

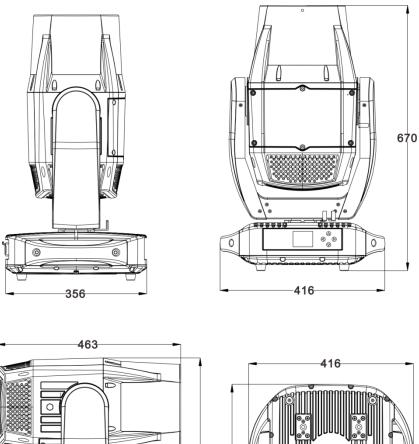
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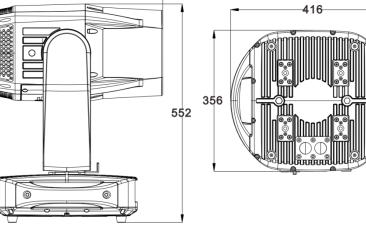
USER MANUAL

1 PRODUCT

1.1 TECHNICAL SPECIFICATIONS

LED colors	450W LED
Angle	2,7° -30°
Power	560W
Control Protocol	DMX/RDM/ARTNET/sACN/WEB server/W-DMX (Optional)
Voltage Range	AC100~240V,50/60Hz
Input Current	110V/5A,220V/2.5A
Protection	IP65
Operation Temperature	-20℃~45℃
Dimensions	416x356x670mm
Weight	34kg





1.2 Safety Notes

IMPORTANT

- This product must be installed by a qualified professional.
- In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes
- The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

CAUTION!

- Make sure that the available voltage is not higher than stated on the rear panel.
- Do not touch the power cables if your hands are wet.
- The earth wire must always be connected to the ground. Therefore it is essential to connect the yellow/green conductor to earth.
- Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time. The electric connection, repairs and servicing must be carried out by a qualified employee.
- Always disconnect power input cable to completely remove power from unit when not in use or before cleaning or servicing the fixture.
- Do not switch the fixture on and off in short intervals as this would reduce the lamp's life.
- Do not touch the device's housing bare hands during its operation (housing becomes hot)! The surface of the product's casing can reach up to 70° C (158° F) during operation. Avoid contact by persons and materials. Do not install the product in a location where there is a risk of accidental contact. Allow the product to cool for at least 10 minutes before handling.
- For replacement use lamps and fuses of same type and rating only.
- Please protect the fixture and avoid destroy during transport and installation. If there is any damage to the coating, the shell may be corroded.
- When hanging lamps and lanterns, it is necessary to verify that facilities and hooks can bear at least 10 times the weight of lamps and lanterns.
- Fix the safety rope at the correct holes only. Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- The maximum ambient temperature 45°C must never be exceeded. Do not operate the product if the ambient temperature (Ta) exceeds 45° C (115° F).
- During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.

Electrical Warning

- The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person
- For replacement use lamps and fuses of same type and rating only.
- The lens has to be replaced when it is obviously damaged, so that its function is impaired, e. g. due to cracks or deep scratches!

Keep the product well away from flammable materials

- Keep all combustible materials (e.g. fabric, wood, paper) at least 10m (40 in.) away from the product.
- Ensure that there is free and unobstructed airflow around the product. Provide a minimum clearance of 150 mm (6 in.) around fans and air vents.
- Do not illuminate surfaces within 10 m (40 ft.) of the product.
- Do not install a fuse that has a higher rating than the one originally installed in the product. Do not bypass fuses.
- Do not stick filters, masks or other materials onto optical components.
- If the fixture seems to be abnormally hot, shows signs of melting or emits smoke, disconnect the fixture from power immediately and allow it to cool. Do not touch the fixture without heatproof safety gloves. Keep the fixture well away from combustible and flammable materials.

NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE! RETINA INJURY RISK - MAY INDUCE BLINDNESS!

Do not point the front of the fixture towards the sun or other strong light sources. The front lens focuses and concentrates light just like a magnifying glass. Strong light can cause internal damage to the fixture, melting components or starting an internal fire within seconds.

To avoid problems from strong light sources:

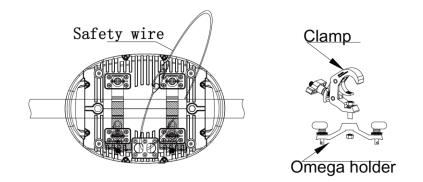
- Do not expose the front of a fixture to sunlight or any other strong light source. Avoid pointing other high-powered beam lights directly at the fixture.
- Do not focus a light beam from one lighting fixture directly towards another.
- For outdoor applications during daylight, make sure that the front face of any fixture is shielded or points away from the sun, even when not in use.
- Do not expose the product to heat (from other lighting fixtures for example).

2 INSTALLATION

2.1 MOUNTING

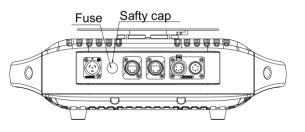
Truss installation

- Keep all combustible materials (e.g. fabric, wood, paper) at least 500 mm (20 in.) away from the product.
- For overhead use, always install a safety cable that can hold at least 10 times the weight of the fixture.
- For overhead installation, the fixture must be always secured with a safety wire that can bear at least 10 times the weight of the fixture;
- Secure the fixture with a safety cable through the rear safety eye and truss as shown..
- Ensure that the structure (truss) to which you are attaching the fixture is secure



2.2 Fuse replacement

- Remove the safety cap by a screwdriver.
- Fetch the old fuse from safety cap.
- Install a new fuse.
- Install the safety cap.



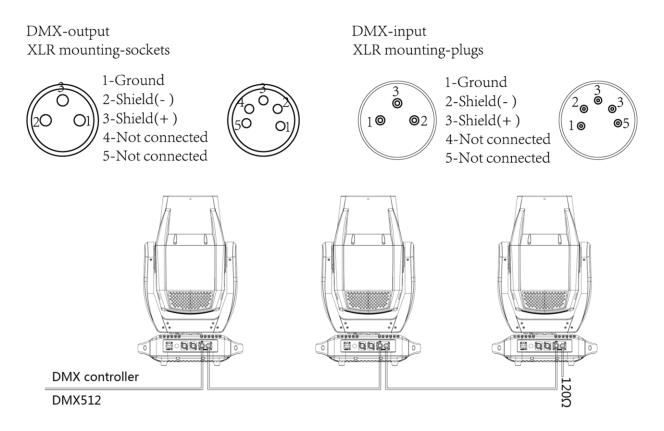
2.3 POWER CONNECTIONS

 This product has an auto-ranging power supply that can work with an input voltage range of 100–240 VAC, 50/60 Hz.

AC Plug						
Connection	Wire (U.S.	Wire(Europe)	Screw Color			
AC Live	Black	Brown	Yellow/Brass			
AC Neutral	White	Blue	Silver			
AC Ground	Green/Yellow	Green/Yellow	Green			

2.4 Data network requirements

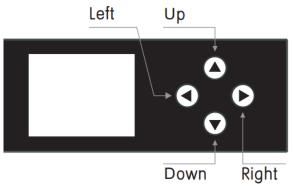
- Connect the DMX512 controller to the units in series. A DMX 512 data link is required in order to control the fixture via DMX. The fixture has 3/5-pin XLR connectors for DMX data input and output.
- Each unit has N DMX channels so the DMX Addresses should increase by increments of 1, (Nx1)+1, (Nx2)+1, (Nx3)+1...
- Any DMX address in the range from 001 to 512 may be used.
- Connect the DMX-output of the first fixture in the DMX chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.
- Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120 Ω resistor between Signal (–) and Signal (+) into a 3/5-pin XLR-plug and plug it in the DMX-output of the last fixture.



3 FUNCTIONS AND SETTINGS

3.1 DISPLAY OPERATION

- LEFT: Used to access the menu or to return a previous menu option;
- RIGHT: Used to select and store the current menu or confirm the current function value or option within a menu;
- UP: Navigates downwards through the menu list and increases the numeric value when in a function;
- DOWN: Navigates upwards through the menu list and decreases the numeric value when in a function;
- •
- When the display locked, please unlock the display as below:
 - 1. Keep pressing BACK around 5sec, until the display shows inset password.
 - 2. Press "up down up down, enter" to unlock.



ADDRESS 001 - 512(Default 001) DMX address setting PERSON BASIC Use the menu to select desired STANDARD (Default) channel mode EXTEND RUNMODE DMX512 (Default) Select Signal Default: DMX512 ARTNET ARTNET: Ethernet control ARTNET TO DMX CUSTOM1-2 Set up get into EDIT SACN MENU edit AUTO CUSTOM1 CUSTOM2 OPTION OFF(Default) PAN moving direction selection PAN INVERT ON **OFF(Default)** TILT moving direction selection TILT INVERT ON STUDIO Fan mode low speed PERFORM POWER Fast rotation of fan, all power LIVE (Default) Automatic rotation of fan

3.2 Menu Map

BLACKOUT	OFF (Default)		Select OFF blackout without delay
DLAUNUUI	ON		Select ON Blackout delay 3s
	DIM4 (Default)		
	DIM3		
DIMMER	DIM2		Dimming curves OFF (fast) to DIM 4
	DIM1		(slow);
	OFF		
	1200Hz(Default)		Sets the PWM frequency
	2400Hz		
LED PWM	4000Hz		
	6000Hz		
	25000Hz		
	SAVE (Default)		Hold after loss of DMX signal
DMX ERROR	BLACK		Blackout after loss of DMX signal
	On		Display backlight always on
DISPLAY	30s(Default)		Turns off display backlight after
TIME	1min		30s/1min
	2min		/2min of inactivity
	OFF		Locks display (passcode is <up>,</up>
DISPLAY			<down>,<up>, <down>,</down></up></down>
LOCK	ON (Default)		<enter>)</enter>
	NO(Default)		Not upload data
LOAD PARA	YES		Upload data
	RECOVERY	****	Restore default factory settings.
	CLEAN EDIT1	****	Clean customer self-editing scene
SETTING	CLEAN EDIT2	****	Clean customer self-editing scene 2
SETTING		NO	Hide wireless mode WDMX reset
	WDMX HIDE	VEC	and signal hide and the default is
		YES	wired mode only
	NET SWITCH	2.xxx.xxx.xxx	Net switch off IP mode
	NET SWITCH	10.xxx.xxx.xxx	Net switch on IP mode
NETWORK	UNIVERS	0-255	Packet group Settings
NEIWORK	IP MODE	DEFAUL IP	Default IP
		CUSTOM IP	Customer's IP
	CUSTOM IP	XX.XX.XX.XX	Customer's IP setting
	OFF		XY Encoder switch.
PT ENCODER	ON(Default)		OFF is close; ON is open.
	****	中文	Language
LANGUAGE	English(Default)		
WDMX	NO		Do not clear the receiver's message
RESET	YES		Clear the receiver's message

		ONLY XLRDM	IX			ONLY XLR is wire only	
		XLRDMX FIRS	ST			XLR FIRST is wire first	
	SIGNAL	ONLY WDMX			ONLY WDMX is wireless only		
		WDMX FIRST			WDMX FIRS is wireless first		
		WDMX TO XL	RDMX		WDMX TO DMX is wireless to wired		
EDIT			PAN		0-255		
			TILT		0-255		
			PT SPE	ED	0-255		
			CMY_C		0-255		
			CMY_M		0-255		
			CMY_Y		0-255		
			COLOR		0-255		
			ROTA.C	GOBO	0-255	Edit the custom programs1-30	
			GOBO.I	ROTA	0-255	Select play 【EDIT 1】 in	
			FIXED (GOBO	0-255	RUNMOEDE CUSTOM 1; Select	
	EDIT 1-2	STEP 1-30	INSERT	EFFECT	0-255	play 【EDIT 2】 in RUNMOEDE	
			ANIMATION PRISM FROST ZOOM FOCUS DIMMER STROBE		0-255	CUSTOM 2	
					0-255		
					0-255		
					0-255		
					0-255		
					0-255		
					0-25		
			TIME		0-255		
			USE		YES/NO	Select YES to run the steps user need.	
MANUAL	AUTO TEST	·	·				
		PAN					
		TILT	TILT				
		PT SPEED	PT SPEED				
		CMY_C	CMY_C				
		CMY_M				Manual control channel	
		CMY_Y		0-255			
	CHANNEL	COLOR		0-255			
		ROTA.GOBO		0-255			
		GOBO.ROTA		0-255		-	
		FIXED GOBO		0-255			
		INSERT EFFE	CT	0-255			
		ANIMATION		0-255			
		PRISM		0-255			

		FROST		0-255		
		ZOOM		0-255		
		FOCUS		0-255		
		DIMMER		0-255		
		STROBE		0-25		
	DEBUG HIDE	NO				
	DEDOGTIDE	YES			0-200	
		ALL RESET			Select Yes/No to carry out all reset	
		PT RESET			Select Yes/No to carry out P/T reset	
	DECET	COLOR SYST	EM		COLOR/CTO reset	
	RESET	GOBO SYSTE	M		COLOR RESET, GOBO RESET, FGOBO RESET	
		OTHER			ZOOM, FOCUS, PRISM	
	FIXTURE HOU				Hours of fixture use	
	LED USE HOU				LED use time	
	TEMPERATUR	E			LED temperature	
	VERSION				Software versions	
	NETWORK	1			Check network parameter	
	RDM	UID		XXXXXXXX	Check fixture's ID	
		LABEL NEPTUNE 550 HYBRID		INE 550 HYBRID	Check fixture's LABEL	
		MEMORY IC			Memory IC	
		ANGLESENSOR			Angle Sensor	
		PAN SENSOR			Pan Sensor	
		PAN ENCODER			Pan Encoder	
		PAN DRIVEIC			Pan Drive IC	
		TILT SENSOR			Tilt Sensor	
INFO		TILT ENCODER			Tilt Encoder	
		TILT DRIVEIC			Tilt Drive IC	
		TEMPERATUR	MPERATURE		Temperature	
	SYSTEM	CMY_C RESET			CMY_C reset	
	ERROR	CMY_M RESE	ET		CMY_M reset	
	ERROR	CMY_Y RESE	Т		CMY_Y reset	
		COLOR RESE	Т		Color reset	
		GOBO RESET	-		Gobo reset	
		RGOBO RESET			Rgobo reset	
		FGOBO RESE	T		Fgobo reset	
		ANIMATION R	ESET		Animation reset	
		PRISM RESET	Г		Prism reset	
		FROST RESE			Frost reset	
		ZOOM RESET			Zoom reset	
		FOCUS RESE			Focus reset	

SERVICE		PAN	±127	Pan position fine adjustment
		TILT	±127	Tilt position fine adjustment
		CMY-C	±127	CMY-C position fine adjustment
		CMY-M	±127	CMY-M position fine adjustment
	****	CMY-Y	±127	CMY-Y position fine adjustment
		COLOR	±127	Color position fine adjustment
		ROTA.GOBO	±127	ROTA.GOBO position fine adjustment
		GOBO.ROTA	±127	GOBO.ROTA position fine adjustment
		FIXED GOBO	±127	FIXED GOBO position fine adjustment
		ANIMATION	±127	ANIMATION position fine adjustment
		PRISM	±127	PRISM position fine adjustment
		FROST	±127	ZOOM position fine adjustment
		ZOOM	±127	Zoom position fine adjustment
		FOCUS	±127	Focus position fine adjustment

All passwords of this product are <UP>, <DOWN>,<UP>, <DOWN>, <ENTER>

4 USING A DMX512 CONTROLLER

4.1 DMX CONTROL

BASIC (22CH)	STANDARD (26CH)	Extend (30CH)	Value	Function
CH.1	CH.1	CH.1	000-255	PAN 0-540°
-	CH.2	CH.2	000-255	PAN FINE
CH.2	CH.3	CH.3	000-255	TILT 0-270°
-	CH.4	CH.4	000-255	TILT FINE
CH.3	CH.5	CH.5	000-255	PT Speed
CH.4	CH.6	CH.6	000-255	CYAN
CH.5	CH.7	CH.7	000-255	MAGENTA
CH.6	CH.8	CH.8	000-255	YELLOW
			COLOUR	MACRO
			000-010	No Function
			11-20	L106
			21-30	L194
			31-40	L019
			41-50	R08
			51-60	L213
			61-70	R80
			71-80	L202
			81-90	L328
CH.7	CH.9	CH.9	91-100	R3314
			101-110	L101
			111-120	L768
			121-128	No Function
			129-147	CYAN 100% / MAGENTA UP / YELLOW 0%
			148-166	CYAN DOWN / MAGENTA 100% / YELLOW 0%
			167-185	CYAN 0% / MAGENTA 100% / YELLOW UP
			186-204	CYAN 0% / MAGENTA DOWN / YELLOW 100%
			205-223	CYAN UP / MAGENTA 0% / YELLOW 100%
			224-242	CYAN 100% /MAGENTA 0%/YELLOW DOWN
			243-255	CYAN 100%/MAGENTA UP/YELLOW 0%
CH.8	CH.10	CH.10	000-255	CMY SPEED(SPEED 100%->1)
			COLOR W	HEEL 7+1
			000-007	WHITE
CH.9	CH.11	CH.11	008-015	COLOR 1
			016-023	COLOR 2
			024-031	COLOR 3

			032-039	COLOR 4
			040-047	COLOR 5
			048-055	COLOR 6
			056-063	COLOR 7
			064-191	COLOR WHEEL1 0-360°
			192-222	COLOR WHEEL POSITIVE RAINBOW EFFECT(SPEED 100%->1)
			223-224	STOP
			225-255	COLOR WHEEL REVERSE RAINBOW EFFECT(SPEED 1->100%)
-	-	CH.12	000-255	COLOR WHELL FINE
			ROTATING	GOBO 7+1
			000-010	ROTATING WHITE
			011-018	ROTATING GOBO 1
			019-026	ROTATING GOBO 2
			027-034	ROTATING GOBO 3
			035-042	ROTATING GOBO 4
			043-050	ROTATING GOBO 5
	CH.10 CH.12 CH.13	CH.12 CH.13	051-058	ROTATING GOBO 6
			059-066	ROTATING GOBO 7
			067-074	ROTATING GOBO 1 SHAKE (SPEED 1 —> 100%)
CH.10			075-082	ROTATING GOBO 2 SHAKE (SPEED 1 —> 100%)
			083-090	ROTATING GOBO 3 SHAKE (SPEED 1 —> 100%)
			091-098	ROTATING GOBO 4 SHAKE (SPEED 1 —> 100%)
			099-106	ROTATING GOBO 5 SHAKE (SPEED 1 —> 100%)
			107-114	ROTATING GOBO 6 SHAKE (SPEED 1 —> 100%)
			115-122	ROTATING GOBO 7 SHAKE (SPEED 1 —> 100%)
			123-127	WHITE
			128-190	ROTATING GOBO FLOWING WATER EFFECT (SPEED 100 -> 1%)
			191-192	STOP WATER EFFECT
			193-255	ROTATING GOBO FLOWING WATER EFFECT (SPEED 1> 100%)
			GOBO RO	TATING
			0-120	ROTATING GOBO ANGLE ADJUSTMENT (0> 360°)
			121-125	STOP
			126-165	ROTATING GOBO SHAKE (SPEED 1> 100%)
CH.11	CH.13	CH.14	166-170	STOP
			171-210	ROTATING GOBO POSITIVE ROTATION (SPEED 100% -> 1)
			211-215	STOP
			216-255	ROTATING GOBO REVERSE ROTATION (SPEED 1> 100%)
-	CH.14	CH.15	000-255	GOBO ROTATING FINE
011.42	01.45	01140	FIXED GO	BO 7+1
CH.12	CH.15	CH.16	000-010	WHITE

011-018 FIXED GOBO 1 019-026 FIXED GOBO 2 027-034 FIXED GOBO 3 035-042 FIXED GOBO 4 043-050 FIXED GOBO 5 051-058 FIXED GOBO 6 059-066 FIXED GOBO 7 067-074 FIXED GOBO 1 SHAKE (SPEED 1 -> 100%) 075-082 FIXED GOBO 3 SHAKE (SPEED 1 -> 100%) 083-090 FIXED GOBO 3 SHAKE (SPEED 1 -> 100%)
027-034 FIXED GOBO 3 035-042 FIXED GOBO 4 043-050 FIXED GOBO 5 051-058 FIXED GOBO 6 059-066 FIXED GOBO 7 067-074 FIXED GOBO 1 SHAKE (SPEED 1 -> 100%) 075-082 FIXED GOBO 3 SHAKE (SPEED 1 -> 100%) 083-090 FIXED GOBO 3 SHAKE (SPEED 1 -> 100%)
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075-082 FIXED GOBO 2 SHAKE (SPEED 1> 100%) 083-090 FIXED GOBO 3 SHAKE (SPEED 1> 100%)
083-090 FIXED GOBO 3 SHAKE (SPEED 1> 100%)
091-098 FIXED GOBO 4 SHAKE (SPEED 1 —> 100%)
099-106 FIXED GOBO 5 SHAKE (SPEED 1> 100%)
107-114 FIXED GOBO 6 SHAKE (SPEED 1 —> 100%)
115-122 FIXED GOBO 7 SHAKE (SPEED 1> 100%)
123-127 WHITE
128-190 STATIC GOBO JUMPING WATER EFFECT (SPEED 100 -> 1%)
191-192 STOP WATER EFFECT
193-255 STATIC GOBO FLOWING WATER EFFECT (SPEED 1 —> 100%)
CH.13 CH.16 CH.17 0-255 Insert effect wheel
ANIMATION DISC ROTATION
0-10 WHITE
CH.14 CH.17 CH.18 11-127 Animation Insertion CW Rotate Slow to Fast
128-138 Rotation STOP
139-255 Animation Insertion CCW Rotate Fast to Slow
PRISM
0-10 WHITE
11-145 PRISM INSERT AND ADJUST THE ANGLE (0 -> 360°)
CH.15 CH.18 CH.19 146-150 STOP
151-200 PRISM INSERT AND POSITIVE ROTATION (SPEED 100%> 1)
201-205 STOP ROTATION
206-255 PRISM INSERT AND REVERSE ROTATION (SPEED 1> 100%)
FROST
CH.16 CH.19 CH.20 0-10 NO FUNCTION
11-255 LINEAR CUT (0-100%)
CH.17 CH.20 CH.21 0-255 ZOOM
CH.22 0-255 ZOOM FINE
CH.18 CH.21 CH.23 0-255 FOCUS
CH.24 0-255 FOCUS FINE
CH.19 CH.22 CH.25 AUTO FOCUS
0-12 NO FUNCTION

			13-39	5 METER
			40-66	7 METER
			67-93	9 METER
			94-120	11 METER
			121-147	13 METER
			148-174	15 METER
			175-201	17 METER
			202-228	19 METER
			229-255	21 METER
-	-	CH.26	0-255	AUTO FOCUS FINE
CH.20	CH.23	CH.27	0-255	DIMMER
-	CH.24	CH.28	0-255	DIMMER FINE
			STROBE	
			0-9	NO FUNCTION
			10-99	STROBE (FROM SLOW TO FAST)
CH.21	CH.25	CH.29	100-109	NO FUNCTION
			110-179	LIGHTNING STROBE
			180-189	NO FUNCTION
			190-255	RANDOM SROBE
			CONTROL	(EXECUTE AFTER 3 SECONDS)
			000-010	NO FUNCTION
			011-020	PAN/TILT BLACK ACTIVATED
			021-030	PAN/TILT BLACK DEACTIVATED
			031-040	PAN INVERT
			041-050	TILT INVERT
			051-060	PAN/TILT INVERT OFF
			061-070	STUDIO
			071-080	POWER
			081-100	LIVE
CH.22	CH.26	CH.30	101-110	DIM4
			111-120	DIM3
			121-130	DIM2
			131-140	DIM1
			141-150	DIMO
			151-160	1200Hz
			161-170	2400Hz
			171-180	4000Hz
			181-190	6000Hz
			191-200	25000Hz
			201-210	ALL RESET

211-220	XY RESET
221-230	COLOR SYSTEM RESET
231-240	FOCUS\ZOOM RESET
241-255	FRAMING RESET