



RAVENNA 2020 Webinar Series

Products & Applications: punQtum's Digital Intercom System

**Tue, July 21, 2020
15:00 h (CEST)**

**Arie van den Broek
punQtum**





Arie van den Broek, CEO, punQtum

- Arie has a background as a musician and sound engineer
- ProAudio veteran with a track record in the development of networked audio technologies
- As member of the AES, he helped develop AES67
- Driving force in democratizing sound using open standard technology



PUNQTUM

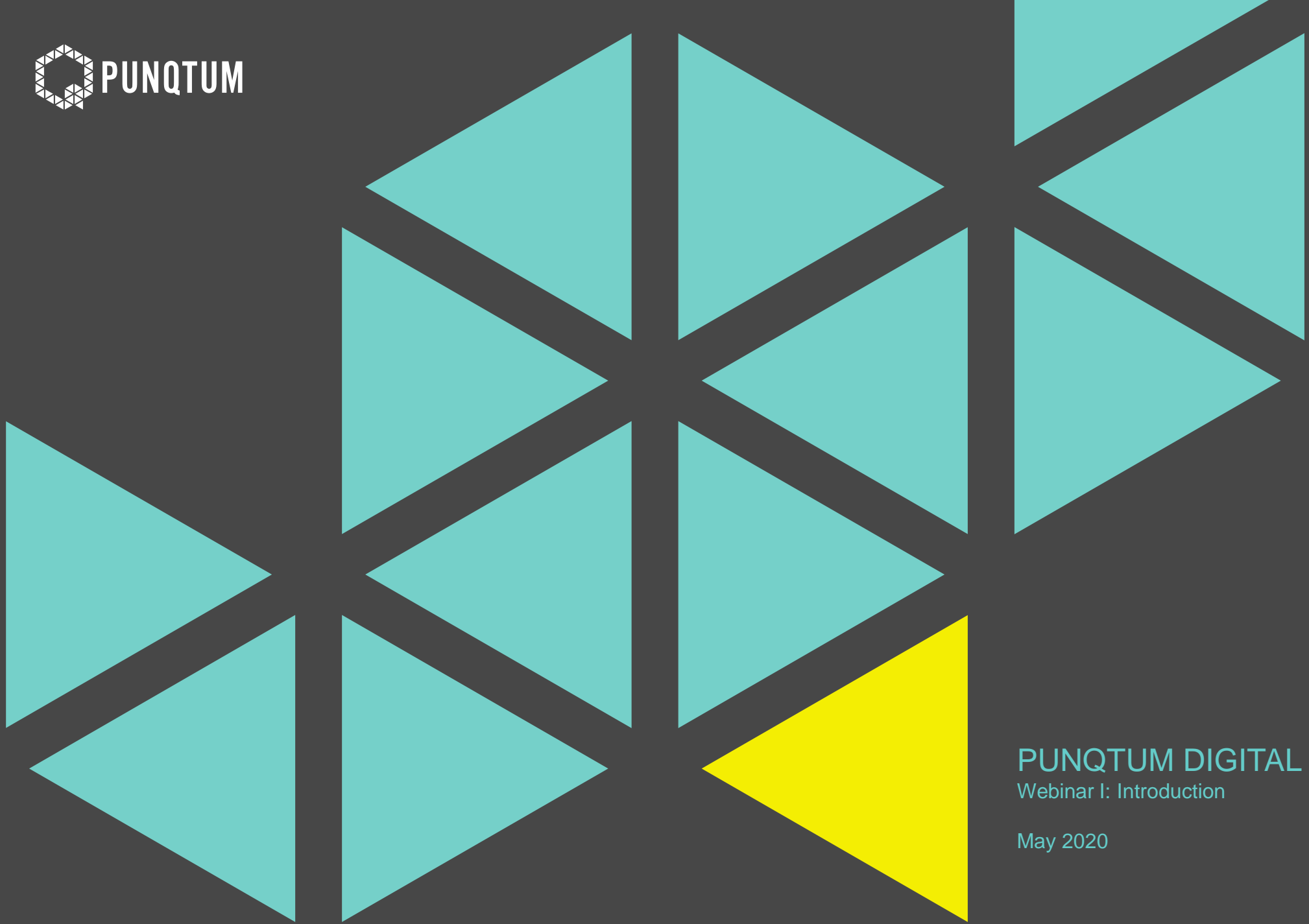
punQtum, Soest, The Netherlands

- Established 2019
- Office in Switzerland & Germany
- AES67-compatible digital intercom systems
- RAVENNA partner since 2019



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PUNQTUM DIGITAL INTERCOM

Webinar I: Introduction

May 2020



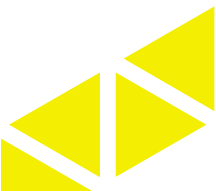
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WHAT WE DO

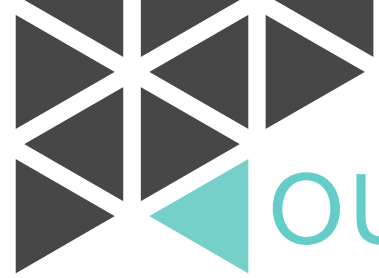
We offer a **network-based** digital intercom system

- ▶ ...that is **easy to use**
- ▶ ...that works **from small to elaborate** team communication systems
- ▶ ...that gives you **all the benefits** of digital technology
- ▶ ...but is **affordable**
- ▶ ...that helps you to further **professionalize** your gig





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OUR TECHNOLOGY STANDARDS



Q-LAN

**AES67
Livewire+**





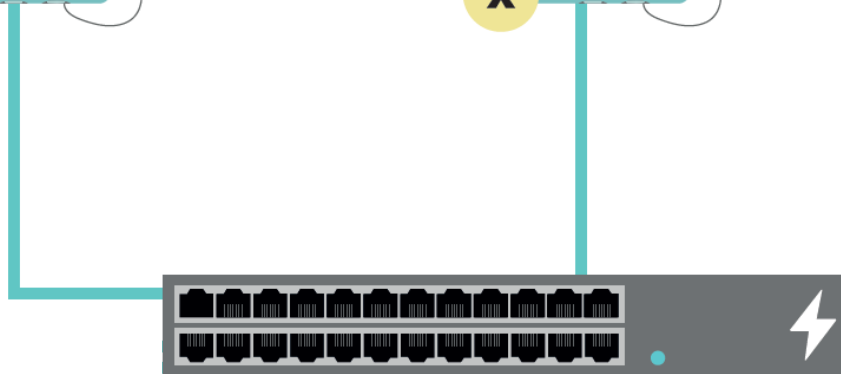
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START SMALL

Sound Operator



Lighting



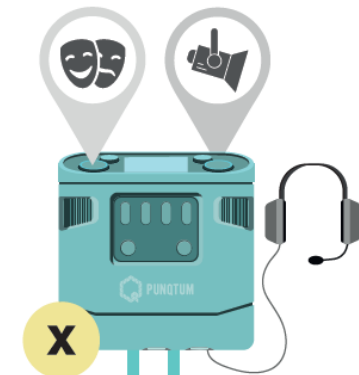
Sound Operator



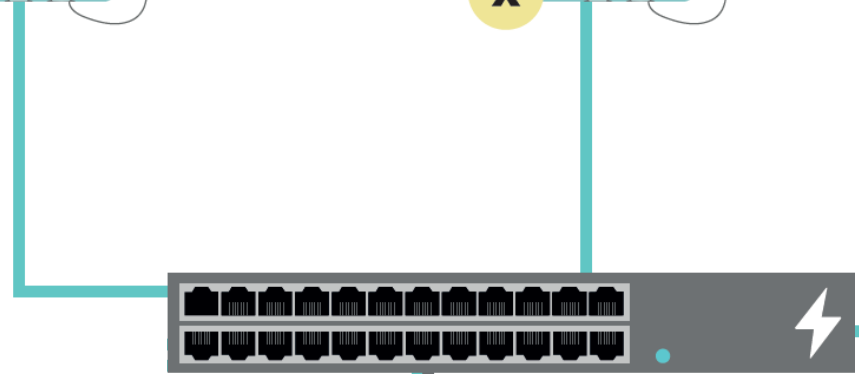
Lighting



Followspot 1



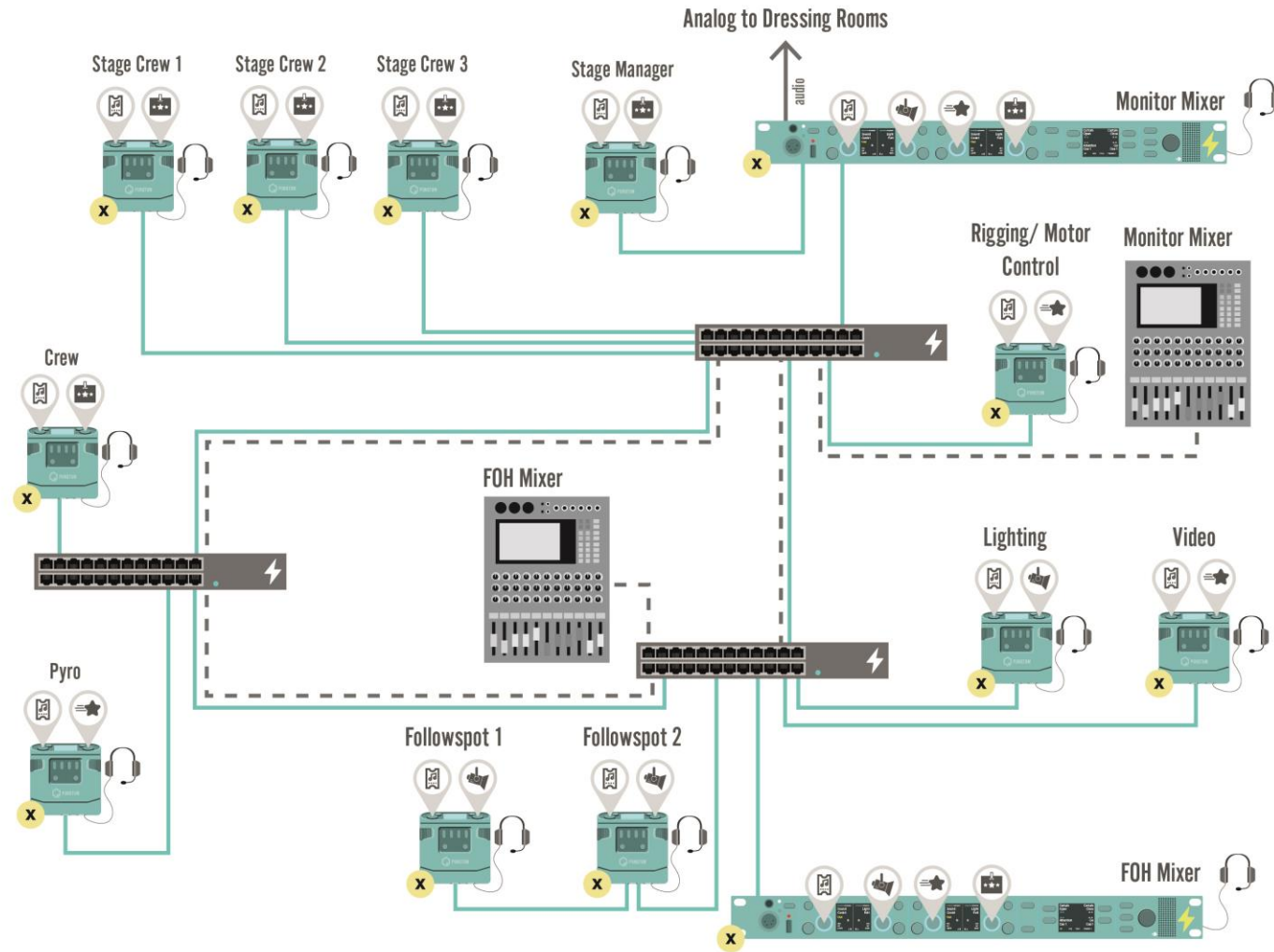
Followspot 2





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...WITH YOUR NEEDS



Key

- ... Audio Feed DANTE™
- Audio Feed Analog
- Audio Feed AES67
- Intercom Feed AES67
- X Program Feed (1 - 8)
- ⚡ Power Over Ethernet

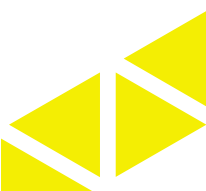




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WHY PUNQTUM DIGITAL INTERCOM

- ▶ Up to 32 partylines (**interference-free**)
- ▶ **Unlimited number of devices** per system
- ▶ **Unlimited systems** in a network
- ▶ **No mandatory masterstation**
- ▶ **Replay function** for repeating of announcements
- ▶ **Freely configurable**, PIN protection for network and role access





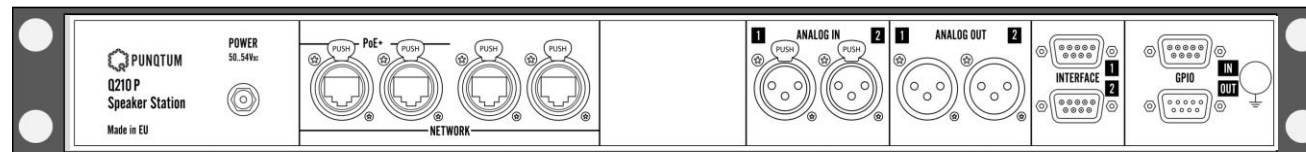
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Q110 – BELTPACK



Q210 P – SPEAKER STATION

- ▶ 4 + 4 CH partylines
- ▶ 4 programmable buttons
- ▶ Built in PoE switch
- ▶ 2 analog audio I/O
- ▶ 2 interface ports & 4 GPI/O
- ▶ Replay function
- ▶ Comms recording
- ▶ PA and “Talk to Many”
- ▶ Program feeds from analog or via AES67 from RAVENNA & Dante networks
- ▶ Public address to analog output or via AES67 to RAVENNA & Dante networks





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Part II

Live Demonstration

(see live recording of webinar)





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Q-TOOL (QUICK OVERVIEW)

Q-TOOL 0.2.021

Arie's show setup

SELECT DEVICES

SYSTEM ASSETS

SYSTEM CONFIG

ROLE & IO CONFIG

GO ONLINE

? PUNQTUM

SPEAKER STATIONS

☒

Use Interface 1

☒

Use Interface 2

☒

Use Analog Inputs

☒

Use Analog Outputs

☐

Use GP Inputs

☐

Use GP Outputs

☐

Use Speaker Station Groups

☐

BELTPACKS

☒

Please select
Device Types
and Interfaces
you plan to use in
your system





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Q-TOOL (QUICK OVERVIEW)

Q-TOOL 0.2.021

Arie's show setup

SELECT DEVICES

SYSTEM ASSETS

SYSTEM CONFIG

ROLE & IO CONFIG

GO ONLINE

?

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ASSETS		Arie's show setup - ASSETS				
	Partylines 5		Sound			Light
	Program Sources 2		pyro			security
	Public Address 1		Stage 2			
	Talk To Many 1		mainstage			2nd Stage
			PA 1			
			TTM 1			





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Q-TOOL (QUICK OVERVIEW)

Q-TOOL 0.2.021

Arie's show setup

SELECT DEVICES SYSTEM ASSETS SYSTEM CONFIG ROLE & IO CONFIG GO ONLINE

DEVICE ROLES

- + Speaker Stations 2
- + Beltpacks 3

DEVICE I/O SETTINGS

- + Speaker Stations 0
- + Beltpacks 1

DEVICE ROLES - SPEAKERSTATIONS

- admin role
- SpeakerStation

ADMIN ROLE

SETTINGS KEY SETS

Lock Frontpanel	OFF	Display Brightness	LOW MEDIUM HIGH
Lock Frontpanel PIN	0 0 0 0	Dark Screen Saver	OFF
User can change Role	ON	Program Source	mainstage
User can change Mic Settings	ON	IFB DIM	dB -12
User can change Program Source	ON	Default Role	ON
User can change Display Settings	ON	Role Priority	MIN MEDIUM MAX
User can change I/O Settings	ON		



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Part III

Competition / Positioning

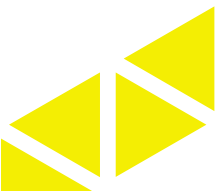




PUNQTUM GOALS

In any configuration punQtum

- 1) offers the **best feature set** for the price
- 2) provides an **unbeatable** alternative to analog systems
- 3) offers the **most affordable** alternative to competing digital intercom systems





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WHAT DOES IT COST?



Q110 - Beltpack

2 channels,
PoE powered,
daisy-chainable

599 €

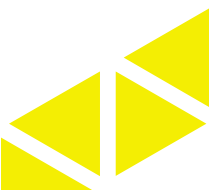


Q210 P - Speaker Station

4+4 CH speaker station with built in PoE switch,
2 analog IN/OUT,
2 interfaces and GPIO

1,699 €

* Accessories (e.g. Headsets and Gooseneck mic) are available from the webstore





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DID WE SUCCEED?

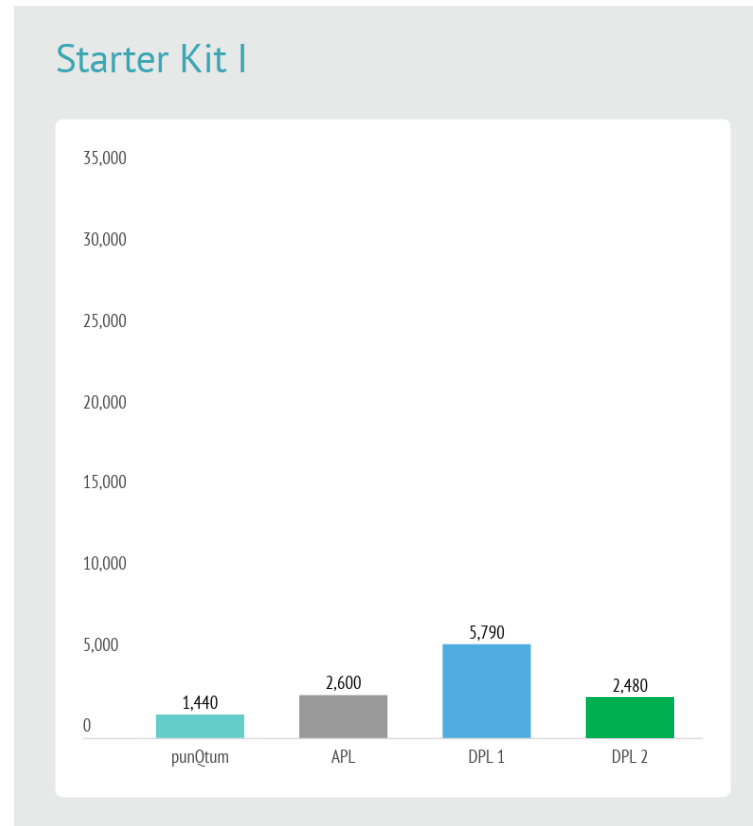
Let's compare system costs





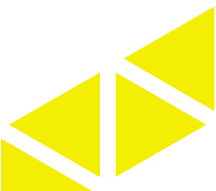
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MOST BASIC STARTER KIT



2 backpacks + PoE switch

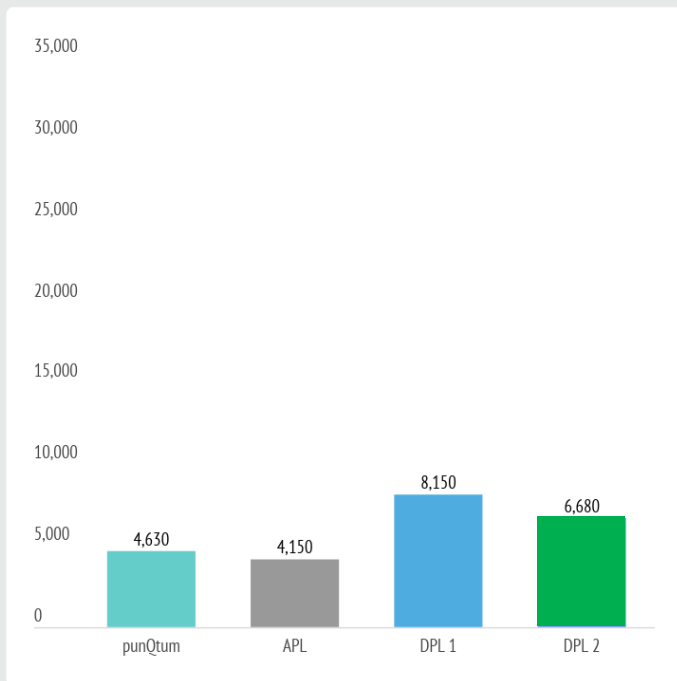
In **comparison to analog**, at comparable cost, punQtum gives users **many more features and benefits.**





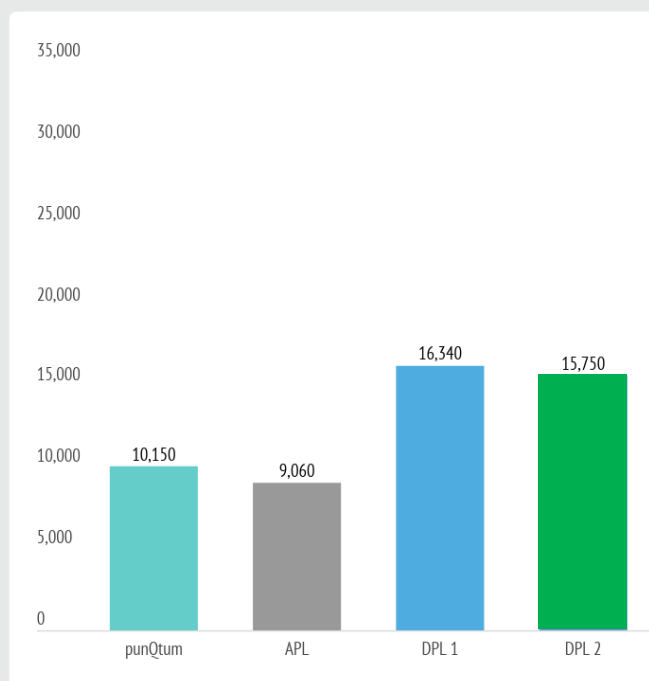
LIVE EVENTS SYSTEMS

Entry System I



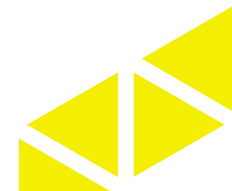
1 masterstation + 4 beltpacks

Entry System II

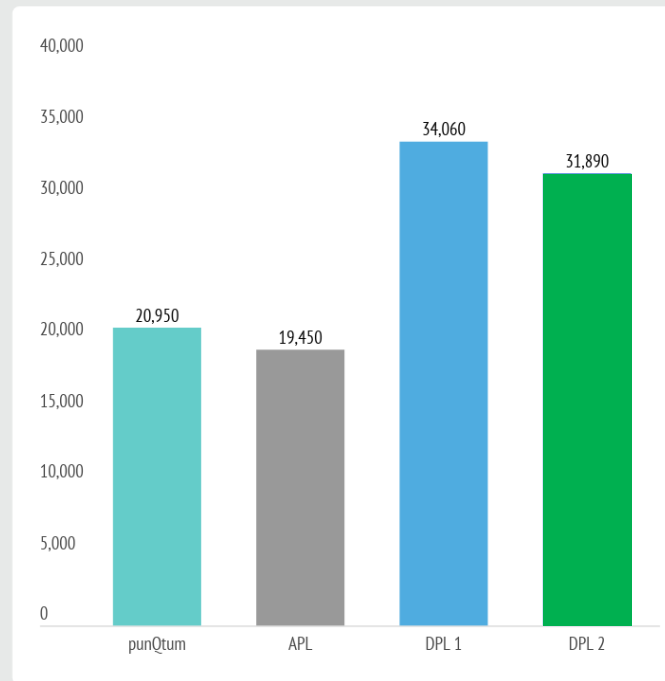


2 masterstations + 12 beltpacks

In **comparison to analog**, at comparable cost, punQtum gives users **many more features and benefits.**

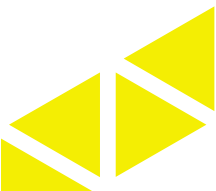


Theater System



2 masterstations, 3 remote stations,
18 beltpacks, 2 line isolators,
5 intercom line splitters

In **comparison to analog**, at comparable cost, punQtum gives users **many more features and benefits.**





See you soon!

Any time at



Questions?



More answers...



RAVENNA / AES67 / SMPTE ST 2110 Resources:



www.ravenna-network.com/resources



You've made it!

Contact information:

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