

# Pros and Cons Of SM PTE 2110





# CONFIGURATION COMPLEXITY



## SDI

Almost nothing is configurable

One Video essence

16 Channels of Audio

VANC / HANC

## 2110

Everything needs to be configured.

Media Network switch ports

Unicast Address

Multicast addresses

Video

Audio

Metadata

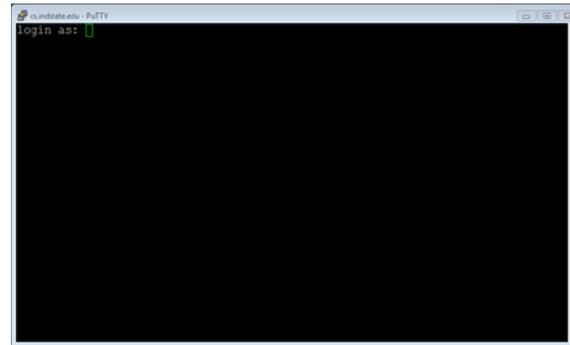


# TESTING and TROUBLESHOOTING

## SDI



## 2110



# TESTING and TROUBLESHOOTING



## SDI

Very Physical

Simple patching easily taught

More difficult to perform remotely without advanced systems in place.



## 2110

Very abstract

Command line tools need more training and NOT for every user.

As long as physical connections are correct, remote troubleshooting is very common

# DENSITY

**SDI**

**288 signals**



**2110**

**2688 signals**



# DENSITY



## SDI

One signal per cable  
(uncompressed)

Lower density of failure points,  
but often requires more  
equipment



## 2110

100G fiber connection could  
have 32 signals on a duplex or  
MPO connection

Higher density of failure points -  
reduces cable tray  
requirements, but increases the  
importance of redundancy

# DOCUMENTED SPECIFICATIONS

## SDI

- (HD) 1080i 50, 59.94, 60
- (HD) 1080p 23.98, 24, 25, 29.97, 30
- (HD) 720p 50, 59.94, 60
- (SD) 625i, 525i

- SMPTE-259/274/292/296 SD/HD-SDI, 1 x BNC

- HDMI with embedded audio, 24-bit (selectable by internal jumper: 2 or 8-Channels)
- Audio, 2-Channel RCA style outputs at -10dBu (nominal), Channel 1 and 2
- 1 Looping SD/HD-SDI output of the SDI input (75 ohm, unterminated)

- Standard Type A connector
- Video:
  - 8-bit RGB 4:4:4 or 10-bit YCbCr 4:2:2 (selectable by internal jumper)
- Audio:
  - 24-bit, with 2 or 8 embedded channels (selectable by internal jumper)

- The H5 does not encode the HDMI output with HDCP encryption. By definition, SD/HD-SDI inputs to the H5 are unencrypted. The HDMI specification requires HDMI monitors to support unencrypted inputs.

- 4.6" x 2.4" x 1" (117mm x 61mm x 25mm)

## 2110



**CONTACT US**

“IT  
DEPENDS”

# 2110 UNIQUE CHALLENGES

- ◎ AUDIO - multiple standards - channel choices
- ◎ NOT All formats are always supported 720P - 1080P
- ◎ Installation can be much quicker, but much more time is required for testing

# 2110 UNIQUE CHALLENGES

- ◎ 2022-7 Sometimes not all signals are redundant
- ◎ Currently not all devices implement the same control protocols (ember +, API, IS-04/05)
- ◎ Installation can be much quicker, but much more time is required for testing

# 2110 UNIQUE ADVANTAGES

- ◎ REMOTE Configuration is easy
- ◎ Complex workflows can be achieved since EVERYTHING can be on the same router
  - Video, Audio, Intercom, Eventually Tally
- ◎ Installation can be much quicker, but much more time is required for testing

# 2110 UNIQUE ADVANTAGES

- ◎ Eventually Hardware will be more IP specific / more VM based
- ◎ Complex workflows can be achieved since EVERYTHING can be on the same router
- ◎ Eventually licensing and products could move to OpEX vs CapEX

# 2110 UNIQUE ADVANTAGES

A decorative network diagram in the top right corner, consisting of various sized circles (nodes) connected by thin lines (edges). Some nodes are solid grey, while others are hollow white with a grey border. The connections form a complex, interconnected web.

- ◎ Eventually licensing and products could move to OpEX vs CapEX
- ◎ Installation can be much quicker, yet much more time is required for testing