF).
- COOL RUNNING.
- INCLUDES STAND AND BALL RACE SPIGOT.

£ 4730.00



ROBERT JULIAT ALICE AND OZ 600 WATT LED FOLLOW SPOTS

600 WATT LED FOLLOW SPOT. OZ 7°-14° LONG THROW OR ALICE 14°-24° SHORT THROW 6000°K LED ENGINE. (MATCHES 1200 WATT HMI .....BUT I THINK ...IT IS BRIGHTER) COLOUR MAG WITH CHANGEABLE FILTERS. USE LEE FILTER. LIFE EXPECTED TBC. DIMMER KNOB ON THE SIDE HANDLE, GOBO SLOT AND BLACKOUT IRIS, PERFECT DIMMING (NO DROP OFF). COOL RUNNING. INCLUDES, STAND AND BALL RACE SPIGOT . PROFESSIONAL EQUIPMENT.

OZ £ 9818.00

ALICE £ 9998.00

MY COMMENT AT PLASA "WOW"

ALL I SAID WAS "IT WILL LOOK ALRIGHT....WHEN IT'S LIT"

DEMUX (DEMULTIPLEER)) SPLITTERS AND TERMINATORS

	DMX SPLITTER **A. DMS 2-6** SPLIT MERGE AND ISOLATOR 2 DMX IN 6 OUT 3 AND 5 POLE XLR RACKMOUNT, REQUIRES MAINS SUPPLY **£ 190.00**
	DMX SPLITTER **B. BOTE 63** 1 DMX IN 6 OUT 3 AND 5 POLE XLR RACKMOUNT. REQUIRES MAINS SUPPLY **£ 100.00**
	DMX SPLITTER **C. DB1-4** (D50780) 1 DMX IN 4 OUT 3 AND 5 POLE XLR RACKMOUNT, REQUIRES MAINS SUPPLY **£ 140.00**

DMX SPLITTER

D. BOTE 71

1 DMX IN 8 DMX OUT
3 POLE XLR
WALL OR BAR MOUNT

£ 100.00

DMX SPLITTER

E. MINI DMX SPLITTER OR BOTE 72

1 IN 2 OUT
3 POLE XLR ONLY
LOOSE BOX
REQUIRES MAINS SUPPLY (TRANSFORMER SUPPLIED)

£ 40.00

DEMULTIPLEX UNIT (DEMUX)

F. ZERO88 DEMUX WHILST STOCKS LAST

24 WAYS WITH DIP SWITCHES TO START HIGHER
POSITIVE OR NEGATIVE ON ALL CHANNELS
ZERO88 AND OTHER, STRAND IS THE NEGATIVE OUTPUT
5 POLE DMX IN AND OUT 8 PIN DIN WIRED PINS 1-6 = CHANNELS 1-6 THEN + VE & -VE REQUIRES MAINS.

£ 495.00

DB1-8 DMX SPLITTER

1 IN AND 8 WAY OUT 3 POLE ONLY DMX
19" RACKMOUNT

£ 120.00

DMX TERMINATOR

H. DMX TERMINATOR

THIS STOPS THE DMX STREAM AND CAN PREVENT "GHOSTING" WHERE THE DMX CAN GIVE NUISANCE SIGNALS OR FLICKERING.
3 OR 5 POLE VERSIONS.

£ 6.00

UNINTERUPTABLE POWER SUPPLY

USED TO PROTECT DESK SUPPLY IF YOU ARE IN AN AREA SUBJECT TO POWER FLUCTUATIONS OR THE ELECTRICS OF THE VENUE ARE SUBSTANDARD. OFTEN OPEN AIR ON A FARM. YOUR DESK MAY RESET MID SHOW, THIS DEVICE PREVENTS THIS. EXITING PICTURE, ISN'T IT ?

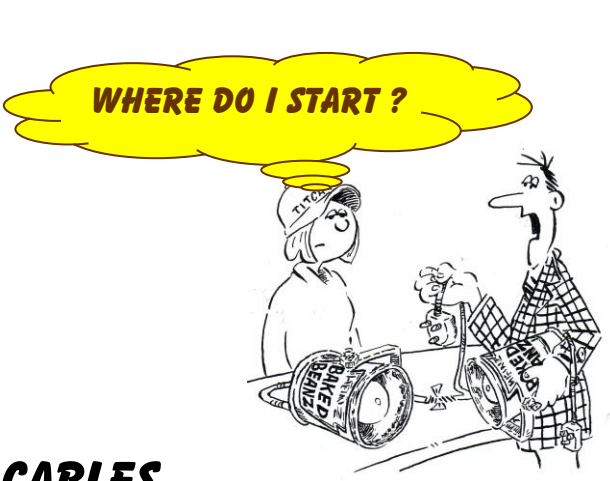
APP £ 100.00

NOT FOR THE MAN OR WOMAN WHO HAS EVERYTHING
BUT FOR THE PLONKER WHO FORGETS EVERYTHING !

THE DFS DMX "LIFESAVER" KIT

1 NO 3-5 ADAPTER, 1 NO 5-3 ADAPTER.
1 NO 3 POLE TERMINATOR, 1 NO 5 POLE TERMINATOR.
1 NO 3 POLE DMX PHASE REVERSE CABLE
1 NO 13A-POWERCON CABLE
1 NO 13A-IEC CABLE

£ 50.00



CABLES

3 POLE DMX CABLES COMERCIAL GRADE BLACK	
1M	£ 10.00
2M	£ 11.00
3M	£ 12.00
6M	£ 13.00
10M	£ 15.00
20M	£ 20.00
5 POLE DMX CABLES COMERCIAL GRADE BLACK	
1M	£ 12.50
2M	£ 14.00
3M	£ 15.00
5M	£ 17.00
10M	£ 22.00
20M	£ 32.00
30M	£ 50.00
DMX ACCESSORIES	
TERMINATOR 3 OR 5 POLE	£ 6.00
3-5 AND 5-3 ADAPTORS	£ 6.00
PHASE REVERSE CABLE 3 POLE	£ 6.00

EXITING PICTURE..... ISN'T IT

LIGHTING INANIMATE OBJECTS.....AGAIN

DMX MEMORY DESKS

YESTERDAYS PRICES ARE NOT TODAYS PRICES ! WORLD TRADING CONDITIONS.

ZERO88 FLX S24 (48 FADERS)

S24 2 UNIVERSE DESK £ 2000.00
FREE APP FOR PHONE OR IPAD WHICH CAN BE USED AS A RIGGERS REMOTE !
COLOUR PICKER AND MOVEMENT CONTROL WITH EFFECTS BUILT IN. COULD BE 24 CHANNELS FOR DIMMING & 24 FIXTURES

ZERO88 FLX S48 (96 FADERS)

S48 2 UNIVERSE DESK £ 3000.00
TOUCH SCREEN MONITOR EXTRA
FREE APP FOR PHONE OR IPAD WHICH CAN BE USED A RIGGERS REMOTE !
COLOUR PICKER AND MOVEMENT CONTROL WITH EFFECTS BUILT IN

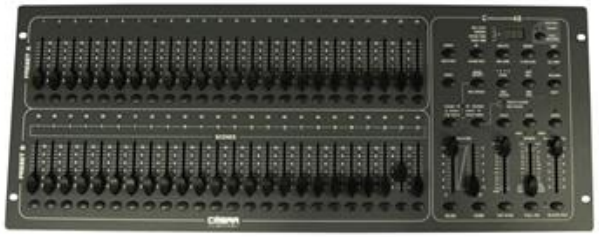
REQUIRES 2 MONITORS OR TOUCH SCREENS

ETC ELEMENT 2

1024 CHANNELS £ 7250.00
40 MULTI-PURPOSE KEYS
2 DVI MONITOR £ 160.00 EA
OR (CAN BE 1 OFF EACH)
2 TOUCH SCREEN MONITOR APP £ 450.00
10,000 CUES
1000 COLOUR PALETTES AND POSITIONS AND BEAM SHAPES FOR MOVING LIGHTS
LED FIXTURES CAN BE SET TO LEE OR ROSCO COLOURS

ETC COLOURSOURCE 20 OR 40

20 IS ACTUALY 40 CHANNELS,
40 IS ACTUALY 80 CHANNELS
999 CUE STACK WITH SUBMASTERS
PLEASE ASK FOR THE DATA SHEET
COLOURSOURCE 20 £ 1685.00
COLOURSOURCE 40 £ 2645.00

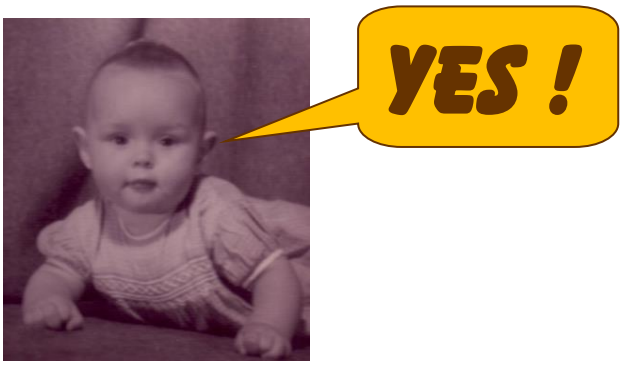


SHOWMASTER 48 MK 2

48 CHANNELS WITH 96 SUBMASTERS OR CHASES (OR COMBINATION)
BUT NO CUE STACK.
BUT ONLY 48 CHANNELS OF DMX. SO GOOD FOR THE SMALLER INSTALLATION.

£ 400.00

SO IS LED THE WAY FORWARD ?.....IT'S A RESOUNDING YES FROM ME !



DAVID'S WIZARD WHEEZE

OK, AS WE HAVE ESTABLISHED LED PROFILES ARE NOT GREAT FOR "OUT OF FOCUS" GOBOS. THE SOLUTION IS TO USE A CONVENTIONAL PROFILE SUCH AS A SOURCE FOUR JUNIOR ZOOM AND ADD A SINGLE CHANNEL BOTE 32 DMX DIMMER (ONLY £90 !) . THIS CAN ALSO BE USED FOR A CHANDELIER OR SIMILAR.

JUST REMEMBER THAT A SOURCE FOUR IS APPROX. 2 AMPS, THE CHANDELIER IS 2 AMPS (12 NO 40WATT CANDLE LAMPS) DON'T USE LED LAMPS AS THEY ARE NOT NORMALLY DIMMABLE.

OUR LED BARS ARE WIRED AS 1 CIRCUIT OF 10 AMPS ON A C TYPE BREAKER FOR EVERY 6 SOCKETS.
ADAPTED OLD BARS ARE A 6 AMP C TYPE BREAKER PER SOCKET AS THE SITE CONDITIONS ALLOW.
ANY DOUBLED UP CIRCUITS ARE ON 10 AMP C TYPE BREAKERS.

YOUR OLD DIMMERS ARE REDUNDANT AS THE DIMMERS ARE BUILT IN TO THE FITTINGS.

LED FILAMENT LAMPS
FOR HOME AND WORK

LAMP	WATTS LED LUMENS	EQ	BASE & SHAPE	HOURS	PRICE
CALEX	4 W 400 LM	25	BC CANDLE	20,000	£ 10.00
MEGGAMAN	5.5 W 470 LM	25+	BC, SES OR ES CANDLE	15,000	£ 10.00
SURDON	6 W 650 LM	40+	ES BULB	25,000	£ 14.50
CALEX	6 W 600 LM	40+	BC BULB	20,000	£ 15.00
LAP	6W 600 LM	40+ (47)	BC OR ES BULB	20,000	£ 12.00
CP	5W DIMMABLE 530 LM	40	BC OR ES BULB	25,000	£ 12.00
CP	8W 950 LM	90	BC OR ES BULB	25,000	£ 14.40
CP	8W DIMMABLE 950 LM	90	BC OR ES BULB	25,000	£ 15.00

THE ONES YOU GET IN DIY STORES ARE ONLY 6000 HOURS LIFE
SO OURS ARE THE BETTER VALUE FOR MONEY !

PLEASE CONTACT THE OFFICE FOR MORE DETAILS

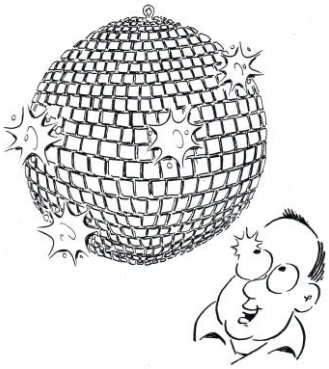
01322 350 351

NOTES

DID YOU KNOW?

WE ALSO SUPPLY ON HIRE.....

THEATRE LIGHTING,
SOUND EQUIPMENT,
MIRROR BALLS (OUR SPECIALITY)
PYROTECHNICS,
PROPS, OVER 1150 TYPES !
EFFECTS PROJECTIONS,
RIPPLE EFFECTS,
STAR CLOTHS,
DISCO EFFECTS AND MUCH MORE.....



IT WAS OUR MIRROR BALL ON
"STRICTLY COME DANCING"
...FIRST 13 SERIES
AND WE HAVE MANY MORE !

- WE ALSO INSTALL THE ABOVE AND PROVIDE FULL TECHNICAL SERVICES FOR SHOWS.
- WE ALSO ILLUMINATE BUILDINGS FOR PRIVATE AND PUBLIC PARTIES.
- WE CAN LIGHT THE VILLAGE HALL OR ANY FUNCTION SUITE FOR A THEMED PARTY.