

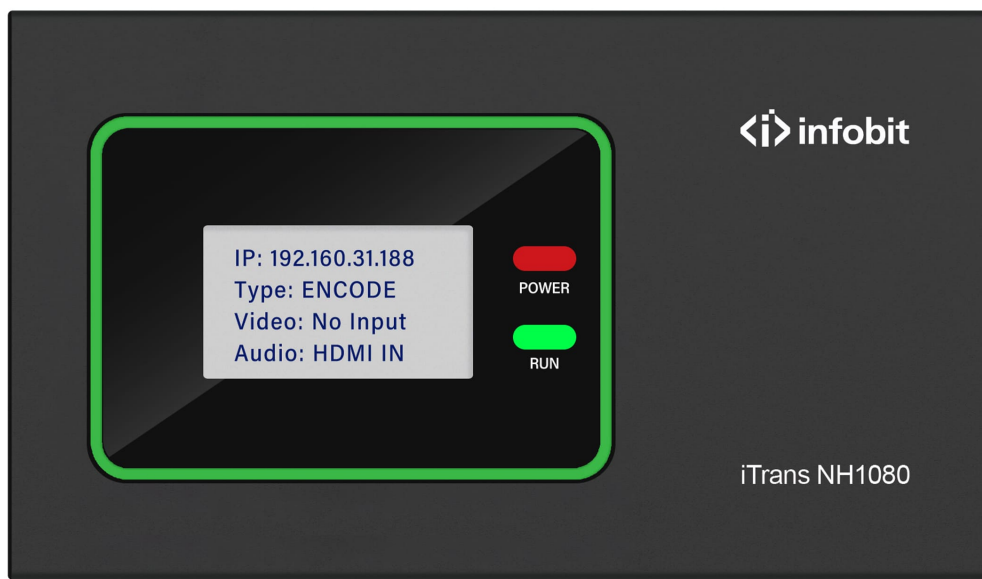
iTrans NH1080

HDMI 1080P Full NDI Encoder/ Decoder

Encoder: HDMI to NDI

Decoder: NDI to HDMI

Datasheet V1.1



CONTENTS

1. INTRODUCTION	3
2. FEATURES & SPECS	3
2.1 FEATURES	3
2.2 SPECS	3
3. INTERFACES	5
3.1 TOP PANEL	5
3.2 RIGHT-SIDE PANEL	6
3.3 LEFT-SIDE PANEL	7
3.4 BOTTOM-SIDE PANEL	7
3.5 BACK-SIDE PANEL	8
4. DIAGRAM	9

1. INTRODUCTION

The **iTrans NH1080** is FULL NDI1080P Encoder / decoder which is integrated with NDI SDK, compatible with all FULL NDI products. It can be used as a HDMI TO FULL NDI encoder or FULL NDI TO HDMI decoder (Selectable through Web GUI interface).

2. FEATURES & SPECS

2.1 FEATURES

- Support FULL NDI, codec
- Encoder and Decoder all-in-one design.
- The encoder supports the HDMI loop out
- The HDMI input resolution is as 1080P/60, 1080P/59.94, 1080P/50, 1080P/30, 1080P/29.97, 1080P/25, 1080P/24, 720P/60, 720P/50
- Support PoE power supply
- Support PTZ camera control
- Support TALLY light display
- Support audio embedding and de-embedding
- Can be configured via the WEB GUI
- Support Multicast

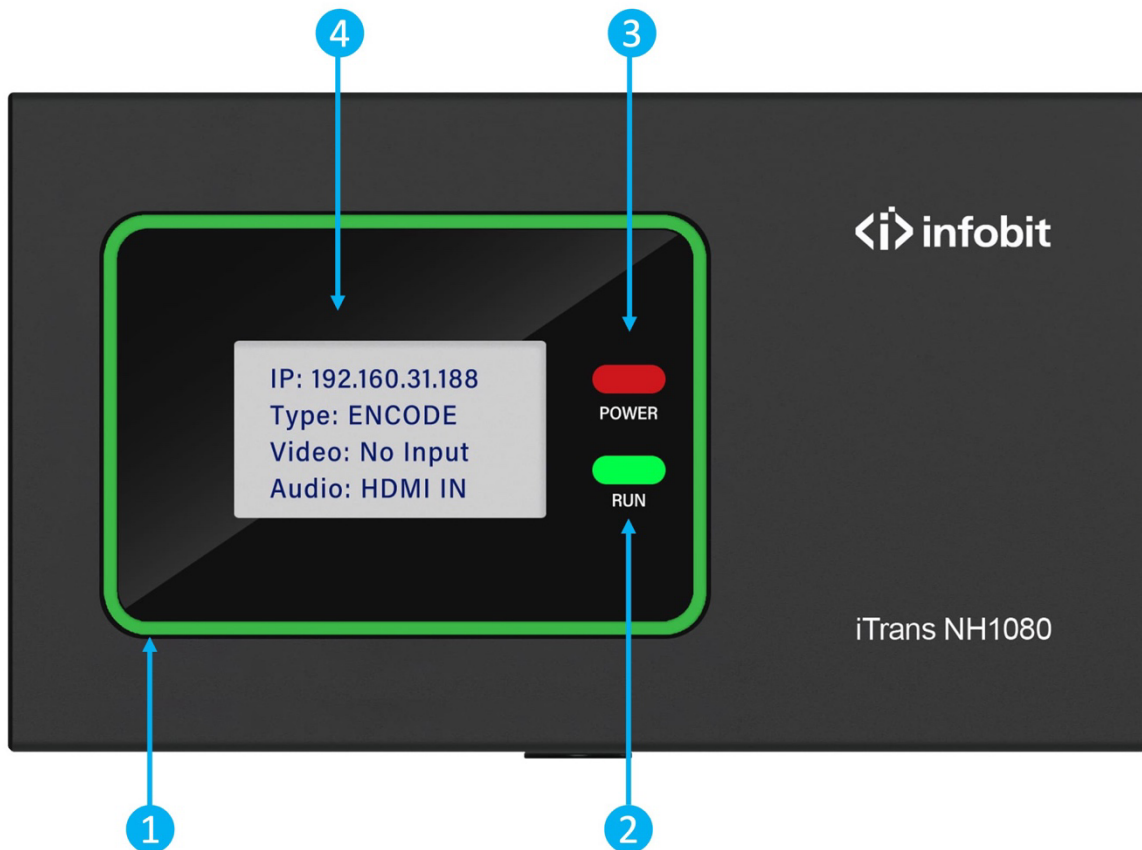
2.2 SPECS

Model	iTrans NH1080
Name	HDMI 1080P Full NDI Encoder/ Decoder
Encoder	HDMI to NDI
Decoder	NDI to HDMI
NDI Type	1080p Full NDI

HDMI IN resolution	1080P/60, 1080P/59.94, 1080P/50, 1080P/30, 1080P/29.97, 1080P/25, 1080P/24, 720P/60, 720P/50
Tally Light	Yes
PTZ Camera Control	Yes
Power Supply	DC 12V 1A or PoE
Web GUI	Yes
Audio embed	Yes
Audio de-embed	Yes
HDMI Loopout	Yes
Bandwidth	1G network switch
Product Dimension	132x76x26mm
Package Dimension	174x118x76x87mm
Net Weight	230g
Gross Weight	660g
Consumption	Max. 4W
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

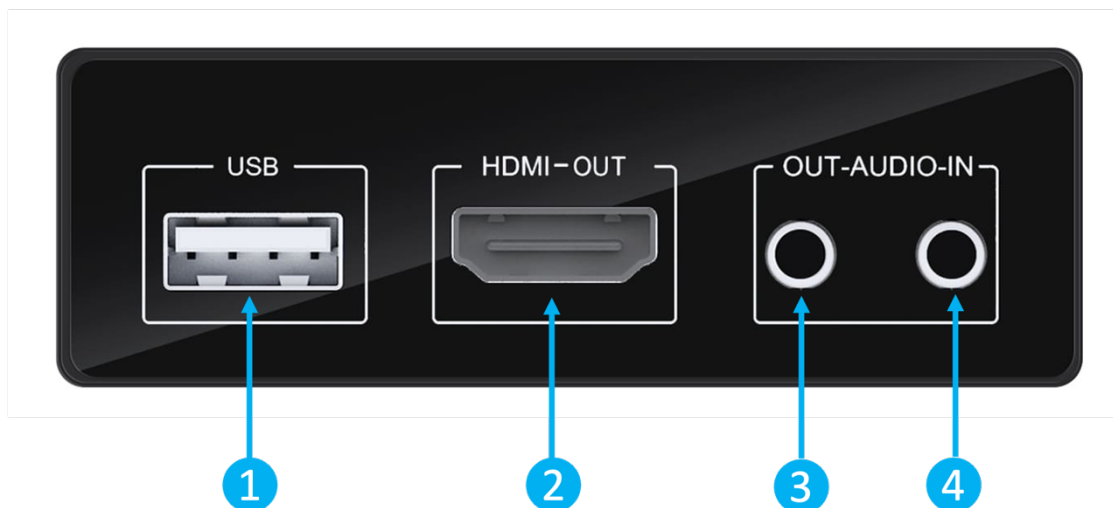
3. INTERFACES

3.1 TOP PANEL



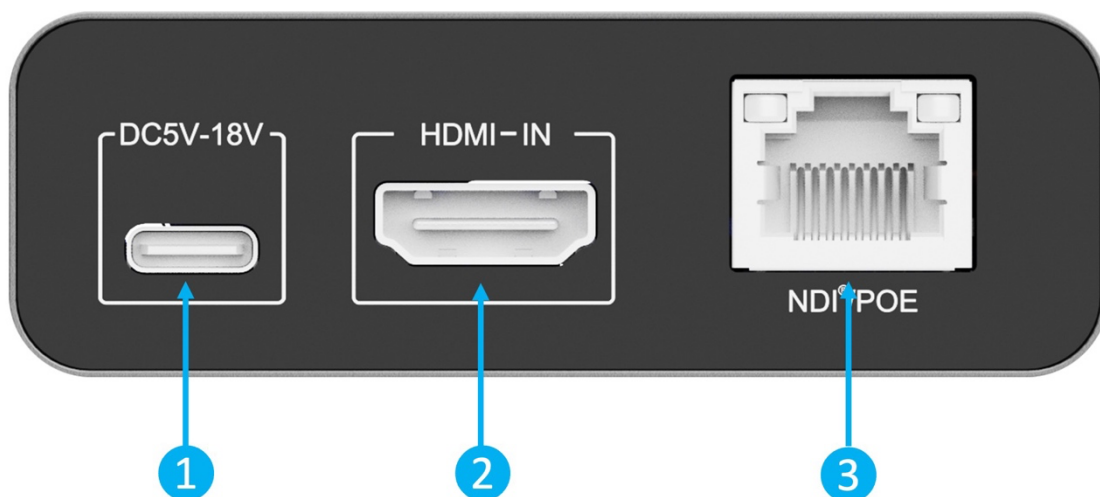
1	Tally Light	Green: Preview ON Red: Programming
2	RUN	Flashing Green: Working normally
3	POWER	Lighting Red: Power supply is normal
4	Screen	IP: Showing device IP address Type: ENCODE or DECODE Video: Showing video resolution Audio: Line IN or HDMI IN

3.2 RIGHT-SIDE PANEL



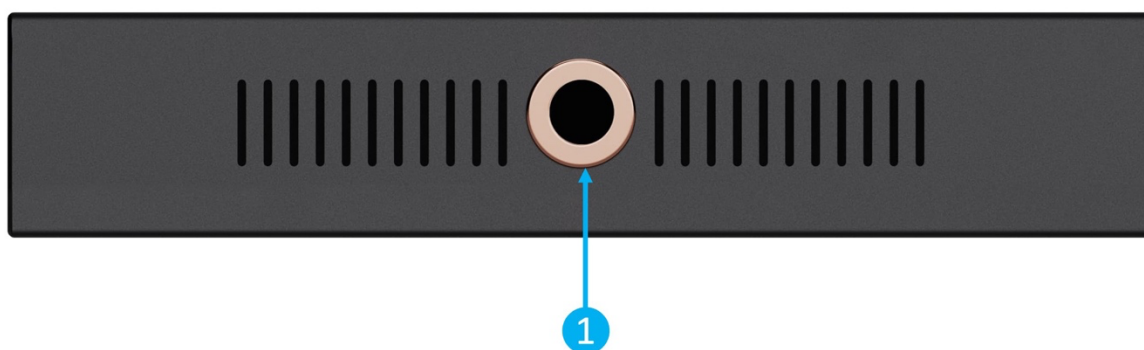
1	USB A	Connects USB to RS232 to control PTZ camera
2	HDMI-OUT	Encoder mode: HDMI loop-out Decoder mode: HDMI output
3	OUT-AUDIO	Encoder mode: No function Decoder mode: Audio output
4	AUDIO-IN	Encoder mode: Analog audio input Decoder mode: No function

3.3 LEFT-SIDE PANEL



1	DC5V-18V	USB Type C: power supply
2	HDMI-IN	Encoder mode: HDMI input Decoder mode: No function
3	NDI/POE	Encoder mode: NDI output, with PoE power supply Decoder mode: NDI input, with PoE power supply

3.4 BOTTOM-SIDE PANEL



1	1/4-20 screw hole	Used to connect accessories or camera.
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3.5 BACK-SIDE PANEL



1	RESET	How to reset if forget the username or password? Press the Reset Button in the bottom side of the iTrans NH1080 for 8 seconds and the device will reset to the factory with default account and password: Default Username: root Default Password: admin
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4. DIAGRAM

