

FEATURES

- Specifically developed for DVB-T2 COFDM with high dynamic range
- Dynamic gain control for optimal RF reception
- UHF input filter protects against <1 GHz interference from UHF communications and data transmissions
- Wide dynamic range and low noise
- High gain, flexibility, and frequency stability
- Ability to pair with up to eight downconverters with a BSI's single Real Freedom Receiver
- Supports a Real Freedom Data Transmitter with a single cable
- Compatible with BSI's Real Freedom Fiber system

General Description

The Real Freedom Downconverter is a key component of BSI's Real Freedom wireless camera system. It receives signals in the broadcast transmit band and down-converts them to a UHF signal of between 50 MHz and 850 MHz. The UHF signal is then fed to a receiver via a coaxial cable.

Available in a range of frequency bands, the downconverter allows the receive antenna to be remotely located away from the Real Freedom Receiver by up to 150 meters. Up to eight downconverters may be paired with a single receiver. The Real Freedom Downconverter is also fully compatible with BSI's Real Freedom fiber system for long distance remote operation to receive points in the network.



Plug and play connectivity with a Real Freedom Receiver enables access to the downconverter's advanced features. This includes the automatic configuration of receiver settings for optimal performance.

One of the most unique and beneficial features of the Real Freedom Downconverter is the ability to connect and power a Real Freedom Data Transmitter with a single cable via any downconverter within the system. This connectivity provides complete access to camera control from the receiver, allowing you to operate without compromise, locating components in optimal positions without deploying additional infrastructure or cable.

It offers some advanced and unique features with high gain, flexibility, and excellent frequency stability. Designed to be compact and fully weatherproof, the downconverter can be temporarily installed almost anywhere or permanently on the roof of an OB van. The downconverter comes with a removable pole clamp and 1/4"-20 fitting.

As the manufacturing source, experienced engineers and field technicians are available to quote you on the product needs. You'll find the best prices as all our Real Freedom products are manufactured in house.

For further details and pricing, contact the Broadcast Sports International representative in your region. For more information about the Real Freedom Downconverter, see https://www.bsintl.com/.

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TECHNICAL SPECIFICATIONS | Real Freedom Downconverter

DF		LO	
RF		Model No.	LO
RF Connector	N (F) 50 Ohm	IDC-1015	TBD
UHF Connector	BNC (F) 75 Ohm	IDC-2027 (2 GHz)	2834 MHz (High Side)
Noise Figure	<3 dB	IDC-3239 (3 GHz)	4030 MHz (High Side)
O1P3	>25 dBm	IDC-6475	TBD
OP1dB	>12 dBm		
A :		I/O and Power	
Gain		Model No.	Gain
Model No.	Gain	IDC-1015	TBD
IDC-1015	TBD	IDC-2027	26 to 44 dB (variable)
IDC-2027	26 to 44 dB (variable)	IDC-3239	26 to 44 dB (variable)
IDC-3239	26 to 44 dB (variable)	IDC-6475	Variable
IDC-6475	Variable		
		Compliance	
Downconverter Frequency Band Options		FCC	47 CFR 15B
Connectors	Via fiber connector or LEMO 0K 2-pin	CE	EN 60950, EN 301 489-28/1, EN 302 064-2
Aux DC Supply	9-36V DC (Required for >2km Fiber Length)		Standards
LED	Green - Power On Comms OK		
	Red - Fault No Comms		
Physical			
Size (WxHxD)	(2.95 x 5.47 x 1.14) in		
	(75 x 139 x 29) mm		
Weight	1.8 lb. / 0.82 kg		
Environmental	Weatherproof to IP67 14° to 149°F / -10° to + 65° C		
Mounting	Pole clamp with 1/4" x 20 fittings		



