



MERIDIAN

Transmitters

The Meridian wireless microwave broadcast system is designed for high quality, uncompressed zero delay HD and SD live transmission, where extremely low latency is essential.

Meridian transmitters have been specifically designed to be lightweight, compact and are available with either an Anton Bauer, V-lok battery mount, or without battery plates for mounting to a DV, Red or film camera.

Features

- Zero frame delay
- HDSDI, SDI, component, composite video input
- Extremely high quality 4:2:2 video
- 5.1 - 5.9GHz licence and licence exempt band
- Secure encrypted transmission in unicast mode
- Removable antennas
- Lightweight design
- Switch between Anton Bauer and V-Lok plates



Specifications

Latency:	<1 millisecond
Video Input:	SDI, HD-SDI, component, composite
Format:	SDI, PAL, NTSC. HD-SDI up to 1080i 60
Audio Output:	2 channels embedded or balanced analogue line level
Transmission Method:	Pixel Prioritisation Protocol
Time Code:	Embedded time code transported over link
RF Power Output:	Up to 100mW
Modulation:	OFDM
Bandwidth:	20MHz
Frequency:	5.1 - 5.9GHz
Security:	256 bit encryption AES
Firmware:	Upgradable via USB
Antennas:	4 x RP-TNC and 1 x RP-SMA (return data)
Control:	Configuration via LCD touch screen
Power:	6.5 - 18V DC 9 Watts on 4 pin Hirose or battery plate
Mounting:	Anton Bauer or V-Lok plates / no plates
Size:	Approx. 155mm x 145mm x 38mm
Temperature Range:	-5° to 50° C
Made in:	United Kingdom



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Broadcast Receiver

Meridian broadcast receivers use an array of 5 receive antennas to enhance performance and reliability. With a range of accessories developed for performance and flexibility, this receiver can be tailored to meet a variety of production requirements. The Meridian receiver is ideal for multi camera production, sporting arenas, stage and studio productions, and live-to-air broadcasts.

Standard Features

- Zero frame latency (<1 millisecond)
- 5.1-5.9GHz licence, and licence exempt band
- Extremely high quality 4:2:2 video transmission
- Embedded time code transport
- Manual or automatic channel select
- Switch between multiple cameras
- Secure encrypted transmission in unicast mode
- Simultaneous HD down-converter/scaler
- Signal strength meter on each antenna

Specifications

Latency:	<1 millisecond / 1 frame when Genlocked
Video Output:	SDI, HDSDI, component SD/HD, composite
Format:	SDI, PAL, NTSC. HDSDI up to 1080i
Audio Output:	Embedded and 2 channels balanced analogue line level
Down-converter:	Any HD format simultaneously converted to PAL or NTSC
Time Code:	Embedded time code transported over link
Transmission Method:	Pixel Prioritisation Protocol
Modulation:	OFDM
Bandwidth:	20MHz
Frequency:	5.1-5.9GHz
Antennas:	7 antenna array. 5 receive, 1 spectrum analyser, 1 return data
Security:	256 bit encryption AES in unicast
Firmware:	Upgradable via USB port
Range:	Up to 200 metres line of sight
Channel Select:	Automatic or manual
Control:	Configuration via LCD touch pad
Power:	6.5 -18V DC, 4 pin XLR, 9 watts
Antenna Ports:	N-type
Temperature Range:	-5° to 50° C
Mounting:	Light stand spigot or 1 unit rack mount
Made in:	United Kingdom

Options

- Daisy-chain multiple receivers to increase range and coverage
- Lens Iris control
- Tally light relay – preview/programme
- Built-in spectrum analyser
- Genlock



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Portable Receiver

Meridian portable receivers are designed to be lightweight, compact and are available with either an Anton Bauer, V-Lok battery mount or without battery plates.

The antenna configuration of the portable receivers allows the operator to utilise a range of different antennas to optimise performance in a variety of environments.

Features

- Zero frame latency (<1 millisecond)
- 5.1-5.9GHz licence, and licence exempt band
- Extremely high quality 4:2:2 video transmission
- Embedded time code transport
- Manual or automatic channel select
- Switch between multiple cameras
- Simultaneous HD downconverter/scaler
- Lightweight design
- Headphone monitoring

Specifications

Latency:	<1 millisecond
Video output:	SDI, HDSDI, component SD/HD, composite
Format:	SDI, PAL, NTSC, HDSDI up to 1080i
Audio output:	Embedded and 2 channels balanced line analogue level (simultaneous output) 2 headphone monitor outputs
Downconverter:	HD format converted to PAL or NTSC
Time Code:	Embedded time code transported over link
Transmission method:	Pixel Prioritisation Protocol
Modulation:	OFDM
Bandwidth:	20MHz
Frequency:	5.1GHz - 5.9GHz
Range:	Up to 60 metres with on-board antennas Up to 150 metres with hi-gain antennas
Antennas:	5 x RP-SMA connectors
Channel select:	Automatic or manual
Firmware:	Upgradable via USB port
Control:	Configuration via LCD touch screen
Power:	6.5 - 18V DC 9 Watts on 4 pin Hirose
Size:	Approx. 145mm x 155mm x 38mm
Temperature Range:	-5° to 50° C
Made in:	United Kingdom



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Full Telemetry System

The latest addition to the Meridian range offers a full telemetry solution using the manufacturer's original Remote Control Panel (RCP). This bi-directional system enables the RCP to display F-stop and Pedestal level and provides the operator with a very low latency Camera Control solution.

When used in conjunction with Meridian's zero delay video transmission system, the RCP operator will encounter no perceptible difference between hard-wired and wireless cameras. The Meridian camera control system operates in standalone mode or can be integrated into a multi-camera OB or studio production environment.

HIGHLIGHTS

- Complete wireless camera control solution
- Uses camera manufacturer's original RCP
- Bi-directional data shows full feedback display information including F-stop and Pedestal level
- Low-latency and long range
- High-speed transceivers operate bi-directionally
- Robust frequency-hopping/DTS



SPECIFICATIONS

Range:	Up to 1 mile
Latency:	<30 milliseconds
Frequency:	900 MHz US 2.4 GHz worldwide
Power:	Up to 1 watt (adjustable)
Battery Mount:	No Plate, V-lok or Anton Bauer
Operating Temperature:	-20°C to +45°C (-4°F to +113 °F)
Power Requirements:	120/240 V AC or 12 V DC
Weight:	Approx. 2 lb 5 oz (1.05 kg)
Remote:	8-pin



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