

Image B-3

5. Repeat the previous step for each overlapping corner of all stacked rigging frames.



In long-term installations, it is advised to also install swivels between the two projectors in order to make it easier to access the metal air filter on the top of the projector.

94 _______ R5906113 UDX 22/02/2018

GLOSSARY

Broadcast address

Projector will always execute the command coming from a RCU programmed with that broadcast address.

DMX

DMX-512 Lighting protocol over RS-485 interface. Carries information of 512 channels from a lighting controller to lighting devices. Standardized by USITT.

HD

Hazard Distance (HD) is the distance measured from the projection lens at which the intensity or the energy per surface unit becomes lower than the applicable exposure limit on the cornea or on the skin. The light beam is considered (to be) unsafe for exposure if the distance from a person to the light source is less than the HD.

Light processor unit

Heart of the projector, unit inside this projector which is responsible for the creation of the image to be projected on the screen. Also called 'engine'.

Projector address

Address installed in the projector to be individually controlled

RS232

An Electronic Industries Association (EIA) serial digital interface standard specifying the characteristics of the communication path between two devices using either D-SUB 9 pins or D-SUB 25 pins connectors. This standard is used for relatively short-range communications and does not specify balanced control lines. RS-232 is a serial control standard with a set number of conductors, data rate, word length and type of connector to be used. The standard specifies component connection standards with regard to computer interface. It is also called RS-232-C, which is the third version of the RS-232 standard, and is functionally identical to the CCITT V.24 standard. Logical '0' is > + 3V, Logical '1' is < - 3V. The range between -3V and +3V is the transition zone.

RS422

An EIA serial digital interface standard that specifies the electrical characteristics of balanced (differential) voltage, digital interface circuits. This standard is usable over longer distances than RS-232. This signal governs the asynchronous transmission of computer data at speeds of up to 920,000 bits per second. It is also used as the serial port standard for Macintosh computers. When the difference between the 2 lines is < - 0.2V that equals with a logical '0'. When the difference is > +0.2V that equals to a logical '1'...

Scheimpflug principle

The "plane of sharp focus" can be changed so that any plane can be brought into sharp focus. When the DMD plane and lens plane are parallel, the plane of sharp focus will also be parallel to these two planes. If, however, the lens plane is tilted with respect to the DMD plane, the plane of sharp focus will also be tilted according to geometrical and optical properties. The DMD plane, the principal lens plane and the sharp focus plane will intersect in a line below the projector for downward lens tilt.

R5906113 UDX 22/02/2018 _______ 95

96 ______ R5906113 UDX 22/02/2018

INDEX

A	Function 25
Address 25	Button pressed indicator 25 Fuses 29
Program 25	ruses 29
RCU 25	
Air flow 21 Air inlets 21	G
Air outlets 21	General 21
Alignment 30	Download plug-in 21
Table mounted projector 30	Download Projector Toolset 21
• •	General considerations 3
D	Getting started 65, 70
В	Projector address 70
Back cover 80, 82	Terminology overview 65
Mount 82	Getting Started 65 GSM module 57, 61
removal 80	Installation 57, 61
	motanason or, or
C	
Cleaning 75	Н
Exterior 75	Hazard Distance 8, 10-11
Lens 75	Modifying optics 11
Communication 41, 53–54	Hazardous Chemicals 7
DMX 53	High Brightness precautions 8
Introduction 41	Horizontal tilt range 20
RS232 54	How to use 69 RCU 69
RS422 54	Remote control 69
USB port 54	remote control
Communication panel 53 Compliance FCC 57	
Compliance IC 57	l
Configurations 17	Initial inspection 16
Front projection 17	Box content 16
Rear projection 17	Input 41, 44, 48, 51
Connection 29	Introduction 41
Power cable 29	Source 44, 48, 51
Power net 29	Input & Communication 57–58, 6
Cooling liquid circuit warning 5	GSM module 57, 61
Cooling requirements 13	Installation 57, 61
	WiFi module 57–58 Installation 57–58
D	Input & communication unit 41, 43
Dimensions 91–92	Communication board 41, 43
Flight case 92	Installation 43
Projector 91	Removal 41
rigging frame 91	Input board 41, 43
DMX input 53	Installation 43
DMX interface 53	Removal 41
DMX out 53	Installation 16, 33 Lens 33
Download plug-in 21	Projector configurations 16
Download Projector Toolset 21 Dust filter 77	Installation preparations 13
Clean 77	Installation requirements 13–14
Remove 77	Clean air 14
Dust filter, high density 76	Environment conditions 13
Replace 76	Power requirements 14
	Projector weight 14
E	
	L
Enclosed projection 10	Left cover 79, 82
Environment conditions 13 Exterior 75	Mount 82
Cleaning 75	Remove 79
5.5amig 10	Lens 31, 33, 35-36, 75
	Available 31
F	Cleaning 75
Flight case 7, 16	Installation 33
Safety 7	Removal 35
Front cover 79, 81	Scheimpflug 36 Lens installation 33
Mount 81	Lens removal 35
Removal 79	Lens selection 32
Front projection 17	

R5906113 UDX 22/02/2018 _____

Lenses 31–32	Rear projection 10, 17
Lens selection 32	Remote control 69
Local keypad 65	How to use 69
Functionality overview 65	Removal 35, 79–80
Turiotionality overview oo	back cover 80
	Front cover 79
M	Lens 35
	Remove 77, 79–80
Maintenance 75	Dust filter 77
Mechanical check 16	Left cover 79
mini-jack 26	Small top cover 80
RCU 26	Replace 76
Mount 81–82	•
back cover 82	Dust filter, high density 76 RS232 54
Front cover 81	
Left cover 82	RS422 54
small top cover 82	
	S
	3
N	Safety 3–8, 10
Notice on optical radiation 4	Battery explosion 6
Optical radiation 4	Cooling liquid circuit 5
Notice on safety 4	Electrical shock 4
Notice on Salety 4	Fire hazard 6
	Hazard Distance 8, 10
0	Hazardous Chemicals 7
	Important instructions 4
Off axis 19	Personal injury 5
On axis 19	Projector damage 6
Orientations 17	Safety Data Sheet (SDS) 7
Front projection 17	Servicing 7
Rear projection 17	Safety Data Sheet (SDS) 7
	Scheimpflug 36
	Scheimpflug's law 36
P	Serial communication 54
Physical Installation 29	Shift range 19
Positioning 19	Sleeve 26
Power cable 29	RCU 26
Connection 29	Small top cover 80, 82
power net 29	Mount 82
Connection 29	Remove 80
Power off 68	Software update 72
Power on 66	Source 44, 48, 51
Power requirements 14	Input 44, 48, 51
Prevent 4	Specifications 85–89
Electrical shock 4	UDX 4K22 86
	UDX 4K32 85
Product safety labels 7	UDX U32 89
Projector 19	UDX W22 88
Positioning 19 Shift range 19	UDX W32 87
•	Stacking 93
Projector address 70	S .
Controlling 70 Projector configurations 16 17	Standby 68
Projector configurations 16–17	Switch to 68 Status Light 55
Front projection 17	o o
Rear projection 17	Switching off 68 Switching on 66
Projector covers 79	Switching on 66 Switching to standby 68
Projector weight 14	Switching to Standby 66
Pulse RCU 23	
	Т
Q	-
	Table mounted projector 30
Quick setup 71	Alignment 30
	Technical Regulations 92
В	Tilt range 20
R	Horizontal 20
RCU 23–26, 65, 69	Vertical 20
Address 25	
Battery 23	U
Installation 23	U
Functionality overview 65	Unpacking 14
How to use 69	USB port 54
mini-jack 26	User definition 4
Protocol setup 24	
Sleeve 26	
\(\alpha = \begin{array}{c} \alpha \\ \alpha \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	
XLR 25	V
XLR 25 RCU on/off 24	V Vertical tilt range 20

98 ______ R5906113 UDX 22/02/2018

W

Warnings 5
Cooling liquid circuit 5
WiFi module 57–58
Installation 57–58

X

XLR 25 RCU 25