



SCIENCE IMAGE
PRODUCT
FAMILY

CATALOG

2024



FLOW EDGE

Vela Rack Shelf

STUDIO EDGE

STUDIO SHELF

NDI HD mini

STUDIO 2

FLOW 2

Vela Rack SDI

Vela Rack HDMI

Make Better

CONTENTS

- 01 High Band-Width NDI Series
- 02 CONVERTER
- 03 MULTI-PROTOCOL
- 04 SOFTWARE
- 05 ACCESSORIES

01

High Band-Width NDI Series

ENCODER & DECODER

High Band-Width NDI Encoder&Decoder Series

Providing users with excellent AV experience

NDI® 6



NDI HD mini

STUDIO 2

STUDIO EDGE

NDI HD MINI

Multi-Function NDI Codec
Converter & NDI encoding/decoding

- ① 3G-SDI/HDMI Converter
- ② HDMI in supporting 4K30 Encoding
- ③ High Band-Width NDI Encoder/Decoder
- ④ Audio Em-bedded / De-embedded / Intercom
- ⑤ support ARRI/RED Metadata transport from NDI

NDI® 6

3G-SDI/HDMI 4K30

Technical Parameter

SDI Vide Sampling	4:2:2	4:4:4
SDI audio sampling TV standard sampling rate	48kHz	
SDI color accuracy	4:2:2	4:4:4
SDI color space	REC 601	REC709
HDMI color accuracy	REC 601	REC709
HDMI color space	YUV 4:2:2	RGB 4:4:4



STUDIO-2

Multi-Function NDI Codec

UpDownCross Converter & Optical Transceiver & NDI encoding/decoding

- ① 12G-SDI/HDMI 4K60 Optical Transceiver
- ② 12G-SDI/HDMI 4K60 UpDownCross Converter
- ③ High Band-Width NDI Encoder/Decoder
- ④ Encode/UpDownCross/Optical working simultaneously
- ⑤ Audio Embedded/De-embedded/Intercom/Mixer
- ⑥ Scroll wheel and Web UI to set

NDI® 6

12G-SDI/HDMI 4K60



Support at least 1849 formats of UpDown Conversion (More formats will be supported...)

4KDCIp60	4KDCIp59.94	4KDCIp50	4KDCIp30	4KDCIp29.97	4KDCIp25	4KDCIp24	4KDCIp23.98
2160p60	2160p59.94	2160p50	2160p30	2160p29.97	2160p25	2160p24	2160p23.98
2KDCIp60	2KDCIp59.94	2KDCIp50	2KDCIp30	2KDCIp29.97	2KDCIp25	2KDCIp24	2KDCIp23.98
1080p60	1080p59.94	1080p50	1080p30	1080p29.97	1080p25	1080p24	1080p23.98
1080i60	1080i59.94	1080i50	720p60	720p59.94	720p50	Auto	

STUDIO EDGE

Rack-Mounted Multi-Function NDI Codec

UpDownCross Converter & Optical Transceiver & NDI encoding/decoding conversions

- ① 12G-SDI/HDMI 4K60 Optical Transceiver
- ② 12G-SDI/HDMI 4K60 UpDownCross Converter
- ③ High Band-Width NDI Encoder/Decoder
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NDI® 6



Channel 1-6
12G-SDI/HDMI 4K60

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4KDCIp60	4KDCIp59.94	4KDCIp50	4KDCIp30	4KDCIp29.97	4KDCIp25	4KDCIp24	4KDCIp23.98
2160p60	2160p59.94	2160p50	2160p30	2160p29.97	2160p25	2160p24	2160p23.98
2KDCIp60	2KDCIp59.94	2KDCIp50	2KDCIp30	2KDCIp29.97	2KDCIp25	2KDCIp24	2KDCIp23.98
1080p60	1080p59.94	1080p50	1080p30	1080p29.97	1080p25	1080p24	1080p23.98
1080i60	1080i59.94	1080i50	720p60	720p59.94	720p50	Auto	

STUDIO EDGE

Rack-Mounted Multi-Function NDI Codec

UpDownCross Converter & Optical Transceiver & NDI encoding/decoding conversions



Channel 1-6



1 Channel



2 Channels



3 Channels



4 Channels



5 Channels



6 Channels

02

Converter

FLOW-2

12G-SDI/HDMI 4K60 Converter
UpDownCross Converter & Optical Transceiver

- ① 12G-SDI/HDMI 4K60 Optical Transceiver
- ② 12G-SDI/HDMI 4K60 UpDownCross Converter
- ③ UpDownCross/Optical working simultaneously
- ④ Audio Embedded/De-embedded/Intercom/Mixer
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1080p60	1080p59.94	1080p50	1080p30	1080p29.97	1080p25	1080p24	1080p23.98
1080i60	1080i59.94	1080i50	720p60	720p59.94	720p50	Auto	

FLOW EDGE

12G-SDI/HDMI 4K60 Converter
UpDownCross Converter & Optical Transceiver

- ① 12G-SDI/HDMI 4K60 Optical Transceiver
- ② 12G-SDI/HDMI 4K60 UpDownCross Converter
- ③ UpDownCross/Optical working simultaneously
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FLOW EDGE

12G-SDI/HDMI 4K60 Converter
UpDownCross Converter & Optical Transceiver



Channel 1-6



1 Channel



2 Channels



3 Channels



4 Channels



5 Channels



6 Channels

03

Multi-Protocol

Streaming & Recoder

VELA RACK SDI

Muli-Function Video Recorder

Multi-Protocol Encode/Decode/SSD Record/Return/Live/Intercom/Optical...

- ① 12G-SDI Video Recorder
- ② 12G-SDI Optical Transceiver
- ③ High Band-Width NDI Encoder/Decoder
- ④ 3.4" Flipping Touch Screen
- ⑤ 12G-SDI Input/Loop Out / HDMI Return Out
- ⑥ Desktop/Camera Head/Rack Flexible Combination of Application

NDI® 6



- ⑦ Software Remote Control
- ⑧ Support RTMP/RTSP/SRT/Full NDI/HX2/HX3...10bit/422/444 Encode/Decode
- ⑨ Encoding / Decoding / optical transmission Concurrent
- ⑩ Multi-Protocol Encode/Decode/Return/Intercom/Optical Transceiver/SSD Record/POE/Audio Embedded/De-embedded...Muli-Function in one Box

...

VELA RACK HDMI

Multi-Function Video Recorder

Multi-Protocol Encode/Decode/SSD Record/Return/Live/Intercom/Optical...

- ① HDMI 4K60 Video Recorder
- ② HDMI 4K60 Optical Transceiver
- ③ High Band-Width NDI Encoder/Decoder
- ④ 3.4" Flipping Touch Screen
- ⑤ HDMI 2.0 Input/Loop Out / HDMI Return Out
- ⑥ Desktop/Camera Head/Rack Flexible Combination of Application

NDI® 6



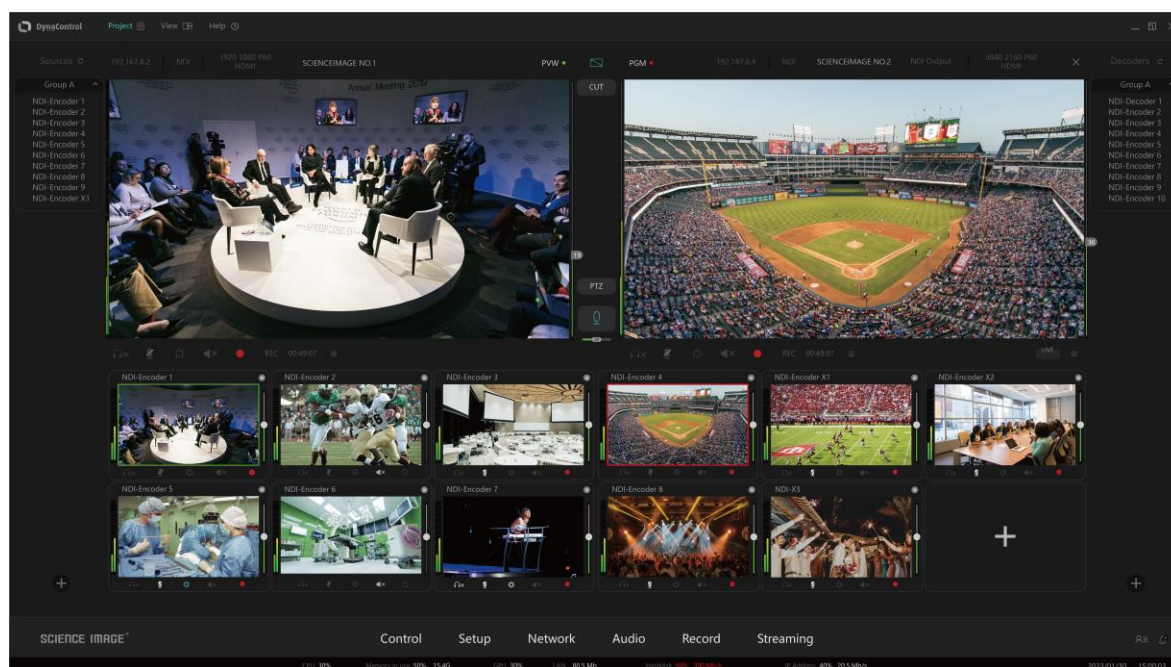
- ⑦ Software Remote Control
- ⑧ Support RTMP/RTSP/SRT/Full NDI/HX2/HX3...10bit/422/444 Encode/Decode
- ⑨ Encoding / Decoding / optical transmission Concurrent
- ⑩ Multi-Protocol Encode/Decode/Return/Intercom/Optical Transceiver/SSD Record/POE/Audio Embedded/De-embedded...Multi-Function in one Box

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04

Software

DYNA-CONTROL

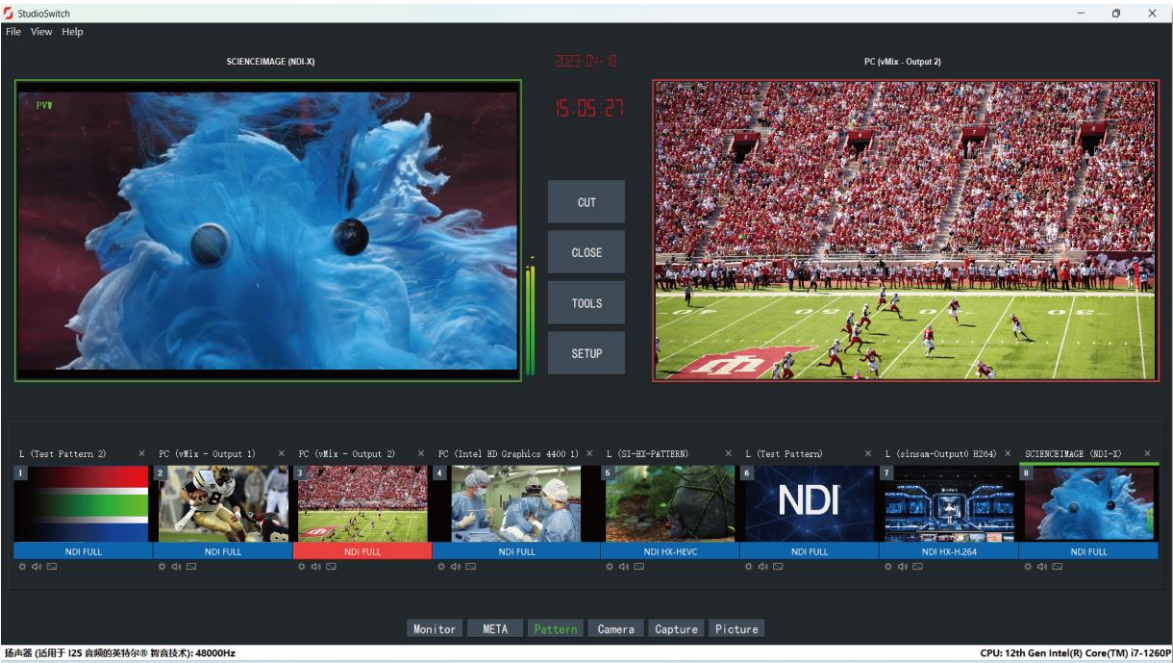


IP Video System Management

Technical Parameter		
Encoder Group	Main Setup Bar	Recorder Control
PVW/PGM Cut	Decoder Group	Audio Mixer
Recording	PTZ Control	

NDI Control / Multiview / Recorder / Intercom / Router / Distribute /
Transcode / Switcher / PTZ...

STUDIOSWITCH



🏠 Engine ↔ Switcher 👁 NDI Multiview

Multiview / Switcher / Router / Capture / Camera / Pattern / Monitoring

Monitor	PGM	Monitor: BandWidth & FrameMonitor
CUT: Switching	TOOLS: NDI Tools	META: Metadata Monitor
Media: Media File Streaming	CLOSE: PGM closing	SETUP: Main Function Set
Picture: Pictures Streaming	Pattern: Pattern Output	Capture: Desktop Windows Capture

05

Accessories

ACCESSORIES



Vela Rack Shelf

Adapted to Vela Rack series
1U standard Rack
Design Vela Rack
HDMI/SDI

Support 3 Vela Series boxes
DC-12V Power Output of Each Channel



Studio Shelf

Adapted to NDI HD mini, NDI Studio 4K-SH, FLOW 4K, STUDIO 2, FLOW 2

Different models can be randomly assembled.



T1
(12G-SDI Optical Module)

12G-SDI SFP optical transceiver integrated module,

Suitable for the NDI/Studio 4K / Studio 2 / FLOW 4K / FLOW 2 / Vela Rack series



S1
Bracket

Suitable for NDI HD mini / NDI Studio 4K-SH / Studio 2 / FLOW 4K / FLOW 2 / Vela Rack series



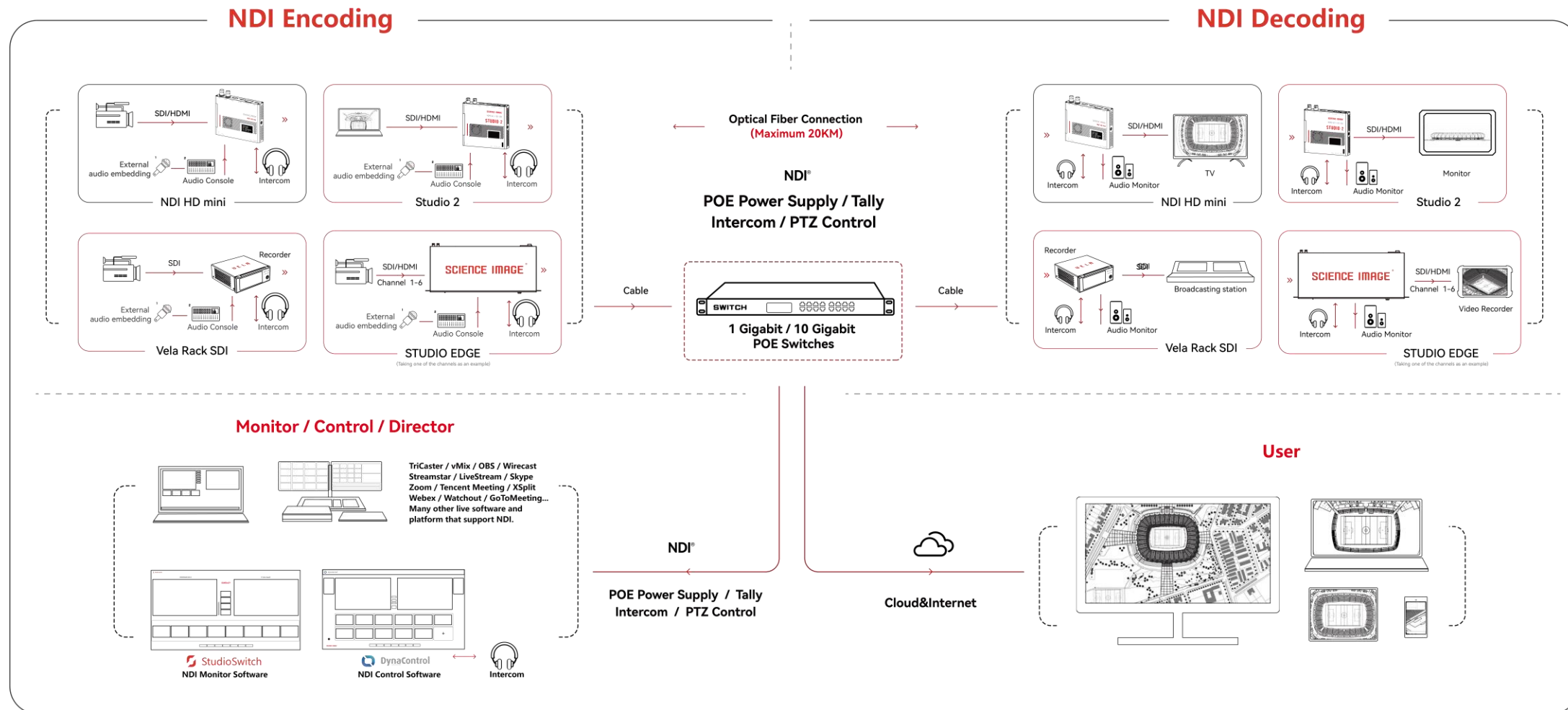
CI

SSD Dock
Suitable for Vela Rack series
Support NVMe SSD series
Replaceable SSD hard drive

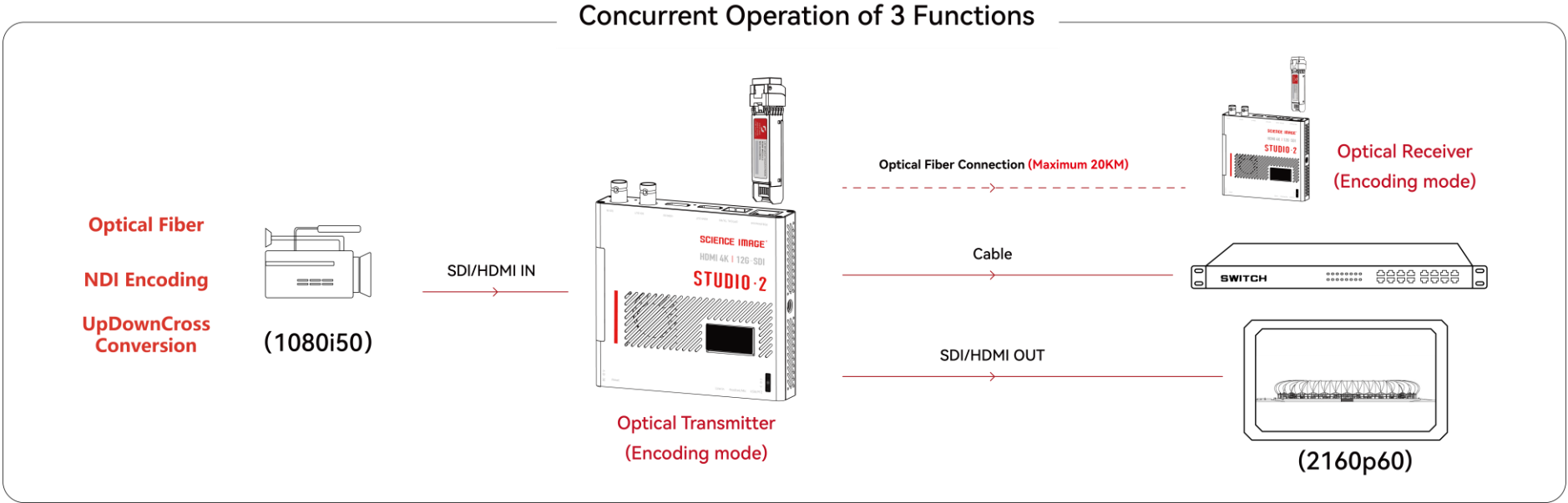


C2

SSD Dock
Support NVMe SSD series,
Replaceable SSD hard drive

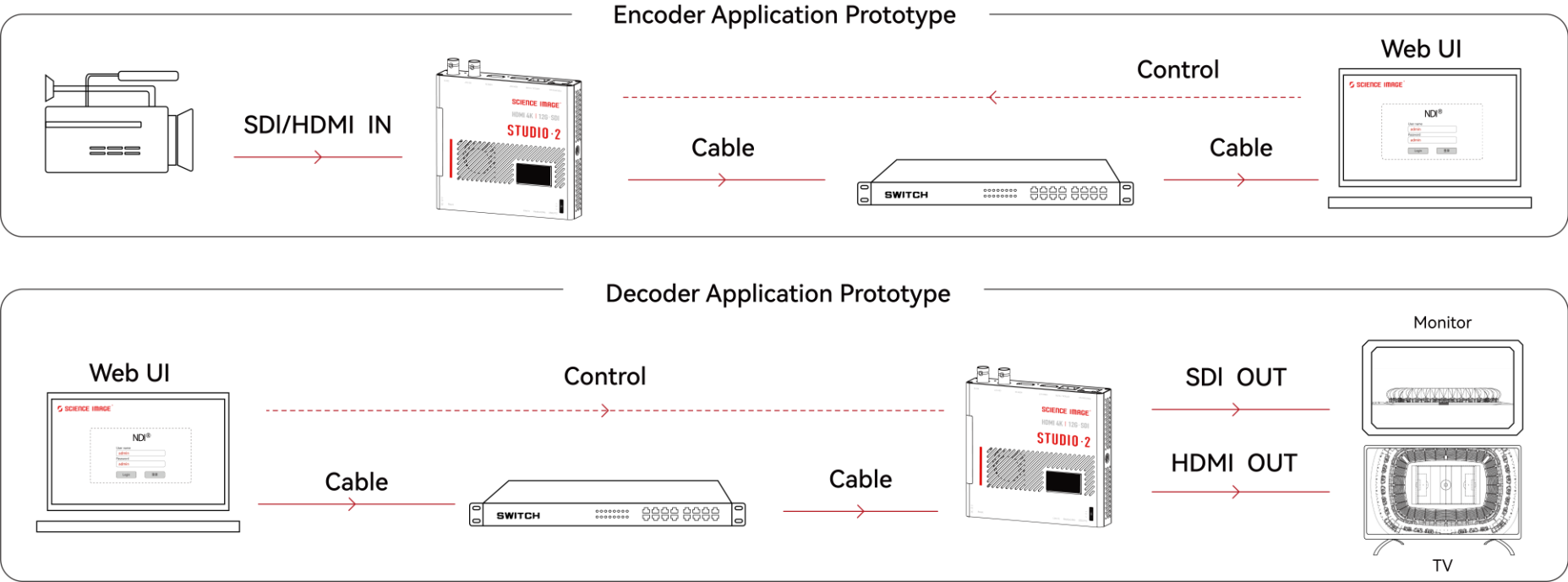


FULL NDI Encoding / UpDownCross Conversion / Optical Transmitting & Receiving



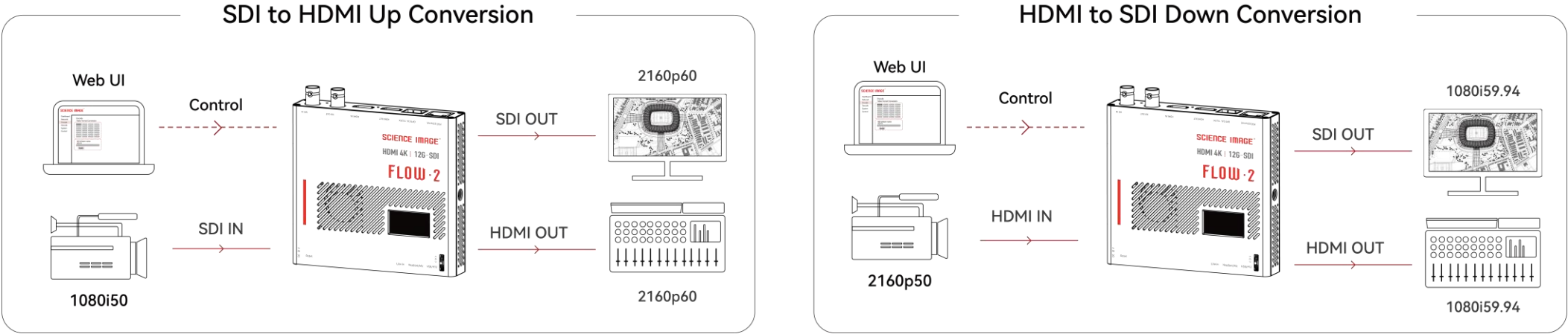
STUDIO 2	High Band-Width NDI Encoder UpDownCross Conversion Optical Transceiver NDI 6
STUDIO EDGE	High Band-Width NDI Encoder UpDownCross Conversion Optical Transceiver NDI 6

FULL NDI Encoder/Decoder Topology



NDI HD mini	High Band-Width NDI Encoder & Decoder 3G-SDI /HDMI 4K30 NDI 6	TriCaster / vMix / OBS / Wirecast / Streamstar LiveStream / Skype / Zoom / Tencent Meeting / XSplit / Webex / Watchout / GoToMeeting... Many other live software and platform that support NDI.
STUDIO 2	High Band-Width NDI Encoder UpDownCross Conversion Optical Transceiver NDI 6	

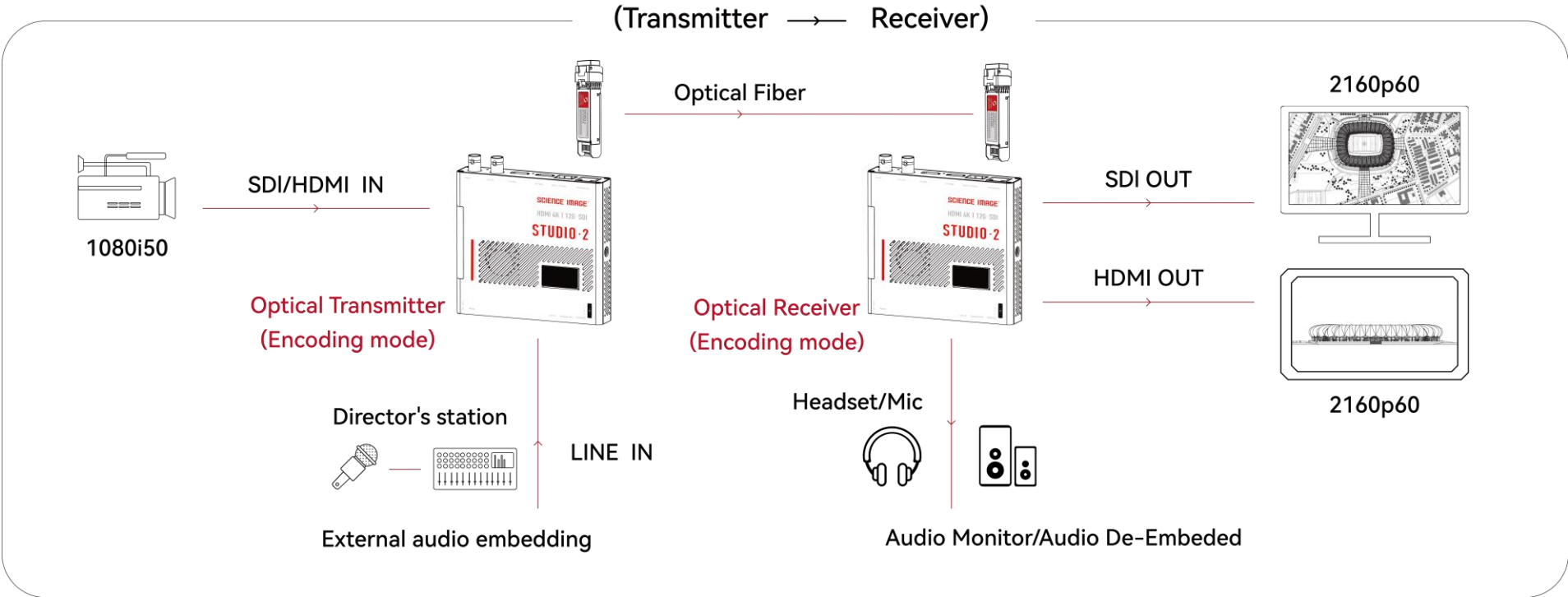
4K UpDownCross Conversion



(User could select any output formats using Web UI Studio 2 supports at least 1849 SMPTE standard formats.)

STUDIO 2	High Band-Width NDI Encoder UpDownCross Conversion Optical Transceiver NDI 6
FLOW 2	UpDownCross Conversion Optical Transceiver 12G-SDI/HDMI 4K60

UpDownCross Conversion and Optical Transceiver Application



Users can also change the STUDIO 2 status from Transmitter to Receiver (or Receiver to Transmitter) in the web UI, reconnect the input and output devices, and realize the reverse optical transmission function.

STUDIO 2	High Band-Width NDI Encoder UpDownCross Conversion Optical Transceiver NDI 6
FLOW 2	UpDownCross Conversion Optical Transceiver 12G-SDI/HDMI 4K60

Development Philosophy

Best Quality in the world



Stable design



Exquisite
manufacturing
processes



0 maintenance

Trustworthy Service



Quick
response



No cheat

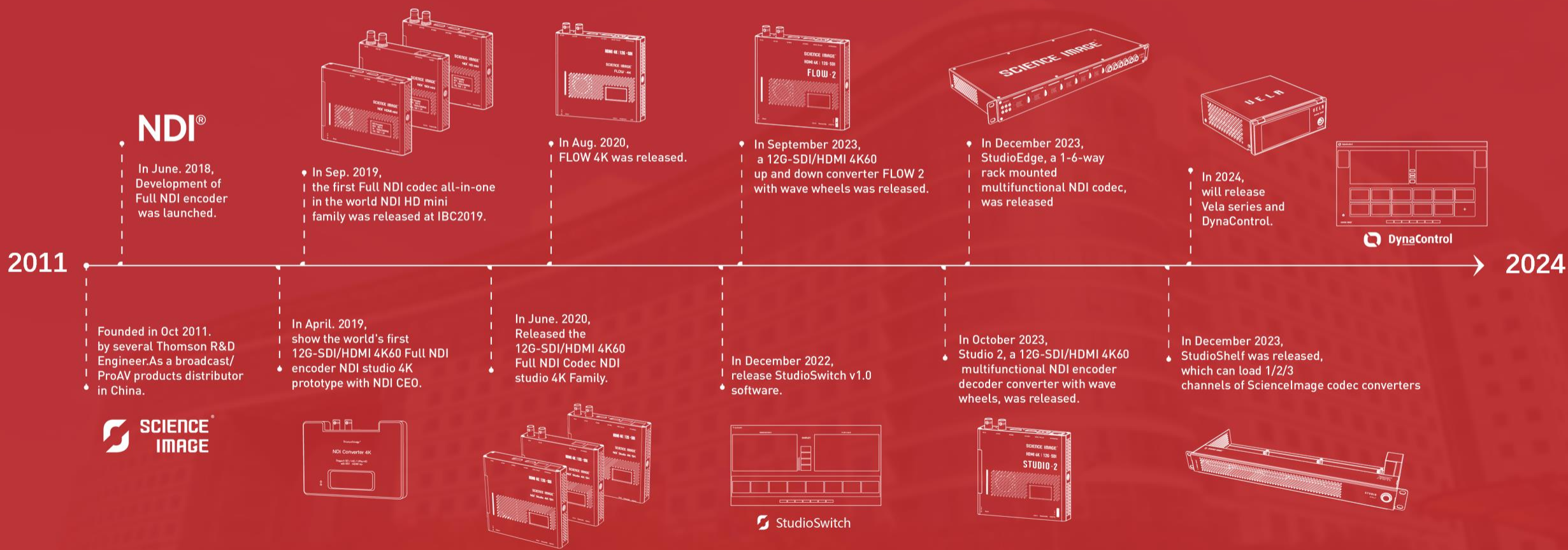


One-on-one
service



Instant
service

R&D History of SciencelImage



Customer List



SOME CUSTOMERS AND APPLICATIONS

Make Better !