

BN Series Deployable Optical Product



Description:

- Transmits Ultra-HD 4K2K@60/50 HDMI signals over long distances using fibre
- Supports 4:4:4 8-bit (594MHz) for full resolution high-quality video
- Supports HOR 4K2K@60/50 4:2:0 10-bit (384MHz) for extended colour depth options
- HDCP2.2 compliant, ensuring compatibility with protected content
- Extends HDMI signals up to 10km (6.25 miles) using single mode fibre optic cables
- Provides uncompressed video and audio, guaranteeing no quality loss during transmission
- Built-in link LED indicator confirms active connection status
- Supplied in a rugged wall-mountable housing, ideal for permanent or mobile installations

BN380H 4K HDR HDMI to Optical Converter



HDMI Input



Power Optical Output

Specifications

Technical	BN380H (TX)	BN380H (RX)
Role of Usage	Transmitter (TX)	Receiver (RX)
HDMI Compliance	HDMI 2.0a	
HDCP Compliance	HDCP2.2	
Video Bandwidth	Single-link 600MHz (18Gbps)	
Video Support	HDR4K2K@50/60 [4:2:0 10 bits]/ 4K2K@50/60 [4:4:4 8 bits]	
HDMI over Fibre	YES	
Audio Support	Surround sound [up tp 7.1ch]or stereo audio	
Equalisation	Auto	
Input TMDS signal	1.2 Volts [peak to peak]	
Input DOC signal	5 Volts [peak to peak]	
ESD protection	[1] Human body model - $\pm 19\text{kV}$ [air-gap discharge]& $\pm 12\text{kV}$ [contact discharge] [2] Core chipset - $\pm 8\text{kV}$	
PCB stack-up	6-layer board [impedance control - differential 1000; single 500	
Input	1 x HDMI	1 x Fibre
HDMI Connector	Type A [19-pin female]	
Mechanical		
Housing	Metal Enclosure	
Dimensions (LxWxH)	79mm x 72mm x 22mm	
Weight	195g	
Fixing	Wall-mounting flanged case with screws	
Power Supply	5V2A	Non-inverting
Power Consumption	Max 10W	
Operating Temp	0-55°C	
Storage Temp	-20~60°C	
Relative Humidity	20~90% RH [no condensation]	

Ordering Information

BN380H

4K HDR HDMI to Optical Converter

Bluebell

Bluebell Opticom Limited,
Unit 2 The Quadrant,
Howarth Rd,
Maidenhead,
Berks,
SL6 1AP, UK
Tel: +44 (0) 1628 510055,
Email: sales@bluebell.tv
Website: www.bluebell.tv

