PRODUCT SPECIFICATIONS

LUMINODE 8-IP

Description: **PRELIMINARY -** Technical specifications LumiNode 8-IP - v1.0.0

MADE IN BELGIUM

1. Applications

A weatherproof Ethernet/DMX processor, designed to withstand rough conditions.

The LumiNode 8-IP is a weatherproof Ethernet/DMX processor built to withstand rough conditions. Easy to deploy and maintain, it enables the conversion, routing, and merging of DMX/RDM data on a network. Its robust, IP65-rated aluminium enclosure ensures durability, making it an ideal solution for outdoor AV installations and live performances. Designed for reliable outdoor use, it features passive cooling, a sufficient PoE budget, and resistance to extreme temperatures, rain, splashes, and dust.

Equipped with 2x 1Gb etherCON TOP ports and 8 DMX ports with NC5FDXX-TOP connectors, LumiNode 8-IP offers flexibility in a weather proof package. Each port is fully optically and galvanically isolated and can be configured as an in- or output. All relevant industry standard protocols such as Art-Net, sACN, KiNET, RTTrPL (Blacktrax) are supported and can be processed and converted in no less than 12 onboard process engines supporting HTP, LTP, Crossfade, Backup, Switch and Custom merging modes with soft patch functionality.

LumiNode 8-IP also supports remote device management (RDM), has automatic functional and operational redundancy and recovery to reliably cope with the most challenging lighting tasks. A show recording and play-back mode lets you conveniently store lighting scenes and play these back when triggered to do so. LumiNode 8-IP is efficient and has a low power consumption and can be powered via PoE or via a robust IP rated Neutrik powerCON True1 TOP connector.

LumiNode 8-IP is easy and intuitively to operate. Configuration can be done through a built in web-based user interface or with an NFC compatible smartphone, even when the LumiNode 8-IP is not connecter to power.

The fully documented open API facilitates full integration with any 3rd party control or management system. With its two 1Gigabit ethernet ports, LumiNode 8-IP offers the possibility of an advanced network interface making it possible to separate the lighting network data streams from IT related data, allowing for remote status monitoring and management without interfering with critical lighting control data streams.

Luminode 8-IP with its 1Gbps etherCON TOP connectors is ready for future ethernet-only based lighting networks. Luminode 8-IP features group (VLAN) technology, which allows you to arrive at the Node with an ISL connection, connect the node to the lighting group and use the second Ethernet port for other purposes in another group (for example video control, Dante audio, …).
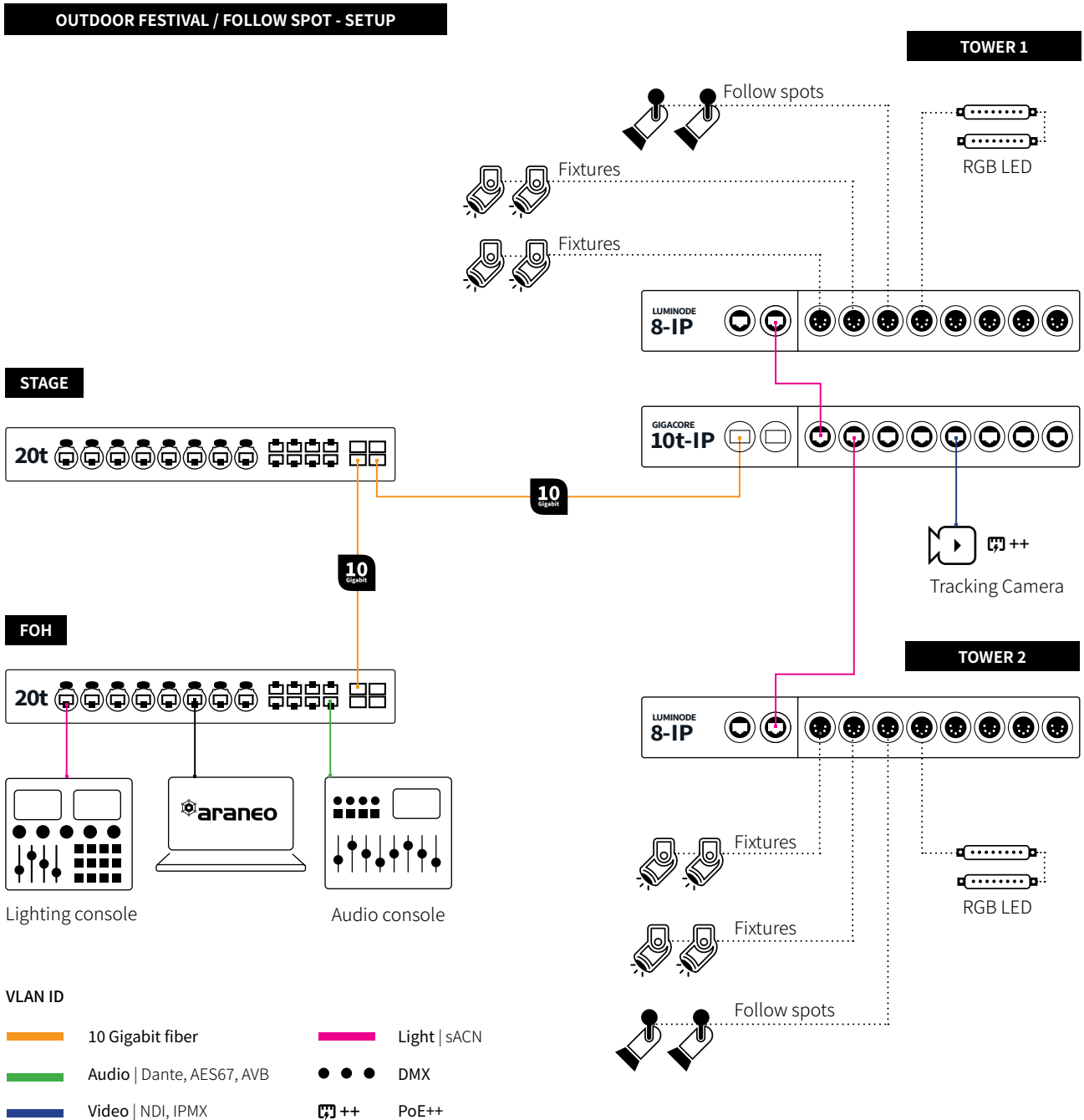
Industries

- Touring & Live entertainment
- Outdoor and harsh temperature conditions
- Cruise ships / Yachts
- Theaters
- Arena / stadium lighting
- Architainment lighting
- Theme parks
- Campuses
- Houses of worship

Ordering information	
Product name:	Part numbers:
LumiNode 8-IP	LU 01 00099

2. Application Diagram

OUTDOOR FESTIVAL / FOLLOW SPOT - SETUP

TOWER 1

Follow spots

Fixtures

Fixtures

RGB LED

LUMINODE 8-IP

STAGE

20t

GIGACORE 10t-IP

10 Gigabit

Tracking Camera

[⚡] ++

10 Gigabit

FOH

20t

Lighting console

araneo

Audio console

TOWER 2

LUMINODE 8-IP

Fixtures

Fixtures

RGB LED

Follow spots

VLAN ID

▬	10 Gigabit fiber	▬	Light | sACN
▬	Audio | Dante, AES67, AVB	● ● ●	DMX
▬	Video | NDI, IPMX	[⚡] ++	PoE++

3. Technical Specifications

CONNECTIVITY	
DMX/RDM	8x Neutrik 5 pin XLR (female) NC5FDXX-TOP connectors
Network	2x shielded IP rated Neutrik etherCON TOP connector
Power	1x Neutrik powerCON TRUE1 TOP
	Ethernet (PoE 802.3af class 0)
DMX FEATURES	
Supported protocols	DMX512 (1986 & 1990)
	DMX512-A
	RDM ANSI E1.20-2010
DMX port direction	Input or output (configurable)
DMX port isolation	Optical and galvanic isolation per port
DMX timing	Frame rate: 10-40fps
	Break: 176-352µs
ETHERNET FEATURES	
Supported protocols	Art-NetTM (1-4)
	sACN ANSI E1.31-2018
	RTTrPL (BlackTraX)
	KiNET v1, v2
Port speed	10/100/1000Mbps
Port sensing	Auto-negotiation
	MDI / MDIX
Split management interface	Yes
Groups (VLAN) support	Yes
ADDITIONAL FEATURES	
Processing engine	12
Merging	Yes (HTP,LTP,X-Fade,Backup,Switch,Custom)
Softpatch	Yes
Master/Limit	Yes
Trigger system	Yes
Reroute function	Yes
Profile manager	Yes
Snapshot	Yes
Monitoring Software	LumiNet Monitor, Araneo
DMX redundancy	Yes
STATUS REPORTING	
Ethernet port connection	link/activity LED
	Group RGB LED
DMX port	DMX/RDM RGB LED
POWER / PoE	
Power input	100-240VAC
	50-60Hz
	PoE-802.3af (Class 0)
Power consumption	Max 13W
Power redundancy	Yes

MANAGEMENT	
Configuration	Built in web server
	Documented web API
	App with NFC compatible smartphone

ENVIRONMENTAL	
Operating temperature	-20 to +60°C
Storage temperature	-40 to +70°C
Humidity(non condensing)	5 to 95% RH

MECHANICAL	
Enclosure	Robust all-aluminium housing - IP65 rated
Dimensions (W x D x H)	281 x 358 x 90 mm (11,06" x 14,09" x 3,54")
Weight	7.2 kg
Mounting type	Truss mount M10 inserts (3x), 10x10 VESA mount inserts, Multiple devices stackable
Packaging	-

APPROVALS	
Electromagnetic emissions and immunity	EN55032 class A
	EN55035
	EN61000-3-2
	EN61000-3-3
	EN61000-4-2
	EN61000-4-4
	EN61000-4-5
	EN61000-4-6
	EN61000-4-8
	EN61000-4-11
	FCC Part 15 CFR 47 class A
	ICES-003 Issue 6
Safety approvals	IEC 62368-1
	EN 62368-1
	UL 62368-1
	CAN/CSA-C22.2 No. 62368-1
	CE
Certificates	cSGSus Mark
	CE
	CB Certificate
IP Rating	65

GREEN	
	RoHS
	REACH

LUMINODE 8-IP

LUMINODE 8-IP

358 mm / 14,09"

281 mm / 11,06"

90 mm / 3,54"

M10 mounting hole

M10 mounting hole

100 mm x 100 mm - M4 VESA mounting holes

M10 mounting hole